



A Marley Engineered Products Brand

*Quality Residential, Commercial & Industrial
Heating Products*

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Product Specifications may change without notice

The following logos are used throughout this catalog. Use this legend for clarification.



These products are U.L. listed by Underwriters Laboratory, ensuring that the products have passed Underwriters Laboratory's rigorous testing procedures for electrical products and have assigned the listing number required for specific electrical codes.



The CSA mark is recognized and accepted throughout Canada and the U.S., at federal, state, provincial, and municipal levels. It means that the product is certified for the Canadian and US markets, and is certified to the applicable Canadian and US standards.

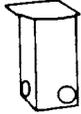


A product bearing the c ETL us Listed mark signifies that it was tested and meets the minimum requirements of prescribed product safety standards for US and Canada. Moreover, the mark indicates that the manufacturer's production site conforms to a range of compliance measures and is subject to periodic follow-up inspections to verify continued conformance.

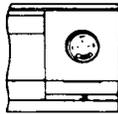


DIMENSIONS:

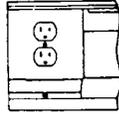
6-3/4" High, 2-7/8" Deep.
Length varies with model. See Table Below.



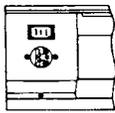
INSIDE CORNER SECTION



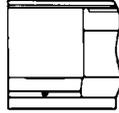
TA1A, TA2A



RA1



HCA



RSA

CATALOG NUMBER	UPC 0 98319	VOLTS	WATTS	LENGTH	SHIP WT. (LBS.)
2542W	73002 2	240/208	400/300	2'	5.2
25426W	73006 0	240/208	500/376	2'6"	6.3
2543W	73010 7	240/208	750/564	3'	7.5
2544W	73014 5	240/208	1000/752	4'	10
2545W	73018 3	240/208	1250/940	5'	11.5
2546W	73022 0	240/208	1500/1128	6'	14
2548W	73025 1	240/208	2000/1504	8'	18.5
25408W	72982 8	240/208	2500/1880	8'	18.5
2512W	73000 8	120	400	2'	5.2
25126W	73004 6	120	500	2'6"	6.3
2513W	73008 4	120	750	3'	7.5
2514W	73012 1	120	1000	4'	10
2515W	73016 9	120	1250	5'	11.5
2516W	73020 6	120	1500	6'	14
2502W	73001 5	208	400	2'	5.2
25026W	73005 3	208	500	2'6"	6.3
2503W	73009 1	208	750	3'	7.5
2504W	73013 8	208	1000	4'	10
2505W	73017 6	208	1250	5'	11.5
2506W	73002 1	208	1500	6'	14
2508W	73024 4	208	2000	8'	18.5
25008W	72981 1	208	2500	8'	18.5
2572W	73003 9	277/240/208	400/300/225	2'	5.2
25726W	73007 7	277/240/208	500/376/282	2'6"	6.3
2573W	73011 4	277/240/208	750/564/423	3'	7.5
2574W	73015 2	277/240/208	1000/752/564	4'	10
2575W	73019 0	277/240/208	1250/940/705	5'	11.5
2576W	73023 7	277/240/208	1500/1128/846	6'	14
2578W	73026 8	277/240/208	2000/1504/1128	8'	18.5
25708W	72983 5	277/240/208	2500/1880/1410	8'	18.5

High Altitude

Baseboard Heater (mounted above 7500 ft.), add suffix "H" to catalog number.

NOTE: Eight foot length baseboards must be ordered in multiples of two pieces for shipment.

NOTE: For Northern-white units, add NW suffix to catalog number. ex. (2544NW).

* Add NW suffix for Northern White.

APPLICATIONS:

For use in residential construction such as single family homes, apartments, modular or mobile homes as well as commercial, industrial and institutional construction as primary, secondary or supplemental heat for new construction or remodel.

FEATURES:

- Easily installed without disassembly.
- Lead wires allow quick field connection to either end of heater.
- Easy out knockouts at each end for convenient wiring.
- Chimney fin element design for maximum air circulation. Airflow is directed away from walls to help prevent wall soiling.
- UL listed for installation on wall at floor level with wall-to-wall carpeting. Heater stands unsupported during installation.
- Navajo White enamel finish retains attractive appearance and is compatible with all interior decors.
- Pre-notched mounting guide marks for fast and easy installation without disassembling the unit.
- Built-in cable clamp in both wiring compartments to restrain incoming cables without using additional hardware.
- Permanently attached copper grounding wire in each wiring compartment.

**Controls & Accessories for Heaters
(Installs in either Junction Box)**

CATALOG NUMBER	UPC 0 98319	DESCRIPTION	SHIP WT. (LBS.)
TA1AW	73041 1	SP Thermostat, rated 22A @ 120-277V	1
TA1TPAW	73042 8	Tamper resistant version of above.	1
TA2AW	73043 5	DP Thermostat, rated 22A @ 120-277V	1
TA2TPAW	73044 2	Tamper resistant version of above.	1
HCA2415/20W	73046 6	240V Load Transfer Switch, 20A	1
HCA1215/20W	73045 9	120V Load Transfer Switch, 20A	1
RSA1224	71480 0	120V/24V Transformer Relay, 25A	1
RSA2024	71485 5	208V/24V Transformer Relay, 25A	1
RSA2424	71490 9	240V/24V Transformer Relay, 25A	1
RSA2724	71495 4	277V/24V Transformer Relay, 22A	1
RA1W	73047 3	120V Duplex Receptacle	1
DSW2W	73049 7	Double Pole Power On / Off - rated 20A @ 120-277V	1
PR24	71367 4	Single Pole Power Relay, 24VControl rated 30A @ 120-240V, 23A @ 277V.	1
PR120	71368 1	Same as above except 120V Control.	1
ICAW	73050 3	Inside Corner	1
RA1COMPW	73048 0	Duplex Receptacle Cover only - carton of 10	1

Filler Sections for 2500 Heaters

CATALOG NUMBER	UPC 0-98319	DESCRIPTION	SHIP WT. (LBS.)
FS12	73150 0	1 Ft. Filler Section	2
FS24	73151 7	2 Ft. Filler Section	4
FS36	73152 4	3 Ft. Filler Section	6
FS48	73153 1	4 Ft. Filler Section	8
FSJ2	73154 8	2-Inch Joiner Strip	1/2

NOTE: For Northern-white units, add NW suffix to catalog number ex. (2544NW). See Page 4 for blank sections

ELECTRIC HYDRONIC BASEBOARD HEATERS

HBB



NAVAJO WHITE FINISH

APPLICATIONS:

The HBB Series Heaters are ideal whether for new home construction, remodeling or room additions. All it takes is simple mounting and the electrical hookup - no basement boiler, no duct work, chimney, pump or plumbing. Just clean, quiet, comfortable heat, when and where it's needed.

FEATURES:

A sheathed electric heating element is totally immersed in a heat-transfer liquid and sealed in a heater-length copper tube (Figure 1). The large diameter reservoir maximizes the volume of heat storage fluid to prolong the thermal constant of the entire heater. All available heat is delivered into the room with strong convection flow. Gentle heat keeps radiating even after the thermostat turns off because of the hydronic elements retention qualities.

GO-ANYWHERE DESIGN - The entire unit mounts flush to any wall and flat on any floor — wood, carpet or tile. The trim, three-inch thick functional design and low operating temperatures allow carpeting to be installed up to and around the baseboard. Efficient air flow is achieved even if the unit is mounted above the floor.

QUALITY INSIDE AND OUT - Heavy-duty welded steel louvered grilles discourage insertion of foreign objects and direct heat outward into the room. Designer-style junction boxes are made of high-strength Lexan® to resist scratches and wear marks. Corrosion resistant aluminum fins are pressure-fitted to copper tubing to assure rapid heat transfer and air flow. Built-in cut-off automatically shuts down the heater should any overheating occur.

CATALOG NUMBER	UPC 6 85360	VOLTS	WATTS	AMPS	LENGTH	SHIP WT. (LBS.)
HBB500	03577 2	120	500	4.2	28 inches	10
HBB508	03580 2	208	500	2.4		
HBB504	03578 9	240/208	500/375	2.1/1.8	34 inches	12
HBB750	03581 9	120	750	6.3		
HBB758	03584 0	208	750	3.6	46 inches	15
HBB754	03582 6	240/208	750/563	3.1/2.7		
HBB1000	03562 8	120	1000	8.3	58 inches	19
HBB1008	03565 9	208	1000	4.8		
HBB1004	03563 5	240/208	1000/750	4.2/3.6	70 inches	22
HBB1250	03566 6	120	1250	10.4		
HBB1258	03569 7	208	1250	6	94 inches	30
HBB1254	03567 3	240/208	1250/938	5.2/4.5		
HBB1500	03570 3	120	1500	12.5	70 inches	22
HBB1508	03573 4	208	1500	7.2		
HBB1504	03571 0	240/208	1500/1125	6.3/5.8	94 inches	30
HBB2008	03576 5	208	2000	9.6		
HBB2004	03574 1	240/208	2000/1500	8.3/7.2		

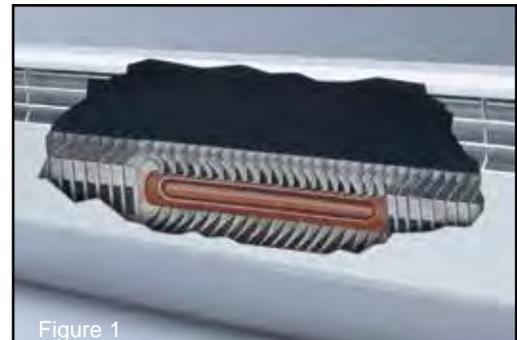


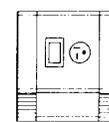
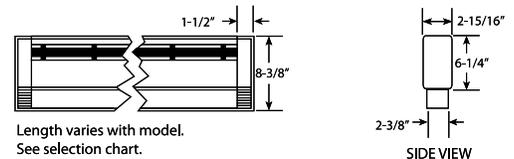
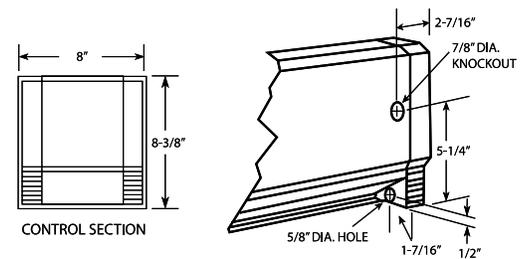
Figure 1



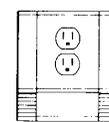
ACCESSORIES & CONTROLS (optional)

CATALOG NUMBER	UPC 6 85360	DESCRIPTION	SHIP WT. (LBS.)
HBBT1	03557 4	25 amp @ 120-277 VAC Single Pole Thermostat Snap Action Type Field Installed in Junction Box	1
HBBT2	03559 8	25 amp @ 120-277 VAC Double Pole Thermostat Snap Action Type Field Installed in Junction Box	1
HBBT1TP	03558 1	Same as Model HBBT1 except Tamper resistant	1
HBBT2TP	03560 4	Same as Model HBBT2 except Tamper resistant	1
HBBAC*	03538 3	Air Conditioner Outlet Section, 20 amps @ 208/240 VAC	2
HBBDR	03542 0	Duplex Receptacle Section, 15 amps @ 120 VAC	2
HBBDSDR120	14797 0	2 Pole Power On / Off /120v receptacle	3
HBBWS	03561 1	8" Blank Wiring Section	1
HBBLVR0*	03547 5	Low Voltage Relay Control Section, 25 amps @ 120 VAC	3
HBBLVR8*	03550 5	Low Voltage Relay Control Section, 25 amps @ 208 VAC	3
HBBLVR4*	03548 2	Low Voltage Relay Control Section, 25 amps @ 240 VAC	3
HBBCDS2	03539 0	2 Pole Power On / Off Switch Section	2
CBDBS2*	01453 1	2' Blank Section	6
CBDBS3*	01454 8	3' Blank Section	8
CBDBS4*	01455 5	4' Blank Section	11
CBDBS5*	01456 2	5' Blank Section	14
CBDBS6*	01457 9	6' Blank Section	16
CBDBS8*	01458 6	8' Blank Section	22
CBDCIC*	01460 9	Inside Corner	1
CBDCOC*	01461 6	Outside Corner	1

* HBBAC - HBBDR - HBBLVR - HBBWS accessories add 8" to baseboard length.



*HBBAC



*HBBDR

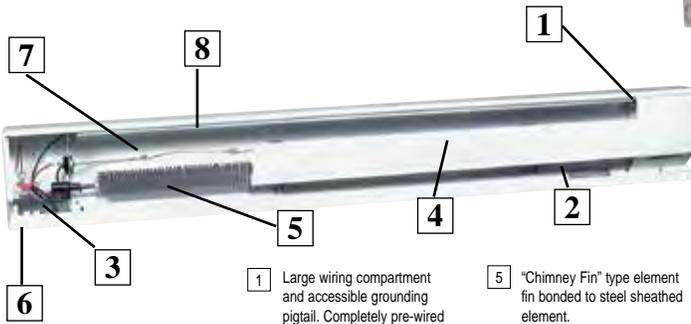


*HBBLVR

*Add 8" to length of installation

COMMERCIAL BASEBOARD HEATERS

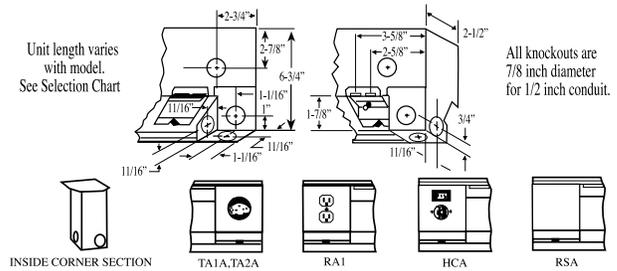
BKOC



- 1 Large wiring compartment and accessible grounding pigtail. Completely pre-wired at both ends.
- 2 Built-in Wireway.
- 3 Built-in Cable Clamps.
- 4 18 ga. Front Cover and 18 ga. Front Cover support brackets.
- 5 "Chimney Fin" type element fin bonded to steel sheathed element.
- 6 "Easy-Out" knockouts.
- 7 Element suspended such that it can expand up to 3/8" in length.
- 8 Navajo White enamel finish.



DIMENSIONS
6-3/4" High, 2-7/8" Deep.
Length varies with model. See Table Below.



APPLICATIONS:

The BKOC with its complete line of accessories and controls, can solve the space heating needs of virtually any type of commercial structure. Individual room control allows you to heat — or not to heat — each room separately for utmost energy savings. Select exact temperatures, room by room.

CATALOG NUMBER	UPC 6 85360	VOLTS	WATTS	AMPS	LGTH.	SHIP WT. (LBS.)
BKOC25126W	01009 0	120	500	4.2	2'6"	7.8
BKOC25026W	00985 8	208	500	2.4		
BKOC25426W	01036 6	240/208	500/376	2.1/1.8		
BKOC25726W	01067 0	277/240/208	500/376/282	1.8/1.6/1.4	3'	9.0
BKOC2513W	01013 7	120	750	6.5		
BKOC2503W	00989 6	208	750	3.6		
BKOC2543W	01040 3	240/208	750/564	3.1/2.7	4'	11.5
BKOC2573W	01071 7	277/240/208	750/564/423	2.7/2.4/2.0		
BKOC2514W	01017 5	120	1000	8.3		
BKOC2504W	00993 3	208	1000	4.8	5'	13.0
BKOC2544W	01044 1	240/208	1000/752	4.2/3.6		
BKOC2574W	01075 5	277/240/208	1000/752/564	3.6/3.1/2.7		
BKOC2515W	01021 2	120	1250	10.4	6'	15.5
BKOC2505W	00997 1	208	1250	6.0		
BKOC2545W	01048 9	240/208	1250/940	5.2/4.5		
BKOC2575W	01079 3	277/240/208	1250/940/705	4.5/3.9/3.4	8'	20
BKOC2516W	01025 0	120	1500	12.6		
BKOC2506W	01001 4	208	1500	7.2		
BKOC2546W	01052 6	240/208	1500/1128	6.3/5.4	8'	20
BKOC2576W	01083 0	277/240/208	1500/1128/846	5.4/4.7/4.1		
BKOC2508W	01005 2	208	2000	9.6		
BKOC2548W	01056 4	240/208	2000/1504	8.3/7.2	8'	20
BKOC2578W	01087 8	277/240/208	2000/1504/1128	7.2/6.3/5.4		
BKOC25008W	00981 0	208	2500	12.0		
BKOC25408W	01032 8	240/208	2500/1880	10.4/8.7	8'	20
BKOC25708W	01063 2	277/240/208	2500/1880/1410	9.0/7.5/6.8		

NOTE: High Altitude Baseboard Heater (above 7500') add suffix "H" to catalog number.
NOTE: Eight foot length baseboards must be ordered in multiples of two pieces for shipment.

FEATURES:

COMMERCIAL GRADE CONSTRUCTION - 18-gauge front cover brackets allow heater to withstand rigors of commercial applications.

EASY INSTALLATION - Can be installed without disassembly, using pre-notched guide marks in rear of cabinet.

BUILT-IN WIREWAY - Facilitates end-to-end installation of continuous-run heaters.

EFFICIENT HEAT DISSIPATION - "Chimney fin" type element designed for maximum air circulation. Air flow is directed away from walls.

STEEL SHEATHED ELEMENT - Heating element design combines the durability of a steel tubular heater with the excellent heat transfer characteristics of aluminum fins.

ROOMY JUNCTION BOX - Large, identical, pre-wired junction boxes at each end are provided with knockouts in the rear, bottom, inside and outside junction box walls. One screw allows easy access to wiring compartment.

BKO BLANK SECTIONS

CATALOG NUMBER	UPC 6 85360	DESCRIPTION	SHIP WT. (LBS.)
BKOCBDA2W	00931 5	2'6" Blank Section	4
BKOCBDA3W	00933 9	3' Blank Section	5
BKOCBDA4W	00935 3	4' Blank Section	7
BKOCBDA5W	00937 7	5' Blank Section	9
BKOCBDA6W	00939 1	6' Blank Section	11
BKOCBDA8W	00941 4	8' Blank Section	14

See page 2 for optional controls and accessories.

HEAVY-DUTY COMMERCIAL BASEBOARD HEATERS

OBD



NAVAJO WHITE FINISH

APPLICATIONS:

OBD Series heavy-duty baseboard, with its complete line of accessories and controls, can solve the space heating needs of virtually any type commercial structure. Individual room control allows you to heat each room separately for utmost energy savings.

FEATURES:

CONSTRUCTION - This heavy-duty baseboard is designed specifically for commercial use. The front cover is made of 16 gauge cold rolled steel. A built-in wireway runs the length of each heater.

ELEMENT - Heating element design combines the durability of a steel tubular heater with the excellent heat transfer characteristics of aluminum fins.

JUNCTION BOXES - Identical prewired junction boxes at each end are large and roomy to work in. Access to the junction box can be made from either side of the heater. Knockouts are provided in the backside or the bottom of each heater end.

Heavy-duty welded steel louvered grilles discourage insertion of foreign objects and direct heat outward into the room. The junction boxes are made of high-strength Lexan® to resist scratches and wear marks.

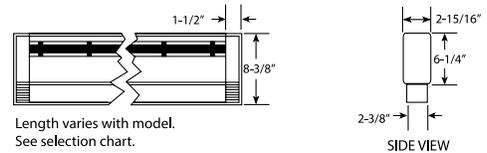
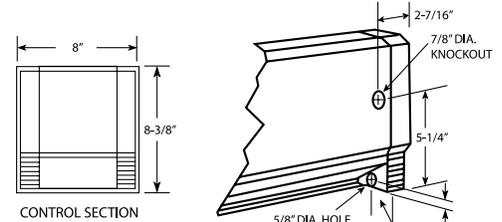


CATALOG NUMBER	UPC 6 85360	VOLTS	WATTS	AMPS	BTU/HR.	LGTH.	SHIP WT. (LBS.)
OBD500	04813 0	120	500	4.2	1706	28"	8
OBD508	04816 1	208	500	2.4			
OBD504	04814 7	240/208	500/375	2.1/1.8			
OBD507	04815 4	277/240/208	500/375/282	1.8/1.6/1.4	2560	34"	10
OBD750	04817 8	120	750	6.3			
OBD758	04820 8	208	750	3.6			
OBD754	04818 5	240/208	750/562	3.1/2.7	3413	46"	13
OBD757	04819 2	277/240/208	750/562/422	2.7/2.3/2.0			
OBD1000	04798 0	120	1000	8.3			
OBD1008	04801 7	208	1000	4.8	4265	58"	16
OBD1004	04799 7	240/208	1000/750	4.2/3.6			
OBD1007	04800 0	277/240/208	1000/750/562	3.6/3.1/2.7			
OBD1250	04802 4	120	1250	10.4	5120	70"	20
OBD1258	04805 5	208	1250	6			
OBD1254	04803 1	240/208	1250/938	5.2/4.5			
OBD1257	04804 8	277/240/208	1250/938/704	4.5/3.9/3.4	6825	94"	27
OBD1500	04806 2	120	1500	12.5			
OBD1508	04809 3	208	1500	7.2			
OBD1504	04807 9	240/208	1500/1125	6.4/5.4	7.2/6.3/5.4		
OBD1507	04808 6	277/240/208	1500/1125/844	5.4/4.7/4.1			
OBD2008	04812 3	208	2000	9.6			
OBD2004	04810 9	240/208	2000/1500	8.3/7.2			
OBD2007	04811 6	277/240/208	2000/1500/1125	7.2/6.3/5.4			

ACCESSORIES & CONTROLS (optional)

CATALOG NUMBER	UPC 6 85360	DESCRIPTION	SHIP WT. (LBS.)
HBBT1	03557 4	25 amp @ 120-277 VAC Single Pole Thermostat Snap Action Type Field Installed in Junction Box	1
HBBT2	03559 8	25 amp @ 120-277 VAC Double Pole Thermostat Snap Action Type Field Installed in Junction Box	1
HBBT1TP	03558 1	Same as Model HBBT1 except Tamper resistant	1
HBBT2TP	03560 4	Same as Model HBBT2 except Tamper resistant	1
HBBAC*	03538 3	Air Conditioner Outlet Section, 20 amps @ 208/240 VAC	2
HBBDR	03542 0	Duplex Receptacle Section, 15 amps @ 120 VAC	2
HBBDSDR120	14797 0	2 Pole Power On / Off /120v receptacle	3
HBBWS	03561 1	8" Blank Wiring Section	1
HBLVLR0*	03547 5	Low Voltage Relay Control Section, 25 amps @ 120 VAC	3
HBLVLR8*	03550 5	Low Voltage Relay Control Section, 25 amps @ 208 VAC	3
HBLVLR4*	03548 2	Low Voltage Relay Control Section, 25 amps @ 240 VAC	3
HBBCDS2	03539 0	2 Pole Power On / Off Switch Section	2
CBDBS2*	01453 1	2' Blank Section	6
CBDBS3*	01454 8	3' Blank Section	8
CBDBS4*	01455 5	4' Blank Section	11
CBDBS5*	01456 2	5' Blank Section	14
CBDBS6*	01457 9	6' Blank Section	16
CBDBS8*	01458 6	8' Blank Section	22
CBDCIC*	01460 9	Inside Corner	1
CBDCOC*	01461 6	Outside Corner	1

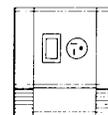
* HBBAC - HBBDR - HBLVLR - HBBWS accessories add 8" to baseboard length.



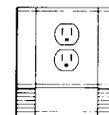
HBBT1 & HBBT2



HBB1TP & HBB2TP



*HBBAC



*HBBDR



*HBLVLR

*Add 8" to length of installation

PROGRAMMABLE WALL HEATER

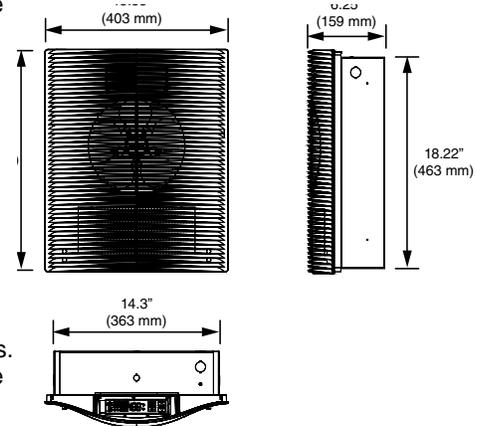
SSARWH ARCHITECTURAL SMARTSERIES®

APPLICATIONS:

Unique styling and a programmable touch screen built-in thermostat make the SmartSeries® heaters ideal for corporate offices, boardrooms, galleries, libraries, museums, restaurants and hotels. Also, adaptable to multiple installations in larger or odd shaped rooms.

FEATURES:

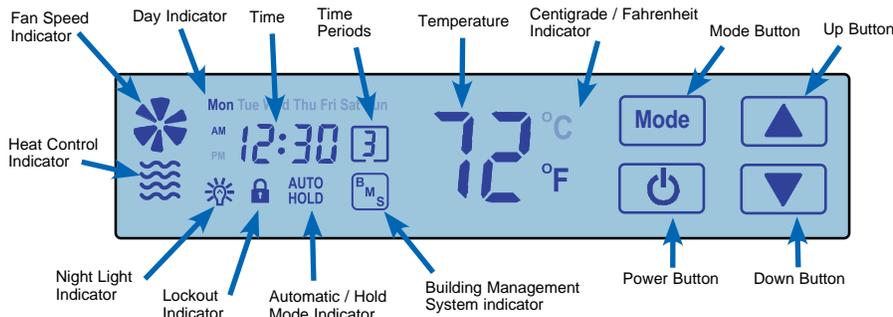
- Save Energy with Zone Heating:
 - Heat where you are, not where you aren't (Instant heat where you want it, when you want it). Save energy by heating only the areas you occupy.
 - Maintains heat within 1.5 degree of set temperature (as compared to five degrees with conventional bi-metal thermostats).
- Ready, Set, Go Programming SmartSeries® Digital Thermostat:
 - 5 / 2 day programmability (5 weekdays and 2 day weekend, 4 program periods per day).
 - Provides only the amount of heat needed at any given moment by continually calculating heat output and fan speed of the proportional difference between room temperature and the set point.
 - Hold function maintains constant set temperature. Used for freeze protection or vacation setting for when you are not there.
 - Connects to Building Management Systems for optimum control.
- Control your Comfort with Easy-to-use customizable control with LCD screen:
 - Simple touch screen navigation and programming.
 - Catch a chill? The remote control allows you to make adjustments anywhere in the room.
 - Lockout Feature – Securely maintain comfort levels.
- Save Time and Money on Installation:
 - 2 piece construction – Includes back box, Element/Fan Deck/Grille combined.
 - Quick set up – 'right out of the box'.
 - Fits recessed between standard studs walls.
 - No ducting or plumbing needed means no heat loss before the heat enters the room.
- Dramatic Styling, Innovative Technology:
 - In a class above the competition – No other heater in the market comes close to the unique styling of the SmartSeries®.
 - The best in contemporary design matched with the latest Smart technologies.
 - Touch-activated controls offer an ideal combination of sleek styling and ease of operation.
 - Elegant and refined but built to last – The durable powder coated aluminum grille has a distinct flavor that translates boldly and beautifully to any décor.
 - No exposed seams or screws – Seamlessly finished lines and contours creates an immediate impression of quality and refinement.
 - On / Off switch.



CATALOG NUMBER	UPC	VOLTS	WATTS	AMPS	BTU/HR.
SSARWH1802	6 85360 15684 2	120	540 - 1800	15	6,142
SSARWH4808	6 85360 15676 7	208	1800 - 4800	23.1	16,378
SSARWH4804	6 85360 15677 4	240	1800 - 4800	20.0	16,378
SSARWH4807	6 85360 15680 4	277	1800 - 4800	17.3	16,378

Note: Standard grille color is Northern White. Add W (Navajo White), AL (Aluminum), or BZ (Bronze) suffix to catalog number. Example: SSAR1802AL

THERMOSTAT DISPLAY



HEATER REMOTE

An easy to use remote control is included to provide convenient heat and power adjustment from up to 12 feet away. Heater must be in direct line of sight to operate correctly. Unit can be controlled with or without remote control.



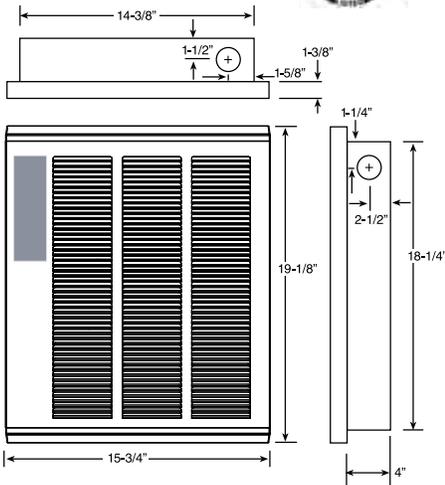
MOUNTING LIMITATIONS

Do not install heater closer than 12" to the floor, 12" to an adjacent wall, 36" to the ceiling.

Do not install heater behind towel rack or door, upside down or sideways, in the floor, in the ceiling, or in closets.

HIGH OUTPUT WALL HEATER

SSHOWH COMMERCIAL SMARTSERIES®



APPLICATIONS:

Fast heat response and programmable touch screen built-in thermostat make the SmartSeries® heaters ideal for restaurants, hotels, conference rooms, atrium and much more. Also, adaptable to multiple installations in larger or odd shaped rooms.

FEATURES:

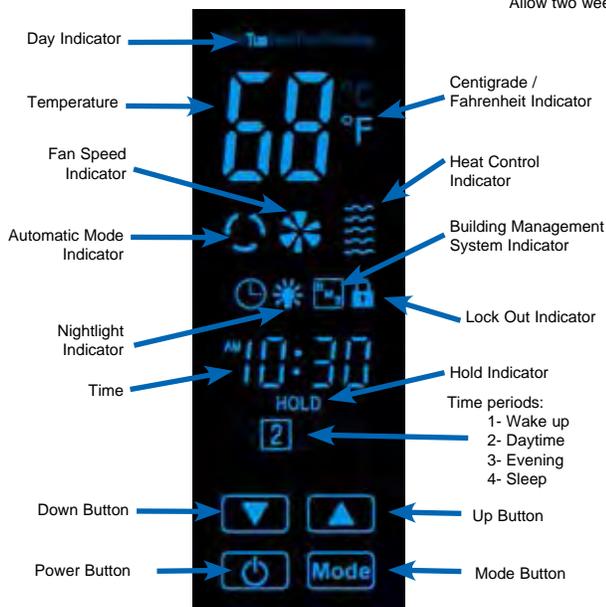
- Heat where you are, not where you aren't. Instant response when you want it. Save energy by heating only the areas you occupy.
- Precise heat within 1.5 degrees of set temperature (as compared to five degrees with conventional bi-metal thermostats).
- 5 / 2 day programmability (5 weekdays and 2 day weekend, 4 program periods per day).
- SmartSeries® provides only the amount of heat needed at any given moment by continually calculating heat output and fan speed of the proportional difference between room temperature and the set temperature.
- Hold function maintains constant set temperature which can be used for freeze protection or vacation setting for when you are not there.
- BMS compatible – Connects to Building Management Systems for optimum control.
- Lockout Feature – Securely maintain comfort levels.
- Remote control to make adjustments anywhere in the room – Catch a chill? Raise the temperature from the comfort of your bed or easy chair.
- Quick set up – 'right out of the box' - 3 piece construction – Includes back box, Element/Fan Deck and Grille.
- Fits recessed between standard studs walls or use with optional surface mounting frame (ideal for block or plaster walls).
- On / Off switch.
- No ducting or plumbing needed means no heat loss before the heat enters the room.

CATALOG NUMBER	UPC	VOLTS	WATTS	AMPS	BTU/HR.
SSHOWH4008	6 85360 15670 5	208	1800 - 4000	8.7 - 19.2	13,650
SSHOWH4004	6 85360 15672 9	240	1800 - 4000	7.5 - 16.7	13,650
SSHOWH4007	6 85360 15673 6	277	1800 - 4000	6.5 - 14.4	13,650
SURFACE MOUNTING FRAMES					
HTWHSM	6 85360 15545 6	Surface Mounting Frame 15-3/8" W x 19-3/16" H x 3-3/4" D			
HTWS1	6 85360 15548 7	1" Semi-Recess Mounting Frame 15-3/8" W x 19-3/16" H x 1" D			
HTWS2	6 85360 15551 7	2" Semi-Recess Mounting Frame 15-3/8" W x 19-3/16" H x 2" D			

Note: Standard grille color is Northern White. Add NV (Navajo White) or SB (Stat Bronze) suffix to catalog number. Example: SSHO4008NV

Allow two weeks delivery for models with special color. See Color Selection Chart for custom colors.

THERMOSTAT DISPLAY



HEATER REMOTE

An easy to use remote control is included to provide convenient heat and power adjustment from up to 12 feet away. Heater must be in direct line of sight to operate correctly. Unit can be controlled with or without remote control.



MOUNTING LIMITATIONS

Do not install heater closer than 12" to the floor, 12" to an adjacent wall, 36" to the ceiling. Do not install heater behind towel rack or door, upside down or sideways, in the floor, in the ceiling, or in closets.

PROGRAMMABLE WALL HEATER

HT RESIDENTIAL SMARTSERIES®

APPLICATIONS:

Super quiet, fast heat and programmable touch screen built-in thermostat make the Smart Series® heaters ideal for dens, bedrooms, basements, converted attics, large bathrooms, offices, workshops and similar areas. Also, adaptable to multiple installations in larger or odd shaped rooms.

FEATURES:

- Heater automatically adjusts wattage output and blower speed resulting in whisper quiet operation for optimum comfort.
- Heating element is heavy duty non-glowing steel fins brazed to steel sheathed tubular elements in a grid pattern that covers the entire discharge area.
- Built-in fan delay operates when unit is turned off after heating to prolong element life.
- 5 / 2 day electronic programmable built-in thermostat adaptable to fit any life style while providing energy savings and precise temperature performance.
- Easy to use LED touch screen operation.
- Convenient remote control included.
- Contemporary, clean design with night light feature complements any decor.
- Designed for easy installation. Heater is mounted prior to wiring. Both hands are free to make field connections in roomy compartment.
- This heater is designed for installation in 2 x 4 or larger wall sections using the wall box provided.
- The heater may be wired with standard building wire (60°C). Refer to specification chart for correct supply voltage and wire size.



Whisper Quiet



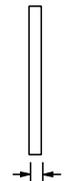
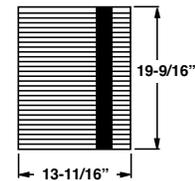
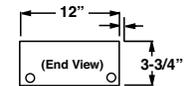
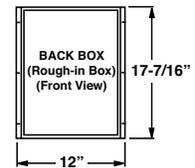
Fast Response Heating



5 Year Element Warranty



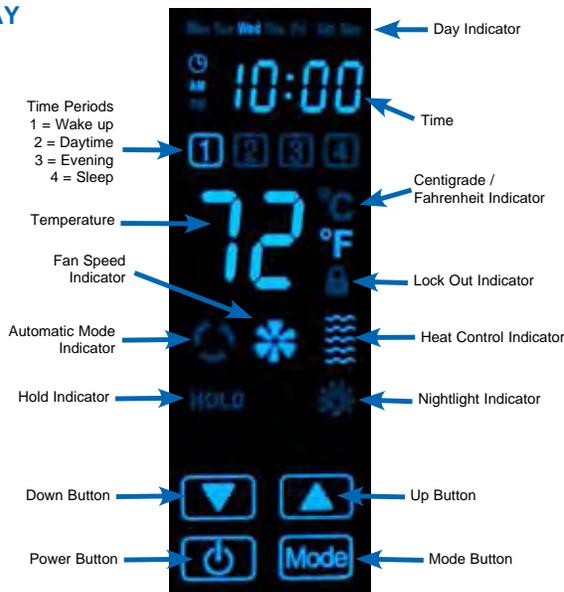
Proportional Wattage Adjustment Heats up to 250 ft²



CATALOG NUMBER	UPC	VOLTS	WATTS	AMPS	BTU/HR.	WIRE SIZE	COLOR
HT2024SS	6 85360 15351 3	240	1.0 - 8.3	250 - 2000	853 - 6826	14 AWG	Gray
HT1502SS	6 85360 15350 6	120	1.6 - 12.5	200 - 1500	682 - 5120	12 AWG	Gray
HT2024SSNW	6 85360 15854 9	240	1.0 - 8.3	250 - 2000	853 - 6826	14 AWG	Northern White
HT1502SSNW	6 85360 15852 5	120	1.6 - 12.5	200 - 1500	682 - 5120	12 AWG	Northern White

SURFACE MOUNTING FRAMES	DESCRIPTION
SMHTSSNW	6 85360 15631 6 Surface Mounting Frame, 14-5/8"W X 20-1/4"H X 3-3/4"D
SMHTSSBL	6 85360 15630 9 Surface Mounting Frame, 14-5/8"W X 20-1/4"H X 3-3/4"D

THERMOSTAT DISPLAY



HEATER REMOTE

An easy to use remote control is included to provide convenient heat and power adjustment from up to 12 feet away. Heater must be in direct line of sight to operate correctly. Unit can be controlled with or without remote control.



MOUNTING LIMITATIONS

Do not install heater closer than 12" to the floor, 12" to an adjacent wall, 36" to the ceiling.

Do not install heater behind towel rack or door, upside down or sideways, in the floor, in the ceiling, or in closets.

ARCHITECTURAL HEAVY-DUTY WALL HEATERS

MECHANICAL ARTISAN™

APPLICATIONS:

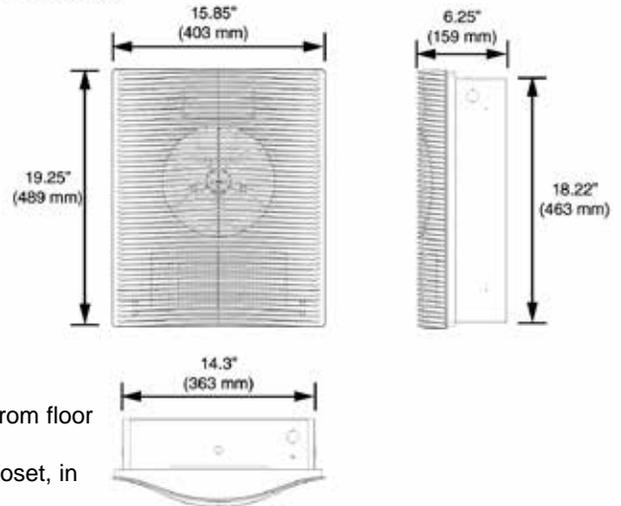
Berko's high-capacity, heavy-duty fan forced wall heaters are designed for use almost anywhere in commercial or industrial areas requiring high capacity and quick recovery. They perform exceptionally well in such applications as restaurants, hotels, conference rooms, atrium, residential and much more.

FEATURES:

- Save time and money on installation.
- The best in contemporary design.
- Two piece construction; Includes back box, Element/Fan Deck/Grille.
- Built-in tamper resistant thermostat.
- Excellent for zone heating - heat where you are, not where you aren't.
- Recess or surface mounting to wall.
- Ability to reduce wattage during installation.
- Steel finned metal sheath electric heating element provides long service life.
- Seamless finish lines and contours, an immediate impression of quality and refinement.
- Rugged heavy duty aluminum die cast grille, refined but built to last.
- Four colors to choose from: Bronze, Navajo White, Aluminum, and Northern White.



DIMENSIONS



MOUNTING LIMITATIONS

1. For wall mounting - Do not install back box closer than 8 inches from floor or adjacent wall.
2. Do not install heater behind towel rack, behind door, in floor, in closet, in ceiling or where air flow may be obstructed.

All controls are concealed behind the front cover making them essentially tamper proof. They will accommodate pneumatic/electric or low-voltage controls commonly used with computerized energy management systems.

CATALOG NUMBER	UPC	VOLTS	PH.	WATTS	BTU/HR.	AMPS	SHIP WT. (LBS.)
MCSSAR1802	6 85360 16105 1	120	1	1800 / 900	6,142	15.0	26
MCSSAR4808	6 85360 16111 2	208	1	4000/2000	13,640	19.2	26
MCSSAR4804	6 85360 16109 9	240	1	4800/2400	16,368	20.0	26
MCSSAR4807	6 85360 16107 5	277	1	4800/2400	16,368	117.3	26

Note: Standard grille color is Northern White. Add BZ (Bronze), W (Navajo White), or AL (Aluminum) suffix to catalog number.

Example: MCSSAR4808BZ.

Allow two weeks delivery for models with special color. See Color Selection Chart for custom colors

ACCESSORIES (optional)

CATALOG NUMBER	UPC	DESCRIPTION
HTWHSM	6 85360 15545 6	Surface Mounting Frame 16-1/4" W x 19-3/8" H x 3-7/8" D
HTWHS1	6 85360 15548 7	1" Semi-Recess Mounting Frame 16-1/4" W x 19-3/8" H x 1" D
HTWHS2	6 85360 15551 7	2" Semi-Recess Mounting Frame 16-1/4" W x 19-3/8" H x 2" D
MCAR2	6 85360 16160 0	24V Time-delay relay rated 30A @ 120 - 277V
MCAR12	6 85360 16159 4	120V Time-delay relay rated 30A @ 120 - 277V

ARCHITECTURAL HEAVY-DUTY WALL HEATERS

FRC

APPLICATIONS:

Berko's high-capacity, heavy-duty fan forced wall heaters are designed for use almost anywhere in commercial or industrial areas requiring high capacity and quick recovery. They perform exceptionally well in such applications as commercial buildings, entryways, hotels, offices, restaurants and stores.

FEATURES:

- Contemporary bar-stock grille designed to provide optimized airflow.
- Voltage selections: 120, 208, 240, 277 or 347.
- Wattage selections: 1,500-4,800.
- Thermostat range: 40° to 90°F.
- Compatibility with the energy management systems through an optional relay.
- Fan delay switch - energizes fan motor only after elements are heated, which prevents discharge of unheated air.
- Manual reset thermal overload protector disconnects power in the event of overheating due to accidental blockage.
- All units have a permanently lubricated totally enclosed fan motor, which creates long life and low maintenance, and gently distributes warmth throughout the area.
- 1 year workmanship warranty, 5 year warranty on element.



Thermostat range	40° to 90°F
Air movement	100 CFM

CATALOG NUMBER	UPC NUMBER	VOLTS	PH.	WATTS	BTU/HR.	AMPS	CFM	SHIP WT. (LBS.)
FRC1512F	6 85360 16187 7	120	1	1500	5120	12.5	100	25
FRC1812F	6 85360 16189 1	120	1	1800	6142	15	100	25
FRC4020F	6 85360 16211 9	208	1	4000/2000	13650 / 682	19.2 / 9.6	100	25
FRC4024F	6 85360 16199 0	240	1	4000/2000	13650 / 6825	16.7/8.3	100	25
		208		3000/1500	10235 / 5120	14.4 / 7.2		
FRC4027F	6 85360 16207 2	277	1	4000/2000	13650 / 6825	14.4 / 7.2	100	25
		240		3000/1500	10235 / 5120	12.5/6.3		
FRC4307F	6 85360 16475 5	277	1	3000/1500	10235 / 5120	10.8 / 5.4	100	25
FRC4303F	6 85360 16403 8	347	1	3000	10235	8.6	100	25
FRC4306F	6 85360 16406 9	600	1	3000	10235	5	100	25
FRC4506FC	6 85360 16414 4	600	1	4800	16380	8	100	25
FRC4820F	6 85360 16231 7	208	1	4800	16380	23.1	100	25
FRC4824F	6 85360 16219 5	240	1	4800	16380	20	100	25
		208		3600	12285	17.3		
FRC4827F	6 85360 16227 0	277	1	4800	16380	17.3	100	25
		240		3600	12285	15		
FRC4503F	6 85360 16411 3	347	1	4800	16380	13.8	100	25
FRC40203F	6 85360 16215 7	208	3	4000	13650	11.1	100	25
FRC48203F	6 85360 16235 5	208	3	4800	16380	13.3	100	25
FRC40243F	6 85360 16203 4	240	3	4000	13650	9.6	100	25
FRC45043F	6 85360 16476 2	240	3	4800	16380	11.6	100	25

*Factory wired for higher wattage, field convertible to half wattage.

Standard finish: Statuary bronze. For Northern White finish, please add NW suffix to catalog number when placing an order.

ACCESSORIES (optional)

CATALOG NUMBER	DESCRIPTION
FRPE	Pneumatic/Electric switch. Factory set at 10 psig to "make" on pressure drop. May be field wired to "break" on pressure drop. Pressure set point adjustable to 30 psig. (Field installed)
FRR2 (24 volt) FRR12 (120 volt)	Time delay relay 40-60 seconds to close when energized. Use 120V or 24V power supply from remote source (field installed)
FRS1PB	1" deep surface mounting frame for semi-recessed installation, Stat Bronze
FRS2PB	2" deep surface mounting frame for semi-recessed installation, Stat Bronze
FRSMPB	Surface mounting frame for surface installations. Painted to match heater decor, 3 13/16" deep, Stat Bronze
VFKSFCNW	14 gauge security front cover, Northern White

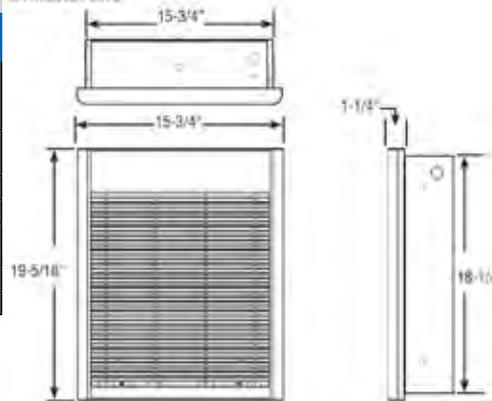
For Northern White finish, please add NW suffix to catalog number when placing an order.

MOUNTING LIMITATIONS

1. For wall mounting - Do not install back box closer than 8 inches from floor or adjacent wall.
2. Do not install heater behind towel rack, behind door, in floor, in closet, in ceiling or where air flow may be obstructed.

All controls are concealed behind the front cover making them essentially tamper proof. They will accommodate pneumatic/electric or low-voltage controls commonly used with computerized energy management systems.

DIMENSIONS



ROUGH-IN BOX:
18-1/4" H X 14-3/8" W X 3-3/4" D

GRILLE:
19-3/16" H X 15-25/32" W X 1-3/8" D

COMMERCIAL FAN-FORCED WALL HEATERS

FRA

APPLICATIONS:

Berko's high-capacity, heavy-duty fan forced wall heaters are designed for use almost anywhere in residential commercial or industrial areas requiring electric fan forced heaters in 1500 to 4800 watt capacities. They perform exceptionally well in such applications as hotel foyers, restaurant vestibules, department store hallways, fast food entryways, commercial showrooms, mechanical rooms, medical offices, basements and offices.

FEATURES:

- Contemporary commercial grade steel grille, designed to provide comfort through optimized airflow.
- Standard finish: Northern White.
- Voltage selections: 120, 208, 240 and 277 volts.
- Wattage selections: 1,500-4,800 Watts.
- Thermostat range: 40° to 90°F.
- Fan only operation for summer use.
- Built-in power on / off for added safety during maintenance.
- Manual reset thermal overload protector disconnects power in the event of overheating due to accidental blockage.
- Fan delay switch - energizes fan motor only after elements are heated, which prevents discharge of unheated air.
- Integral double-pole thermostat allows for easy adjustment of room temperature to maintain desired comfort level.
- All units have a permanently lubricated totally enclosed fan motor, which creates long life and low maintenance, and gently distributes warmth throughout the area.
- 1 year workmanship warranty, 5 year warranty on element.



CATALOG NUMBER	UPC	VOLTS.	PH.	CFM	WATTS	BTU/HR.	AMPS	SHIP WT. (LBS.)
FRA1512F	6 85360 16239 3	120	1	100	1500	5120	12.5	23
FRA1812F	6 85360 16241 6	120	1	100	1800	1800	15.0	23
FRA4024F	6 85360 16247 8	240	1	100	4000/2000	13652/10239	16.7/8.3	23
		208	1	100	3000/1500	6826/5120	14.5/7.2	
FRA4027F	6 85360 16249 2	277	1	100	4000/ 2000	13652/10239	14.5/ 7.2	23
		240		100	3000/1500	6826/5120	12.5/6.3	
FRA3027F	6 85360 16243 0	277	1	100	3000/1500	10239/5120	10.8/5.4	23
FRA4020F	6 85360 16253 9	208	1	100	4000/2000	13652/6826	19.2/9.6	23
FRA40203F	6 85360 16251 5	208	3	100	4000	13652	11.1	25
FRA40243F	6 85360 16245 4	240	3	100	4000	13652	9.7	25
FRA4824F	6 85360 16257 7	240/208	1	100	4800/3600	16382/12287	20.0/17.3	23
FRA4827F	6 85360 16259 1	277/240	1	100	4800/3600	16382/12287	17.3/15.0	25
FRA4820F	6 85360 16263 8	208	1	100	4800	16382	23.1	25
FRA48203F	6 85360 16261 4	208	3	100	4800	16382	13.4	25
FRA48243F	6 85360 16255 3	240	3	100	4800	16382	11.6	n/a
FRA3203F	6 85360 16419 9	347	1	100	2000	n/a	5.8	n/a
FRA3206F	6 85360 16421 2	600	1	100	2000	n/a	3.3	n/a
FRA3153F	6 85360 16423 6	347	1	100	1500	n/a	4.3	n/a
FRA3156F	6 85360 16425 0	600	1	100	1500	n/a	2.5	n/a
FRA3303F	6 85360 16427 4	347	1	100	3000	n/a	8.6	n/a
FRA3306F	6 85360 16429 8	600	1	100	3000	n/a	5	n/a
FRA3403F	6 85360 16431 1	347	1	100	4000	n/a	11.5	n/a
FRA3406F	6 85360 16433 5	600	1	100	4000	n/a	6.7	n/a
FRA3503F	6 85360 16435 9	347	1	100	4800	n/a	13.8	n/a
FRA3506F	6 85360 16437 3	600	1	100	4800	n/a	8	n/a

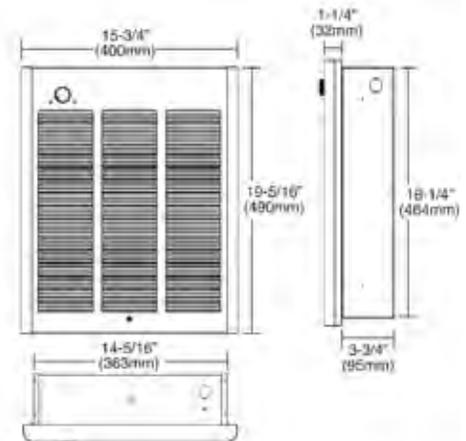
ACCESSORIES (optional)

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
FRAFCTPF	6 85360 02710 4	Tamper Proof Front Cover, Northern White (Cover 1 must be removed to adjust thermostat)	1
FRASM	6 85360 02822 4	Surface mounting frame, Northern White	2
FRAS1	6 85360 03036 4	1" Semi-recessed frame, Northern White	2
FRAS2	6 85360 03035 7	2" Semi-recessed frame, Northern White	2
VFKFSCNW	6 85360 16080 1	14 gauge security front cover, Northern White	2

For Northern White finish, please add NW suffix to catalog number when placing an order.

MOUNTING LIMITATIONS:

1. For wall mounting - Do not install back box closer than 8 inches from floor or adjacent wall.
2. Do not install heater behind towel rack, behind door, in floor, in closet, in ceiling or where air flow may be obstructed.



COMMERCIAL FAN-FORCED WALL HEATERS

VFK WALL HEATERS

APPLICATIONS:

Berko's high-capacity, heavy duty fan forced wall heaters are designed for use almost anywhere in residential, commercial or industrial areas requiring electric fan forced heaters in 1500 to 4800 watt capacities. They perform exceptionally well in such applications as hotel foyers, restaurant vestibules, department store hallways, fast food entryways, commercial showrooms, mechanical rooms, medical offices, basements and offices.

FEATURES:

- Contemporary commercial grade steel grille designed to provide a sleek appearance and rugged use.
- Standard finish: Northern White.
- Voltage selections: 120, 208, 240 and 277 volts.
- Wattage selections: 1,500-4,800 Watts.
- Manual reset thermal overload protector disconnects power in the event of overheating due to accidental blockage.
- Built-in fan delay switch energizes fan motor only after elements are heated, which prevents discharge of unheated air.
- Integral double-pole thermostat allows for easy adjustment of room temperature to maintain desired comfort level and a positive OFF to assure heater will not operate if not needed.
- All units have a permanently lubricated, totally enclosed fan motor, which creates long life and low maintenance, and gently distributes warmth throughout the area.
- 1 year workmanship warranty, 5 year warranty on element.



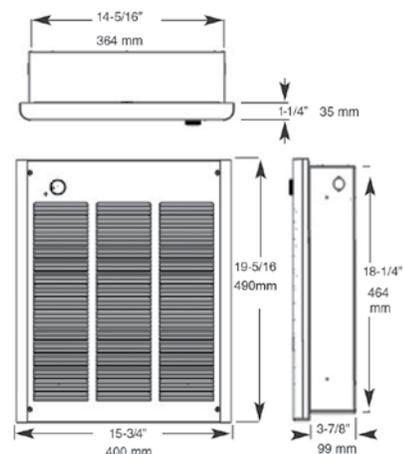
CATALOG NUMBER	UPC	VOLTS.	WATTS.	CFM	PH.	AMPS	SHIP WT. (LBS.)
VFK151F	6 85360 16269 0	120	1500	100	1	12.5	22
VFK204F	6 85360 16271 3	240/208	2000/1500	100	1	8.3/7.2	22
VFK303F	6 85360 16273 7	347	3000	100	1	8.6	n/a
VFK304F	6 85360 16275 1	240	3000	100	1	12.5	22
VFK306F	6 85360 16277 5	600	3000	100	3	5	n/a
VFK403F	6 85360 16182 2	347	4000	100	1	11.5	n/a
VFK404F	6 85360 16180 8	240/208	4000/3000	100	1	16.7/14.4	22
VFK406F	6 85360 16279 9	600	4000	100	3	6.7	n/a
VFK408F	6 85360 16283 6	208	4000	100	1	19.2	n/a
VFK483F	6 85360 16285 0	347	4800	100	1	13.8	n/a
VFK484F	6 85360 16287 4	240/208	4800/3600	100	1	20/17.3	22
VFK486F	6 85360 16289 8	600	4800	100	3	8	n/a
VFK4083F	6 85360 16281 2	208	4000	100	3	11.1	23
VFK487F	6 85360 16291 1	277/240	4800/3600	100	1	17.3/15	23
VFK488F	6 85360 16295 9	208	4800	100	1	23.1	23
VFK4883F	6 85360 16293 5	208	4800	100	3	13.3	23

ACCESSORIES (optional)

CATALOG NUMBER	UPC	DESCRIPTION	SHIPWT. (LBS.)
VFKSFCNW	6 85360 16080 1	14 gauge security front cover Northern White	6
VFKSM	6 85360 07467 2	Surface mounting frame for surface installations. 3-13/16" deep, Northern White	1
VFKS1	6 85360 07468 9	1" deep surface mounting frame for semi-recessed installation, Northern White	1
VFKS2	6 85360 07469 6	2" deep surface mounting frame for semi-recessed installation, Northern White	1

MOUNTING LIMITATIONS:

1. For wall mounting - Do not install back box closer than 8 inches from floor or adjacent wall.
2. Do not install heater behind towel rack, behind door, in floor, in closet, in ceiling or where air flow may be obstructed.



COMMERCIAL FAN-FORCED WALL HEATERS

MFQ

APPLICATIONS:

Ideal for offices, stores, schools, churches, hospitals, dormitories, airport terminals, reception rooms, entrance lobbies, corridors and stairwells. Unit installs easily in either new or remodeled buildings.

FEATURES:

- Steel finned metal sheath electric heating elements with low sheath temperatures provided uniform heat and long service life.
- Rugged stamped steel front cover provides a down-flow air pattern and is attractively finished in Northern White.
- Integral thermostat for quick installation... separate thermostat not necessary.
- Thermal overheat protectors disconnect power in event of overheating due to accidental blockage.
- Built-in power disconnect switch for added safety during maintenance.
- Permanently lubricated, totally enclosed fan motor provides long-life and low maintenance; gently distributes warmth through room area.
- On / Off switch.



GRILLE: 31-3/4"W X 22-3/4"H X 1-1/2"D
 BACK BOX: 30-1/2"W 21-1/8"H 3-3/4"D



CATALOG NUMBER	UPC	VOLTS	PHASE	CFM	WATTS	AMPS	SHIP WT. (LBS.)	BUILT-IN THERMOSTAT
MFQ6008	6 85360 04687 7	208	1	200	6000	28.8	50	Yes
MFQ6004	6 85360 04683 9	240	1	200	6000	25	50	Yes
MFQ6007	6 85360 04686 0	277	1	200	6000	21.7	50	Yes
MFQ6003	6 85360 04682 2	347	1	200	6000	17.3	50	Yes
MFQ60048	6 85360 04684 6	480	1	200	6000	12.5	50	Yes
MFQ6006	6 85360 04685 3	600	1	200	6000	10	50	Yes
MFQ8008	6 85360 04693 8	208	1	200	8000	38.5	50	Yes
MFQ8004	6 85360 04689 1	240	1	200	8000	33.3	50	Yes
MFQ8007	6 85360 04692 1	277	1	200	8000	28.9	50	Yes
MFQ8003	6 85360 04688 4	347	1	200	8000	23.1	50	Yes
MFQ80048	6 85360 04690 7	480	1	200	8000	16.7	50	Yes
MFQ8006	6 85360 04691 4	600	1	200	8000	13.3	50	Yes

ACCESSORIES (optional)

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
MFQSM	6 85360 04679 2	Surface Mounting Frame	6
MFQS1	6 85360 04680 8	1 Semi-Recess Frame	5
MFQS2	6 85360 04681 5	2 Semi-Recess Frame	6
MFQR24	6 85360 04678 5	24V Power Relay	1
MFQR120	6 85360 04677 8	120V Power Relay	1

COMMERCIAL FAN-FORCED WALL HEATERS

SRA ARCHITECTURAL SERIES



APPLICATIONS:

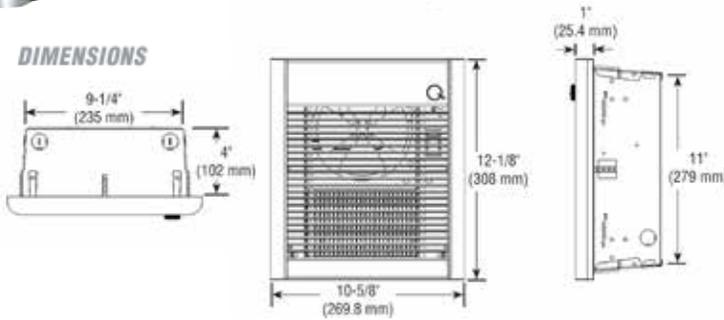
Fast heat response, compact design and versatility make the SRA Architectural Series heaters ideal for small offices, dens, basements, converted attics, breezeways, garages and workshops. Also, adaptable to multiple installations in somewhat larger or odd shaped rooms.

FEATURES:

- Contemporary bar-stock grille designed to provide optimized airflow.
- Standard finish: Statuary Bronze.
- Voltage selections: 120, 208, 240 and 277.
- Wattage selections: 500-2 000.
- Thermostat range: 40° to 85°F.
- Fan delay switch - energizes fan motor only after elements are heated, which prevents discharge of unheated air.
- Manual reset thermal overload protector disconnects power in the event of overheating due to accidental blockage.
- Built-in power On / Off switch for added safety during maintenance.
- All units have a permanently lubricated totally enclosed fan motor, which creates long life and low maintenance, and gently distributes warmth throughout the area.
- 1 year workmanship warranty, 5 year warranty on element.



DIMENSIONS



MOUNTING LIMITATIONS

1. Do not install heater closer than 4" from floor.
2. Do not install heater behind towel rack, behind door, in floor, in ceiling, in closet, or where air flow may be obstructed.
3. Requires 3 wires if remote thermostat is desired.

CATALOG NUMBER	UPC	VOLTS	AMPS	WATTS	BTU/HR	WIRE SIZE
SRA1012DSAF	6 85360 16297 3	120	8.4	1000	3413	14AWG
			4.2	500	1706	
SRA1512DSAF	6 85360 16299 7	120	12.5	1500	5120	12AWG
			6.25	750	2560	
SRA1812DSAF	6 85360 16303 1	120	15	1800	6143	12AWG
SRA2024DSAF	6 85360 16307 9	240	8.4	2000	6826	14AWG
			4.2	1000	3413	
		208	7.3	1500	5120	
			3.61	750	2560	
SRA2027DSAF	6 85360 16309 3	277	7.3	2000	6826	14AWG
			3.61	1000	3413	
		240	6.25	1500	5120	
			3.2	750	2560	
SRA1527DSAF	6 85360 16301 7	277	5.5	1500	5120	14AWG
			2.75	750	2560	
		240	4.7	1125	3840	
			2.35	562	1920	
SRA2020DSAF	6 85360 16305 5	208	9.6	2000	6826	14AWG
			4.8	1000	3413	

ACCESSORIES

CATALOG NUMBER	UPC	DESCRIPTION
SRASMAG	6 85360 14855 7	Surface Mounting Frame (Accessory). Order separately. 12-1/2" H x 10-3/8" W x 4" D, Stat Bronze
SRAS1AG	6 85360 14856 4	1" Semi-Recess Mounting Frame, 12-1/2" H x 10-3/8" W x 1" D, Stat Bronze
SRAS2AG	6 85360 14857 1	2" Semi-Recess Mounting Frame, 12-1/2" H x 10-3/8" W x 2" D, Stat Bronze

COMMERCIAL FAN-FORCED WALL HEATERS

SRA



NORTHERN WHITE FINISH

Thermostat Range	40° to 85°F
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APPLICATIONS:

Fast heat response, compact design and versatility make the SRA Series heaters ideal for basements, attics, entryways, large rooms, offices and remodels. Also adaptable to multiple installations in somewhat larger or odd shaped rooms.

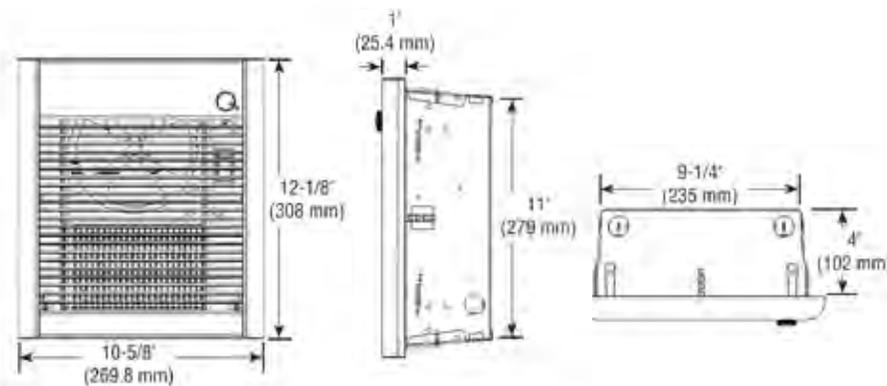
FEATURES:

- Contemporary commercial grade steel grille, designed to provide comfort through optimized airflow.
- Voltage selections: 120, 208, 240 and 277 volts.
- Wattage selections: 500-2000 Watts.
- Built-in On / Off switch for added safety during maintenance.
- Manual reset thermal protector disconnects power in the event of overheating due to accidental blockage.
- Built-in fan delay switch energizes fan motor only after elements are heated, which prevents discharge of unheated air.
- Integral double-pole thermostat allows for easy adjustment of room temperature to maintain desired comfort level.
- All units have a permanently lubricated fan motor, which creates long life and low maintenance, and gently distributes warmth throughout the area.
- 1 year workmanship warranty, 5 year warranty on element.

CATALOG NUMBER	UPC	VOLTS	PHASE	WATTS	AMPS	CFM	BTU/HR	WIRE SIZE	SHIP WT. (LBS.)
SRA1012DSF	6 85360 163895	120	1	1000/500	8.4/4.2	65	3413/1706	14AWG	20
SRA1512DSF	6 85360 163918	120	1	1500/750	12.5/6.3	65	5120/2560	12AWG	20
SRA1812DSF	6 85360 163932	120	1	1800/900	15.0/7.5	65	6143/3072	12AWG	20
SRA2024DSF	6 85360 163956	240	1	2000/1000	8.4/4.2	65	6826/3413	14AWG	20
		208		1500/750	7.3/3.6		5120/2560	14AWG	
SRA2027DSF	6 85360 163970	277	1	2000/1000	7.3/3.6	65	6826/3413	14AWG	20
		240		1500/750	6.3/3.2		5120/2560	14AWG	
SRA1527DSF	6 85360 163994	277	1	1500/750	5.5/2.75	65	5120/2560	14AWG	20
		240		1125/562	4.7/2.4		3840/1920	14AWG	
SRA2020DSF	6 85360 164014	208	1	2000/1000	9.6/4.8	65	6826/3413	14AWG	20

ACCESSORIES (optional)

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
SRAFCTPF	6 85360 07101 5	Tamper-resistant front cover, Northern White	1
SRASM	6 85360 07102 2	Surface Mounting Frame. Order Separately 12-1/2" (318mm)H X 10-3/8" (264mm)W X 4" (102mm), Northern White	2
SRAS1	6 85360 07103 9	1" (25mm) Recess Mounting Frame (Accessory) Order Separately, Northern White	2
SRAS2	6 85360 07104 6	2" (50mm) Recess Mounting Frame (Accessory) Order Separately, Northern White	2



RESIDENTIAL FAN-FORCED ZONAL HEATERS

COS-E™



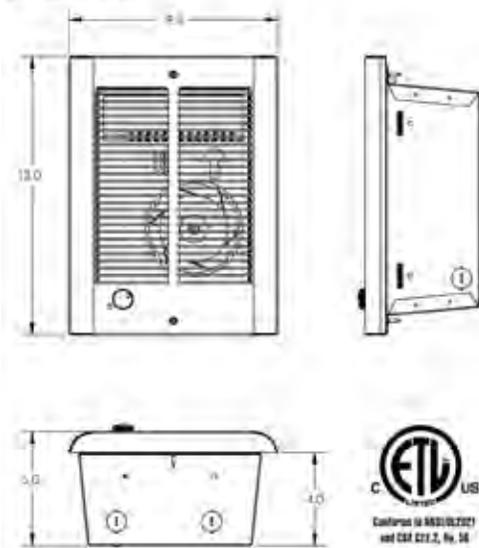
APPLICATIONS:

Suitable for use in almost any room. Use single heaters in smaller rooms such as basements, bathrooms, bedrooms, hallways and remodels. Use multiple heaters (controlled by a single thermostat) in larger rooms such as living rooms and family rooms. Wattage levels should be determined by heat loss calculations.

FEATURES:

- Contemporary look and compact size ideal for new residential or commercial installations where space is limited.
- Adaptable for retrofits into 7-7/8" x 11-1/2" x 4" back-box (such as provided with UL-approved COS-E and CS Models) and rough-in opening same if new box is desired.
- Voltage selections: 120V, 208V and 240V.
- Wattage selections: 375W, 570W, 750W, 1125W, 1500W and 2000W.
- CLIP-N-FIT® patented feature (dual wattage and voltage) to help optimize inventory.
- Dual protection: self-hold limit with one time thermal fuse.
- Efficient quiet operation from smooth running multi-layer impeller.
- Quick installation and easy service with Heater/Fan Assembly fitting to back box by one screw.
- 1 year workmanship warranty, 5 year warranty on element.

DIMENSIONS



CLIP-N-FIT® FEATURE - Patented feature (US Patented No. 6,172,343) allows the installer to change the wattage of the heater to a lower output without moving jumper wire. Each heater is factory wired for its maximum wattage. To reduce to half wattage, clip jumper wire on heating element. This patented feature also prevents the operator from changing wattage after installation to a higher wattage.

SELECTION CHART

CATALOG NUMBER	VOLTS	CFM	240V WATTAGE	208V WATTAGE	120V WATTAGE
CZ1512T	120V	50	n/a	n/a	1500W/750W
CZ1012T	120V	50	n/a	n/a	1000W/500W
CZ1048T	208/240V	50	1000W/500W	750W/375W	n/a
CZ1548T	208/240V	50	1500W/750W	1125W/570W	n/a
CZ2048T	208/240V	50	2000W/1000W	1500W/750W	n/a
MOTOR AND GRILLE ONLY					
CZ1512IF	120V	50	n/a	n/a	1500W/750W
CZ1012IF	120V	50	n/a	n/a	1000W/500W
CZ1512IF	120V	50	n/a	n/a	1500W/750W
CZ1548IF	208/240V	50	1500W/750W	1125W/570W	n/a
CZ2048IF	208/240V	50	2000W/1000W	1500W/750W	n/a

*Heater/fan with grille only. Back box and thermostat sold separately.

ACCESSORIES

CATALOG NUMBER	DESCRIPTION
CZBB	Back Box Only (Used with "IF" suffix models)
CZBB6	Back Box Multi-pack (Used with "IF" suffix models)
CZTDP	D.P. Thermostat Kit (Range: 40-85°)
CZSM	Surface Mounting Frame (Used with "IF" suffix models)

FAN-FORCED WALL HEATERS CLIP-N-FIT® Feature

GFR



GRILLE: 16-7/8" W X 7-3/4" H X 3/4" D
BACK BOX: 14-3/8" W 6-5/8" H 4-5/8" D



APPLICATIONS:

Fast heat response, contemporary design and very quiet operation make GFR Series fan forced heaters ideal for bedrooms, dens, basements, converted attics, breeze ways, garages, bathrooms, small offices, workshops, and other similar areas. Also adaptable to multiple installations in somewhat larger or odd shaped room.

FEATURE

- Contemporary commercial grade steel grille, designed to provide comfort through optimized airflow.
- Voltage selections: 120 and 240 volts.
- Wattage selections: 375-2000 watts.
- Whisper quiet operation is achieved due to unique design which includes tangential blower and impedance protected, permanently lubricated motor.
- Manual reset thermal overheat protector disconnects power in the event of overheating due to accidental blockage.
- Single and double-pole thermostat kits are available for field installation.
- All motors are C frame units that have a permanently lubricated fan motor, which creates long life and low maintenance, and gently distributes warmth throughout the area.
- 1 year workmanship warranty, 5 year warranty on element.

CLIP-N-FIT® FEATURE - Patented feature (US Patented No. 6,172,343) allows the installer to change the wattage of the heater to a lower output without moving jumper wire. Each heater is factory wired for its maximum wattage. To reduce to half wattage, clip jumper wire on heating element. This patented feature also prevents the operator from changing wattage after installation to a higher wattage.

CATALOG NUMBER	UPC	VOLTS	PHASE	WATTS	AMPS	BUILT IN THERM	SHIP WT. (LBS.)
GFR1500F	6 85360 03368 6	120	45	1500/1125/750/375	12.5/9.4/6.3/3.1	No	10
GFR2004F	6 85360 03372 3	240*	45	2000/1500/1000/500	8.3/6.3/4.2/2.1	No	10
GFR2404F	6 85360 03375 4	240*	45	2400/1800/1200/600	10.0/7.5/5.0/2.5	No	10
GFR1500T2F	6 85360 03369 3	120	45	1500/1125/750/375	12.5/9.4/6.3/3.1	Double Pole	11
GFR2004T2F	6 85360 03374 7	240*	45	2000/1500/1000/500	8.3/6.3/4.2/2.1	Double Pole	11
GFR2404T2F	6 85360 03377 8	240*	45	2400/1800/1200/600	10.0/7.5/5.0/2.5	Double Pole	11

All GFR Single Phase

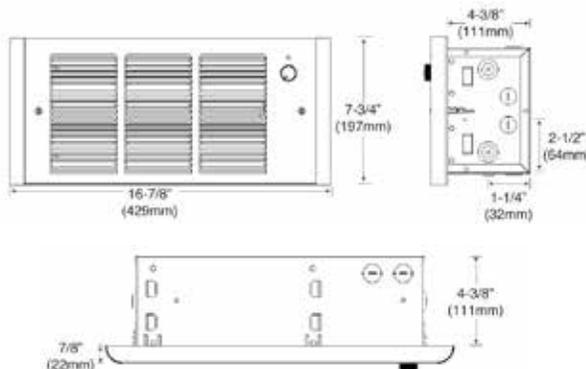
ACCESSORIES (optional)

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
GFRBB	6 85360 033624	Single backbox for QFG series heater	2
GFRBB6	6 85360 033631	Multi-pack backbox (6pcs)	10
QFGTSP	6 85360 033679	Single pole Thermostat (field installed)	1
QFGTDP	033662	Double pole thermostat (field installed)	1
GFRSM	033648	Surface Mounting Frame.	2

NOTE: "IF" models include heater assembly and grille only. Order back box separately: See accessories.

NOTE: For installations over 7500 feet above sea level we recommend using models under 1500 watts.

NOTE: T2 Model are complete heater assemblies with grille, back box, and thermostat.



MOUNTING LIMITATIONS

For wall mounting only. Do not install back box closer than 4 inches from floor, 6 inches from adjacent walls and 36 inches from the ceiling. Do not install heater behind towel rack, behind door, in floor, in closet, in ceiling or where airflow may be obstructed. To insure proper operation, maintain 5-foot minimum clearance to furniture or other objects placed directly in front of the heater.

FAN-FORCED WALL HEATERS CLIP-N-FIT® Feature

QFG



GRILLE: 16-7/8" W X 7-3/4" H X 3/4" D
BACK BOX: 14-3/8" W X 6-5/8" H X 4-3/8" D

Patented Clip-N-Fit® feature (US)
Patented No. 6,172,343)

APPLICATIONS:

RESIDENTIAL: QFG Series electric in-wall heaters are suitable for use in almost any room. Use single heaters in smaller rooms such as bedrooms and bathrooms. Use multiple heaters (controlled by a single thermostat) in larger rooms such as living rooms and family rooms. Wattage should be determined through heat loss calculations.

COMMERCIAL: Suitable as the primary heat source in smaller rooms and as supplemental heat in almost any general use area.

FEATURES:

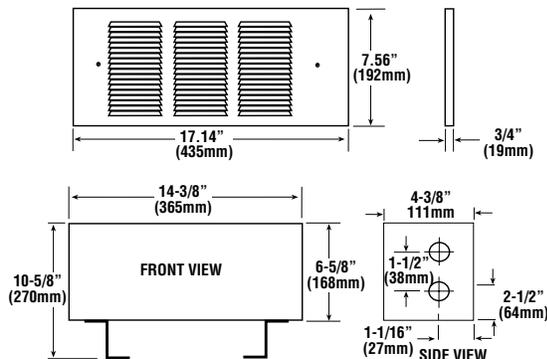
- Dual Protection: Thermal cutout with indicator light and one time thermal fuse.
- Tangential blower for whisper quiet operation.
- Northern White durable polyester powder coat finish.
- Open coil element assures quick heat and low maintenance.
- Three piece construction for ease of installation.
- Permanently lubricated, dust-protected bearings.
- 5-year warranty on element.

CATALOG NUMBER	UPC	VOLTS	CFM	PHASE	UNIT WATTAGE	SHIP AMPS	BUILT-IN WT. (LBS.)	T-STAT
QFG1512IFM	6 85360 08809 9	120	45	1	375/750/1125/1500	3.1/6.3/9.4/12.5	8	No
QFG2024IFM	6 85360 08810 5	240	45	1	500/1000/1500/2000	2.1/4.2/6.3/8.3	8	No
QFG2224IFM	6 85360 08811 2	240	45	1	563/1125/1688/2250	2.3/4.7/7.0/9.4	8	No
QFG2228IF	6 85360 05947 1	208	45	1	2200	10.6	8	No
QFG1512T2M	6 85360 05937 2	120	45	1	1500/1125/750/375	12.5/9.4/6.3/3.1	8	Yes
QFG2024T2M	6 85360 05941 9	240	45	1	2000/1500/1000/500	8.3/6.3/4.2/2.1	8	Yes
QFG2224T2M	6 85360 05946 4	240	45	1	2250/1688/1125/563	9.4/7.0/4.7/2.3	8	Yes

ACCESSORIES (optional)

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
GFRBB	6 85360 033624	Single backbox for QFG series heater	2
GFRBB6	6 85360 033631	Multi-pack backbox (6pcs)	10
QFGTSP	6 85360 033679	Single pole Thermostat (field installed)	1
QFGTDP	6 85360 033662	Double pole thermostat (field installed)	1
GFRSM	6 85360 033648	Surface Mounting Frame	2

NOTE: "IF" models include heater assembly and grille only. Order back box separately: See accessories.
NOTE: For installations over 7500 feet above sea level we recommend using models under 1500 watts.
NOTE: T2 Model are complete heater assemblies with grille, back box, and thermostat.



MOUNTING LIMITATIONS

For wall mounting only. Do not install back box closer than 4 inches from floor, 6 inches from adjacent walls and 36 inches from the ceiling. Do not install heater behind towel rack, behind door, in floor, in closet, in ceiling or where airflow may be obstructed. To insure proper operation, maintain 5-foot minimum clearance to furniture or other objects placed directly in front of the heater.

EURO STYLE WALL HEATERS, NON-FAN FORCED

ECP

APPLICATIONS:

Suitable for use in almost any room. Use single heaters in smaller rooms such as bedrooms and bathrooms. Use multiple heaters in larger rooms such as living rooms and family rooms. Wattage levels should be determined by heat loss calculations. Great source of supplementary heating of offices, reception rooms, game rooms and similar light duty commercial and residential applications.

FEATURES:

- Convection and radiant warmth from one heater.
- Heater can be surface mounted or recessed into 2X4 or larger wall sections. It is designed to fit between 16" O.C. studs.
- Steel finned metal sheath electric heating elements provide uniform heat and long service life.
- Closely spaced bar grille design discourages insertion of foreign objects and directs air outward to effectively distribute heat to the middle of the room.
- Heavy-duty metal grille offers attractive appearance in a neutral color that is compatible with any decor.
- Contemporary styling uses soft curves on all edges, avoiding the sharp corners of a square design.
- Large wiring compartment is accessible from the front of the heater enabling rapid, easy hookup.
- CSA approved.



ROUGH-IN: 23-1/8" H X 14-1/4" W
 GRILLE: 26-1/4" H X 16-1/4" W X 1-5/8" D

CATALOG NUMBER	UPC	VOLTS	WATTS	AMPS	PHASE	SHIP WT. (LBS.)
ECP1024	6 85360 12732 3	240/208	1000/750	4.2/3.6	1	27
ECP1524	6 85360 12733 0	240/208	1500/1125	6.3/5.4	1	27

FAN-FORCED WALL HEATERS -SED

APPLICATIONS:

Ideally suited for recessed shallow wall mount application, such as manufactured homes.

FEATURES:

- Back-box depth 2-1/2".
- Field wiring compartment for ease of installation.
- Built-in double pole thermostat on all units.
- Ceiling mount units available (1000 Watt units).
- Stainless Steel and Northern White grille finishes available.
- Surface mount accessories available.



ROUGH-IN: 12-1/2"H x 9-1/4"W.
 GRILLE: 14-1/2"H x 10-1/2"W x 1-1/4"D

CATALOG NUMBER	UPC	VOLTS	WATTS	AMPS	CFM	GRILLE FINISH	CEIL. MT.	SHIP WT. (LBS.)
SED1012C	6 85360 08190 8	120	1000	8.3	50	Stainless Steel	Yes	12
SED1024C	6 85360 08191 5	240/208	1000/750	4.2/3.6	50	Stainless Steel	Yes	12
SED1512	6 85360 08192 2	120	1500	12.5	50	N. White	No	12
SED2024	6 85360 08193 9	240/208	2000/1500	8.3/7.2	50	N. White	No	12
SED1012W	6 85360 14888 5	120	1000	8.3	50	N. White	Yes	12
SED1024W	6 85360 15698 9	240/208	1000/750	4.2/3.6	50	N. White	Yes	12



ACCESSORIES

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
SEDSM	6 85360 01043 1	N. White Surface Mounting Frame	3
SEDSMC	6 85360 12617 3	Stainless Steel Surface Mounting Frame	3
SEDFCW	6 85360 12616 6	Front Cover - Northern White	2
SEDFCC	6 85360 12615 9	Front Cover - Stainless Steel	2

COUNTERFLOW ELECTRIC WALL FURNACE - CFWF

APPLICATIONS:

This heater works by drawing cool air in at the top grille inlet and pushing it with a fan downward over the heating elements. Warm air is discharged into the room through the bottom grille outlet near the floor. The warm air at the floor creates a gentle convective process in the room, preventing stratification of warm air near the ceiling and ensuring comfort for the occupants.

Ideal for apartments as primary heat source. Delivers 31,400 BTUH at 240V, 9.2KW output. Great source of supplementary heating of offices, reception rooms, game rooms and similar light duty commercial and residential applications.



FEATURES:

- Heater can be surface mounted or recessed into wall sections (maximum depth of recess is 5-3/8").
- Heavy duty open coil electric heating elements provides uniform heat and long service life.
- Large fan blower at top of unit pushes air down over heating element and quietly delivers heated air at floor level.
- Digital 24volt, 2-wire electronic thermostat included with heater.
- Electrostatic soft white powder coat finish offers attractive appearance in a neutral color that is compatible with any decor.
- Contemporary styling uses soft curves on all edges, avoiding the sharp corners of a square design.
- Large wiring compartment is accessible from the front of the heater enabling rapid, easy hookup.
- Optional rear outlet package allows some heated air to adjoining rooms. Mounted in wall behind heater.

CATALOG NUMBER	UPC 6-85360	DIMENSIONS	AMPS	VOLTS	KW	CFM	SHIP WT. (LBS.)	
CFWF920	08643 9	72-1/2" H x 14-1/8" W x 7" D	40.0	240	9.2	300	60	
Can be recessed or surface mounted. (Recess mount wall opening 75-1/2" H x 14-3/8" W)								
CFWFRO	10716 5	Rear Outlet Package				300	6	



Mounting Limitations: The counterflow wall furnace may be recessed up to 5-3/8" with studs spaced 16 inches on center, or it may be mounted directly on the wall. The side of heater must be at least 6 inches from a corner or from a wall divider.

FLOOR DROP-IN HEATERS - FDI



FEATURES:

- Heavy-duty grille.
- Overheat thermal protector.
- Sandal wood baked enamel grille finish.
- Push-on tab wire terminals.
- Quiet operation.
- Versatile, universal size draft barrier heater.

GRILLE: 15-3/8" L X 8-3/4" W
HOUSING: 14" L X 7-1/4" W X 6-5/8" D

CATALOG NUMBER	UPC 6 85360	VOLTS	CFM	WATTS	AMPS	SHIP WT. (LBS.)
FDI1500	02626 8	120	80	1500/750	12.5/6.3	10
FDI1504	02628 2	240	80	1500/750	6.3/3.1	10
			208	1125/563	5.4/2.7	
FDITSP	02619 0	120-240V T'stat Kit				1

*60hz: single-phase

Mounting: Do not install in bathroom or other areas where water may enter heater unit. Do not locate where air flow may be obstructed (under drapes, behind doors, etc.). Keep short side 36" min. and long side 3" min. from side walls. Do not install in ceiling or wall.

TOE SPACE FAN-FORCED HEATERS - QTS



FEATURES:

- Steel plate fin element.
- Built-in or remote thermostat models.
- Thermal cutout.
- Quiet, tangential blower.

GRILLE: 3-5/8" H X 15-3/8" W
BACK BOX: 3-1/2" H X 8-7/8" D X 14-1/8" W

CATALOG NUMBER	UPC 6 85360	VOLTS	WATTS	AMPS	SHIP WT. (LBS.)
QTS1100	06538 0	120	1125/563	9.4/4.7	10
		240	1125/563	4.7/2.3	
QTS1104	06539 7	208	844/422	4.1/2.0	10
QTS1500T	06541 0	120	1500/750	12.5/6.3	11
		240/208	1500/750	6.3/3.1	
QTS1504T	06543 4	240/208	1125/564	5.4/2.7	11
QTSAG	06532 8	Adapter Grille 3-1/2" H x 23-3/8" W			1
QTSTSP	06533 5	120 - 240 Volt Thermostat Kit			1

NOTE: QTS1500T & QTS1504T are shipped with single pole thermostat installed. QTS1100 & QTS1104 require TSTSP or remote wall mounted thermostat.

UTILITY WELL HOUSE HEATERS- WHT500

APPLICATIONS:

Install it anywhere heat is needed to prevent pipes, pumps, and other water, hydraulic fluid or oil-filled equipment from freezing.

It is designed to provide automatic, 24-hour protection. Set the thermostat at any desired level and leave it. There are no moving parts. It is maintenance free and can be left unattended all winter long — ideal for remote location.

FEATURES:

- A steel sheath, aluminum finned element provides fast heat dissipation and a long life because of cooler sheath temperatures.
- Neutral grey finish
- The heater cabinet encloses the element and consists of neutral grey epoxy painted galvanized steel for corrosion protection.
- The thermostat is completely contained within the control box. Temperature control range is 40° to 70°F.
- One model is adaptable to 120V or 240/208V supply. Shipped wired for 240/208V field conversion to 120V is quick and easy.
- All power supply and control wiring terminates in the tamperproof control box — no live voltage in the element area.



NEUTRAL GRAY FINISH

DIMENSIONS:
21" L x 5" H x 3-1/2" D

CATALOG NUMBER	UPC 6 85360	VOLTS	THERMOSTAT TEMP RANGE	WATTS	AMPS	SHIP WT. (LBS.)
WHT500	08049 9	240/208/120	40° - 70°	500/376/500	2.1/1.8/4.2	6



COMMERCIAL DOWNFLOW CEILING MOUNTED HEATERS

FFCH



In the ceiling...

Type FFCH ceiling-mounting fan-forced heaters are designed for commercial and industrial areas requiring electric fan-forced heat. Capacities are 2,000 to 5,000 watts. Type FFCH-SE surface enclosures are designed to mount flat on the ceiling and extend only six inches into the room. Type FFCH-RE enclosures have no protrusions outside the recess box, allowing the heater to recess only seven inches into ceiling space. Mounts into permanent ceiling with trim ring.

BUILT-IN FAN DELAY — Space temperature is controlled by a wall or unit-mounted thermostat. When the thermostat calls for heat, the heating elements and fan energize. When the thermostat is satisfied, the elements shut off, but the fan continues to operate until all of the heated air is discharged. This feature avoids exposing the heater to residual heat, thus achieving a high comfort level and longer component life.

AUTOMATIC THERMAL CUTOUT — A thermal cutout shuts off the heater in the event of overheating and reactivates the heater when the temperature returns to normal.

Phosphatized, Baked Enamel Finish: All sheet metal and extruded aluminum parts, except the back box, are phosphatized, then finished by a baked enamel electrostatic painting process.



Efficient Operation: The five-bladed aluminum fan and the rugged impedance-protected, totally-enclosed motor, achieve efficient operation.

Elements: Steel fins are copper-brazed to low-watt density, steel-sheathed, tubular heating elements which are arranged in a uniform grid pattern. The grid covers the entire intake area, resulting in uniform heating of all discharged air.



THUMB PINS align and temporarily hold the enclosure cover to the heating section freeing both hands to finish installation.

300 CFM of airflow.

or on it!

MULTIPLE PHASE HEATERS — The 208 and 240 volt heaters can be field converted from single to three-phase operation. 277 volt single-phase heater is also available.

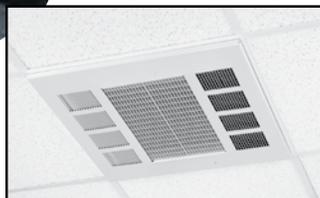
MULTIPLE WATTAGE HEATER SECTIONS — The 5,000 watt heater can be field converted to 3,800 watts or 2,500 watts, and the 4,000 watt heater is convertible to 3,000 or 2,000 watts.

Deliver heat where you want it...
in vestibules, hallways, work-shops, restrooms and entry way.

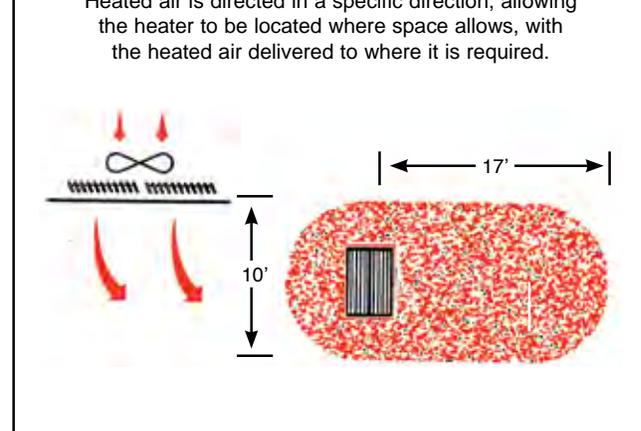
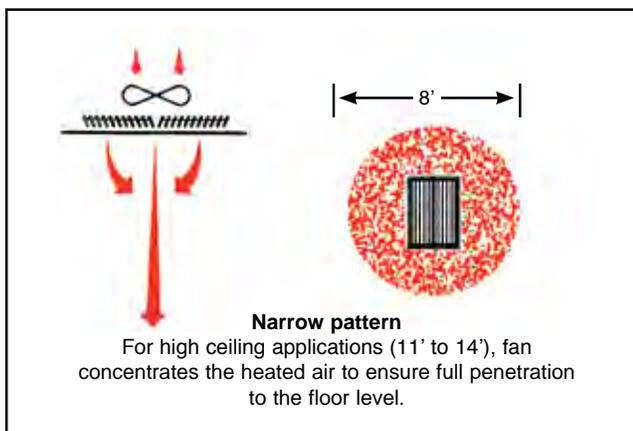
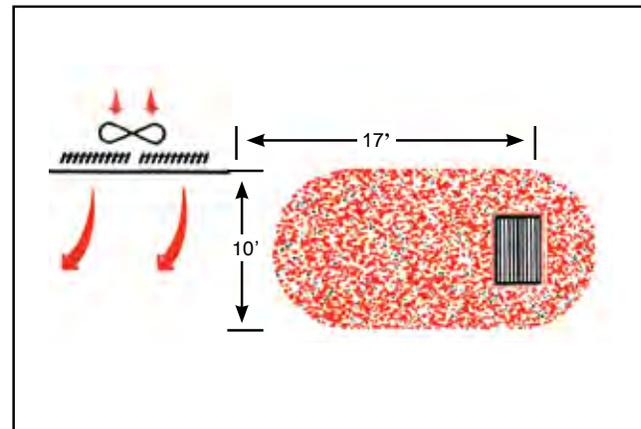
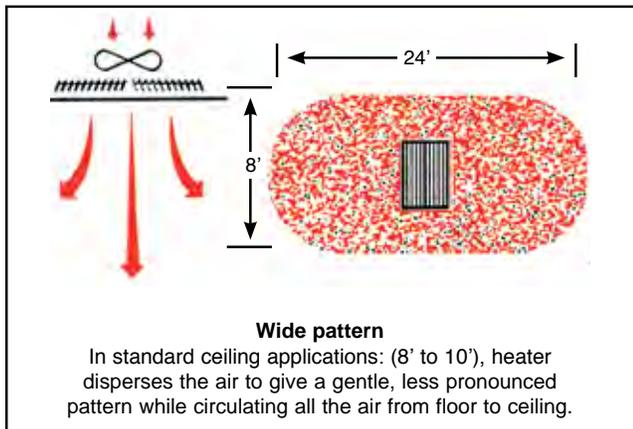
Type FFCH-RE enclosures also mount easily into standard 2 x 2 ceiling grid.

RECESSED MOUNT:
23-3/4" W x 23-3/4" L x 7" D

SURFACE MOUNT:
16-1/2" W x 20" L x 5-3/4" D



Totally adjustable airflow...even from 14 ft. ceilings!



CATALOG NUMBER	UPC	MOUNTING	KW	BTU/HR (000)	AMPS	VOLTS	PHASE	CFM	SHIP WT. (LBS.)
FFCH548	6 85360 02652 7	Heater Section Only	4/3/2	13.7/10.2/6.8	19.2/14.2/9.6	208	1-3	300	27
FFCH542	6 85360 02650 3				16.7/12.5/8.3	240	1-3		
FFCH547	6 85360 02651 0				14.4/10.8/7.2	277	1		
FFCH558	6 85360 02655 8		5/3.8/2.5	17.1/13/8.5	24/18.3/12	208	1-3	300	
FFCH552	6 85360 02653 4				20.8/15.8/10.4	240	1-3		
FFCH557	6 85360 02654 1				18.1/13.7/9	277	1		

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
FFCHSE	6 85360 02643 5	Surface Mounting Enclosure Only - To Be Used With Above Heater Sections.	10
FFCHRE	6 85360 02640 4	Recess Mounting Enclosure Only - To Be Used With Above Heater Sections.	18
FFCHSENW	6 85360 14962 2	Surface mounted Northern White - To Be Used With Above Heater Section. Dim. 20" L x 16-1/2" W x 5-3/4" D.	10
FFCHRENW	6 85360 14964 6	Recessed mounted Northern White - To Be Used With Above Heater Sections. Dim. 23-3/4" L x 23-3/4" W x 7" D.	18
FFCHT	6 85360 02645 9	Thermostat SPST Range 45 to 95°F.	1
FFCH24R	6 85360 02649 7	Relay (Time Delay 45-60 sec. to close when energized) requires 24 volt supply from remote source.	1
FFCHR12	6 85360 02642 8	Relay (Time Delay 45-60 sec. to close when energized) requires 120 volt supply from remote source.	1
FFCHDS	6 85360 02638 1	Power Disconnect Switch (3-Pole) 30 amps, 600 volts, 3Ø, 60 Hz.	1
FFCHTK	6 85360 02646 6	Trim Ring for mounting on permanent ceiling (cannot be factory installed).	1
FFCHTR4	6 85360 02647 3	208/240V Primary Transformer/24V sec. and 24V holding coil control relay.	1
FFCHTR7	6 85360 02648 0	277V. Primary Transformer/24V sec. and 24V holding coil control relay.	1

1. Factory wired for highest wattage, field convertible to lower wattages.
 2. Factory wired 1Ø, field convertible to 3Ø. On dual-phase units, maximum amp draw is listed.
 3. For factory installation of above controls, add \$60.00 list. Not applicable on 20 or more heaters.
 4. Amperage shown is for single phase.

CEILING MOUNTED FAN-FORCED HEATERS

QFF

APPLICATIONS:

Berko's high-capacity, heavy-duty fan forced ceiling heaters are designed for use almost anywhere in commercial, industrial or institutional areas requiring electric fan forced heaters in 1500 to 4800 watt capacity range where wall space is not available. They perform exceptionally well in such APPLICATIONS: as entryways, hallways, restrooms, stores, detention environments, and similar large areas. They will accommodate pneumatic/electric or low voltage controls commonly used with computerized energy management systems. 1/4 inch mesh screen deters insertion of foreign objects.

FEATURES:

- Built in power On / Off switch.
- When using wall thermostat, separate thermostat wiring is required.
- Heavy duty 14 gauge louvered front cover grille with tamper resistant screws and 1/4 inch mesh screens.
- On / Off switch.



GRILLE: 15-3/4" W x 19-1/8" L x 1" D
ROUGH-IN: 14-3/8" W x 18-1/4" L

Finish: Navajo White

Heavy duty 14 gauge louvered front cover grille with tamper resistant screws and 1/4 inch mesh screens.

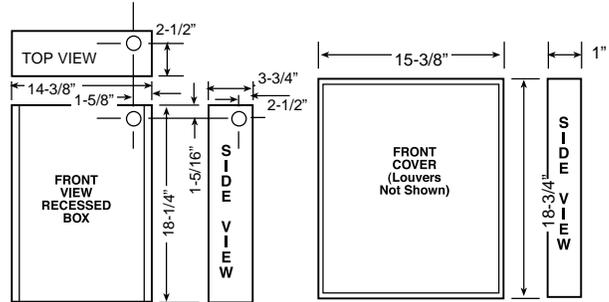
CATALOG NUMBER	UPC 6 85360	VOLTS	CFM	WATTS	BTU/HR.	AMPS	SHIP WT. (LBS.)
QFF1500	14810 6	120	150	1500	5120	12.5	23
QFF3007	05907 5	277	150	3000/1500	10239/5120	10.8/5.4	23
QFF4008	05913 6	208	150	4000/2000	13652/6826	19.2/9.8	23
QFF4004	05909 9	240	150	4000/2000	13652/10239	16.7/14.4	23
		208		3000/1500			
QFF4007	05912 9	277	150	4000/2000	13652/10239	14.4/12.5	23
		240		3000/1500			
QFF4804	05916 7	240/208	150	4800/3600	16382/12287	20.0/17.3	23
QFF4807	05919 8	277/240	150	4800/3600	16382/12287	17.3/15.0	23
QFF48483	15584 5	480	150	4800	16382	5.8	23
QFF48483LV	15586 9	480	150	4800	16382	5.8	23

* Factory wired at higher wattage

ACCESSORIES (optional)

CATALOG NUMBER	UPC 6 85360	DESCRIPTION	SHIP WT. (LBS.)
QFFSM	05895 5	Surface Mounting Sleeve	2
QFFR2 (24V)	05894 8	Time delay relay, 45-60 seconds to close when energized. Uses remote 24V or 120V power source	2
QFFR12 (120V)	05893 1		
QFFTBF	05896 2	T-Bar Frame Kit.	1
*QFFT1	05899 3	Single Pole T-Stat. (Field Installed)	
*QFFT2	05900 6	Double Pole Thermostat. (Field Installed)	3
QFFTR4	05897 9	208/240V Primary Transformer 24V Relay	1
QFFTR7	05898 6	277V Primary 24V Sec. Transformer Relay	1

*Range: 40° - 90°F



CEILING MOUNTED FAN-FORCED HEATERS - QCH

APPLICATIONS:

QCH type fan forced mounted heaters are designed for dens, basements, converted attics, breeze ways, garages, bathrooms, small offices, workshops and similar areas. Also adaptable to multiple installations in somewhat larger or odd shaped rooms.



FEATURES:

- Ceiling Mounted.
- Four Voltages/Dual Ratings.
- Built-in On / Off Switch.
- Three Piece Design.
- 500 to 2000 Watts.
- Recessed or Surface Installation.
- Standard Navajo White Finish.

GRILLE: 10-1/2" L X 12-1/2" X 1" D
HOUSING: 9-3/4" L X 11" W X 3-3/4" D

CATALOG NUMBER	UPC	VOLTS	WATTS	AMPS	CFM	SHIP WT. (LBS.)
QCH1101F	6 85360 05875 7	120	1000	8.3	65	10
			500	4.7		
QCH1151F	6 85360 05876 4	120	1500	12.5	65	10
			750	6.3		
QCH1202F	6 85360 05879 5	240/208	2000/1500	8.3/7.2	65	10
			1000/750	4.2/3.6		
			2000/1500	7.2/6.3		
QCH1207F	6 85360 05880 1	277/240	1000/750	3.6/3.1	65	10

** As shipped - Field adjustable to 1/2 wattage.

ACCESSORIES (optional)

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
QCHSMF	6 85360 05872 6	Surface mounting sleeve, Northern White	
QCHS1F	6 85360 05873 3	1" Semi-Recessed Frame, Northern White	2
QCHS2F	6 85360 05874 0	2" Semi-Recessed Frame, Northern White	
QCHTBF	6 85360 08738 2	T-Bar Frame Kit	5

NOTE: requires 2 separate leads from heater to field supplied single pole wall thermostat.

HORIZONTAL/DOWNFLOW UNIT HEATERS

HUH524TA & HUH724ST

APPLICATIONS:

Auxiliary, supplementary, or primary heat source in factories, stores, garages, basements, warehouses, public buildings, service stations, stockrooms, offices, workshops, toll booths, closing offices, large or exposed areas or additions.

FEATURES:

- Heater comes equipped with ceiling mounting bracket for horizontal or vertical flow mounting or any position in between.
- Built-in single pole thermostat adjusts from 45° to 135°F.
- Eight wattages and two voltages make the HUH524TA field adjustable from 1874 watts at 208 volts to 5000 watts at 240 volts. (See Selection Chart.)

- Automatic control delays fan action until heating element is warm. When thermostat is satisfied, fan continues to operate until heating element is cool. By preventing circulation of cold air and expelling excess heat, comfort level is raised and component life is extended.
- A high-level cutout automatically shuts off current in event of overheating and reactivates the heater when temperature returns to normal.



DIMENSIONS:
14" W X 12-1/2" H X 11-1/4" D



CATALOG NUMBER	UPC 6 85360	VOLTS	WATTS	BTU/HR.	PHASE	FAN MOTOR WATTS	CONTROL CIRCUIT & FAN MOTOR VOLTS	FAN MOTOR RPM	AIR VOLUME CFM	THROW	MIN. MTG. HT.	HEATER AMPS	MIN. CKR. AMPS.	SHIP WT. (LBS.)
HUH524TA	03880 3	208	1874	6396	1	6	208	1350	270	16'	6'	9.0	11.3	24
			2500	8553								12.0	15.0	
			2812	10659								15.0	18.5	
			3750	12799								18.0	22.5	
		240	2500	8533			240					10.4	13.0	
			3332	11365								13.9	17.4	
			3750	14215								17.4	21.8	
			5000	17065								20.9	26.1	
HUH724ST	14870 0	208	2812	9598	1	6	208	1400	270	18'	8'	13.5	11.3	27
			3750	12799								18.0	15.0	
			4685	15990								22.5	18.5	
			5625	19198								27.1	22.5	
		240	3750	12799			240					15.6	19.5	
			5000	17065								20.8	26.0	
			6250	21331								26.0	32.5	
			7500	25598								31.3	39.1	

UNIT HEATERS - PH5HWAC

APPLICATIONS:

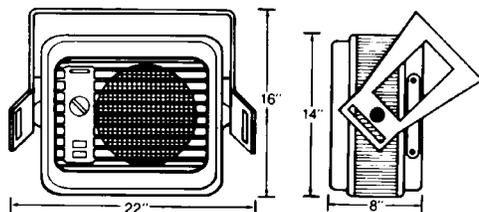
Mounts either on the wall or from the ceiling can be used for primary or spot heating. For factories, garages, schools, etc. Airflow can be directed horizontally, vertically or any position between for precise control.

FEATURES:

- Multiple wattage heat selector switch. Either 5KW or 3.3KW @ 240V (3.7KW or 2.5KW @ 208V) for just the right amount of heat.
- Fan only switch allows fan to cycle automatically with elements or run continuously for air movement when no heat is required.
- Built-in bi-metal thermostat. Range 40° to 90°F.
- Heater is shipped with ceiling/wall bracket.
- Heavy gauge die-formed steel housing.
- Advanced pull-through air flow design draws air across heating element for more even air distribution and cooler element operation.
- Specially designed venturi outlet to meet that added throw as required in vertical position.
- Completely enclosed fan motor.
- Aluminum-finned, copper clad steel sheath heating element has longer useful life, because of cooler sheath temperature and faster heat dissipation.
- This heater uses a manual reset thermal cut-off with reset button located on front for easy access.
- Ruggedly built, yet lighter weight for easier installation. No piping flues, valves, or traps.
- Meets all UL, NEC, and OSHA requirements.



CATALOG NUMBER	UPC 6 85360	VOLTS	WATTS	BTU/HR.	AMPS	SHIP WT. (LBS.)
PH5HWAC	150710	240	5000/3333	17060/11372	21.0/14.0	28
		208	3750/2500	12795/8530	18.0/12.0	
PHCS1B	Cord & Plug Assembly (Optional)					



SPECIFICATIONS

AIR DELIVERY DATA			FAN MOTOR DATA			MAXIMUM EFFECTIVE MOUNTING HEIGHT		HORIZ. AIR THROW	WIRE SIZE.
CFM	FPM	ΔT(°F)	VOLTS	RPM	HP	HORIZ.	VERT.		
210	550	71°	240/208	1600	1/100	8	15	24	AWG 10

HORIZONTAL/DOWNFLOW UNIT HEATERS

HUHAA

APPLICATIONS:

Auxiliary, supplementary or primary heat source in factories, stores, garages, basements, warehouses, public buildings, service stations, stock-rooms, offices, large or exposed areas or additions.

FEATURES:

HORIZONTAL AND DOWNFLOW CAPABILITY

One unit mounts either horizontally or vertically. Totally versatile. In addition, louvers adjust up and down for even greater control of throw direction. Louvers have stops to prevent complete closing of the discharge area. Horizontal and downflow in one unit. 360° positioning. Adjustable louvers.

ELEMENTS

Aluminum-finned, copper clad steel sheath heating element has longer useful life, because of cooler sheath temperature and faster heat dissipation.

Advanced pull-through air flow design draws air across heating element for more even air distribution and cooler element operation.

WIDE RANGE OF POWER AND OUTPUT

32 compatible models. (No need to try to assemble a heating system from 70 to 80 models!)

Forced air unit heater with 10 power ratings, from 3 KW to 50 KW heating output; 208, 240, 277, 347, 480 and 600V. 10,230 to 170,600 BTU/hr.

1- or 3-phase wiring on 5 through 10 KW 208/240V and 15 KW 208V units (field interchangeable).

Branch circuit fusing (when required to meet NEC requirements for maximum 24 amps/ckt).

STAGING

Two-stage operation is available.

2- speed fan selector switch (25 to 50 KW models).

AUTOMATIC FAN DELAY

Automatic control delays fan action until heating element is warm. When thermostat is satisfied, fan continues to operate until heating element is cool. By preventing circulation of cold air and expelling excess heat, comfort level is raised and component life is extended.

THERMAL CUTOUT

Automatic reset linear thermal cut-out capillary type, provides protection over entire length of element area. (Manual reset protection available on made-to-order basis).

LONG, DIRECTED HEAT THROWS

Specially designed venturi outlet to meet that added throw required in vertical position.

Choice of optional diffusers for variety of air patterns, maximizing heat concentration and coverage in the vertical position.

HUHAA Series unit heaters are made of heavy gauge die-formed steel housing painted with Statuary Bronze powder paint. Small to medium case construction is 20 ga. steel. The larger cabinet is 18 ga. steel.



24-VOLT AND OPTIONAL 120-VOLT CONTROLS

24V control transformer standard on most models, providing a safer and more accurate means of temperature control (Optional 120V). 3 KW and 5 KW, 208-277V, have line voltage controls as standard. (24V or 120V control available on made-to-order basis).

SMOOTH, QUIET OPERATION

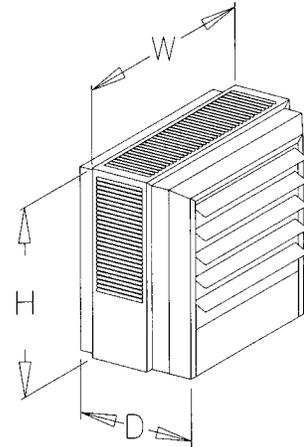
Ruggedly built, yet lighter weight for easier installation. No piping flues, valves, or traps. Heavy gauge die-formed steel housing. Large, dynamically balanced fan blades provide maximum air flow with minimum turbulence and noise. Rugged, totally enclosed motor.



CATALOG NUMBER	UPC 6 85360	VOLTS	KW	AMPS	PH	2-STAGE ELEM.	STD. CONTROL VOLTS	AIR DELIVERY CFM (See Note 2&4)	FPM (See Note 2)	ΔT (F)	MOTOR RPM (See Note 2)	HP	HORIZ. AIR THROW	SHIP WT. (LBS.)
HUHAA320	03688 5	208	3	14.5	1	NA	208	350	800	27	1600	1/100	12	24
**HUHAA520	03697 7	208	5	24	1-3	5A	208	350	800	45	1600	1/100	12	24
HUHAA720	03701 1	208	7.5	36	1-3	5B	24	650	970	37	1600	1/30	18	36
HUHAA1020	03673 1	208	10	48	1-3	5B	24	650	970	49	1600	1/30	18	36
HUHAA1520	03677 9	208	15	72	1-3	5A	24	910	1640	52	1530	1/20	35	56
HUHAA2020	03680 9	208	20	56	3	5A	24	1320	2060	48	1500	1/10	41	63
HUHAA3020	03685 4	208	30	84	3	5A	24	2100/1800	2100/2030	45/53	1600/1375	1/4	50	91
HUHAA5020	03694 6	208	50	139	3	5A	24	3000/2600	3260/2900	53/61	1525/1420	1/2	60	125
HUHAA324	03689 2	208/240	2.2/3.0	11.0/12.5	1	NA	208/240	350	800	27	1600	1/100	12	24
**HUHAA524	03698 4	208/240	3.7/5.0	18.0/21.0	1-3	5A	208/240	350	800	45	1600	1/100	12	24
HUHAA724	03702 8	208/240	5.6/7.5	27.0/31.3	1-3	5B	24	650	970	37	1600	1/30	18	36
HUHAA1024	03674 8	208/240	7.5/10.0	36.0/42.0	1-3	5B	24	650	970	49	1600	1/30	18	36
HUHAA1524	03678 6	208/240	11.2/15.0	31.3/36.1	3	5C	24	910	1640	52	1530	1/20	35	56
HUHAA2024	03681 6	208/240	15.0/20.0	41.2/48	3	5C	24	1320	2060	48	1500	1/10	41	33
HUHAA2524	03683 0	208/240	18.7/25.0	52.0/60.0	3	5A	24	2100/1800	2100/2030	38/44	1600/1375	1/4	50	91
HUHAA3024	03686 1	208/240	22.5/30.0	63.0/72.3	3	5A	24	2100/1800	2100/2030	45/53	1600/1375	1/4	50	91
HUHAA4024	03692 2	208/240	30.0/40.0	83.4/96.4	3	5A	24	3000/2600	3260/2900	42/49	1525/1420	1/2	60	125
HUHAA5024	03695 3	208/240	37.5/50.0	104.2/120.0	3	5A	24	3000/2600	3260/2900	53/61	1525/1420	1/2	60	125
HUHAA327	03690 8	277	3	11	1	NA	277	350	800	27	1600	1/100	12	24
HUHAA527	03699 1	277	5	18	1	NA	277	350	800	45	1600	1/100	12	24
HUHAA727	03703 5	277	7.5	27	1	5B	24	650	970	37	1600	1/30	18	36
HUHAA1027	03675 5	277	10	36	1	5B	24	650	970	49	1600	1/30	18	36
HUHAA348	03691 5	480	3	3.6	3	NA	24	350	800	27	1600	1/100	12	24
HUHAA548	03700 4	480	5	6	3	NA	24	350	800	45	1600	1/100	12	24
HUHAA748	03704 2	480	7.5	9	3	5B	24	650	970	37	1600	1/30	18	36
HUHAA1048	03676 2	480	10	12	3	5B	24	650	970	49	1600	1/30	18	36
HUHAA1548	03679 3	480	15	18	3	5C	24	910	1640	52	1530	1/20	35	56
HUHAA2048	03682 3	480	20	24	3	5C	24	1320	2060	48	1500	1/10	41	63
HUHAA2548	03684 7	480	25	30	3	5C	24	2100/1800	2100/2030	38/44	1600/1375	1/4	50	91
HUHAA3048	03687 8	480	30	36	3	5C	24	2100/1800	2100/2030	45/53	1600/1375	1/4	50	91
HUHAA4048	03693 9	480	40	48	3	5A	24	3000/2600	3260/2900	42/49	1525/1420	1/2	60	125
HUHAA5048	03696 0	480	50	60.2	3	5A	24	3000/2600	3260/2900	53/61	1525/1420	1/2	60	125

DIMENSIONS

HEATER	HEIGHT	WIDTH	DEPT
3 & 5	16"	14"	8-1/2"
7.5 & 10	21-3/4"	19"	8-1/2"
15 & 20	21-3/4"	19"	13-3/4"
25 & 30	30"	26-5/8"	13-3/4"
40 & 50	30"	26-5/8"	18-1/8"



MOUNTING LIMITATIONS

Unit heaters should not be used in potentially explosive atmospheres. The finish is not intended for direct salt spray exposure in marine applications or the highly corrosive atmospheres of swimming pools, chemical storage bins, etc.

Do not install unit heaters above recommended maximum mounting height. Obstructions must not block unit heater air inlet or discharge. Heaters must be mounted at least 7' above the floor to prevent accidental contact with the heating element or fan blade which could cause injury.

OPTIONAL FIELD INSTALLED ELECTRICAL CONTROLS

CATALOG NUMBER	UPC	ACCESSORY	ELECTRICAL RATING	USE WITH	SHIP WT. (LBS)
UHMT1**	6 85360 15241 7	Single Pole Internal Thermostat-Temp. Range: 40F - 85F 125VA Pilot Duty	25A @ 120, 240VAC Res. 22A @ 277VAC Res.	All HUHA Series Heaters (except 5KW, 208 volt, 3 ph and 208/240 volt 3 ph which use HUHAAMT-2)	1
UHMT2**	6 85360 15242 4	Two Stage Internal Thermostat-Temp. Range: 40F - 85F 125VA Pilot Duty	25A @ 120, 240VAC Res. 22A @ 277VAC Res.	5 KW, 208 volt, 3 ph & 208/240 volt 3 ph, 208 volt: 15, 20, 30 & 50 KW, 208/240 volt: 25, 30, 40 & 50 KW, 480 volt: 40 & 50 KW heaters	1
HUHAAFS*	6 85360 03661 8	Internal Summer Fan Switch 480, 600VAC	6A, 600VAC Res. 2 HP - 250,	All HUHA Series Heaters	1
HUHAARFS1	6 85360 03671 7	Remote Summer Fan Switch (Line Voltage)	2 HP, 250-480VAC	All HUHA Series Heaters	1
HUHAARFS2*	6 85360 03672 4	Remote Summer Fan Switch with Relay (24V Coil-Single Pole Normally Open)	6 AFL, 35 ALR, 250VAC, 60Hz 3 AFL, 18 ALR, 480VAC, 60Hz	All HUHA Series Heaters (except 3 & 5 KW & 208, 208/240 & 277 volt units, unless optional control transformer is supplied)	1
HUHAHR*	6 85360 03662 5	Heat Recovery Thermostat with Relay (24V Coil-Single Pole Normally Open) Hi - 120F, Low - 60F	6 AFL, 35 ALR, 250VAC, 60Hz 3 AFL, 18 ALR, 480VAC, 60Hz	All HUHA Series Heaters (except 3 & 5 KW & 208, 208/240 & 277 volt units, unless optional control transformer is supplied)	1
HUHAADS25	6 85360 03659 5	Power Disconnect Switch (3 Pole)	25A @ 600VAC, Res. 480 volt heaters.	All 3 & 5 KW Heaters and 7.5, 10, 15 & 20 KW	1
HUHAADS60	6 85360 03660 1	Power Disconnect Switch (3 Pole)	63A @ 600VAC, Res.	208 volt: 15 (3 ph only) & 20 KW, 208/240 volt: 15, 20 & 25 KW	1

NOTE: *Summer Fan Switch HUHAAFS cannot be used with Remote Fan Switch/Relay HUHAARFS2 or with Heat Recovery Thermostat/Relay HUHAHR. **HUHAHR cannot be used with UHMT1 or UHMT2.

NOTE: Model HUHAADS-60 disconnect switch is not suitable for field installation on 7.5 & 10 kW unit heaters.

NOTE: We can not supply an intergral disconnect for 60 amp heaters.

NOTE: Disconnect switch cannot be installed in 60 amp heater cabinet.

NOTE:

- All standard units are supplied with a low voltage control transformer and contactor (24V) except HUHA-3 & 5 Kw, 208, 240, & 277 volt models. Low voltage control on these units is available on made-to-order. All units are also available on special order 120 volt control; internal with transformer or external without transformer.
- On dual voltage units, CFM, FPM, and RPM are shown at higher voltage.
- On dual phase units, maximum amp draw is listed for respective voltage.
- 25 thru 50 Kw models have two speed motors and dual CFM ratings.
- 5A. Standard.
- 5B. Optional-made to order-amp load unbalanced on 3 phase.
- 5C. Optional-made to order-amp load balanced on 3 phase.

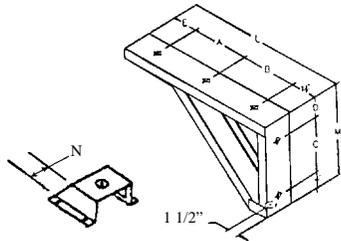
** Must use 2-stage Thermostat on 3Ø operation.

* Must use 2-stage Thermostat with units that have 2 stage elements - optional or standard.

OPTIONAL FIELD INSTALLED MECHANICAL CONTROLS

HUHAA

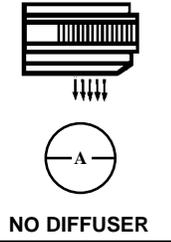
UNIVERSAL WALL & CEILING MOUNTING BRACKET NUMBER	CEILING MOUNTING BRACKET CATALOG NO.	USED ON HEATER KW
B10	CMB10	3.5, 7.5, & 10
B20	CMB20	15 & 20
B30	CMB30	25 & 30
B50	CMB50	40 & 50



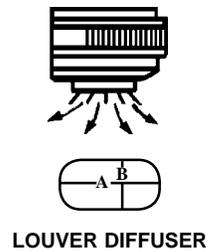
DIM	3-20KW	25-50KW
A	7-1/4"	9-7/16"
B	9-1/2"	14-3/8"
C	7-1/4"	12-1/8"
D	1-15/16"	2-1/16"
E	2-1/4"	3"
L	20-1/2"	28-5/16"
N	3-1/4"	4-1/2"

DIFFUSER PATTERN AND AREA

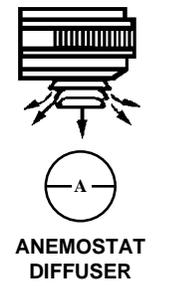
DIFFUSER CAT.NO.	HEATER KW	MAX MNT. HT.	A DIM
NONE	3 & 5	9	18
NONE	7.5 & 10	14	26
NONE	15	20	35
NONE	20	23	40
NONE	25	23	63
NONE	30	20	55
NONE	40	28	70
NONE	50	25	63



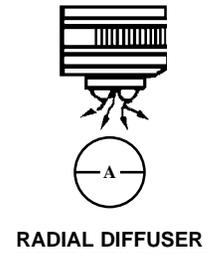
DIFFUSER CAT. NO.	HEATER KW	MAX MNT. HT.	A DIM	B DIM
HUHAALDS	3 & 5	9	25	12
HUHAALDM	7.5 & 10	14	39	19
HUHAALDM	15	18	50	25
HUHAALDM	20	20	56	28
HUHAALDL	25	23	68	32
HUHAALDL	30	20	72	36
HUHAALDL	40	24	88	44
HUHAALDL	50	22	80	40



DIFFUSER CAT. NO.	HEATER KW	MAX MNT. HT.	A DIM
HUHAALDS	3 & 5	8	18
HUHAALDM	7.5 & 10	12	26
HUHAALDM	15	15	35
HUHAALDM	20	17	40
HUHAALDL	25	19	60
HUHAALDL	30	17	55
HUHAALDL	40	22	77
HUHAALDL	50	20	70



DIFFUSER CAT. NO.	HEATER KW	MAX MNT. HT.	A DIM
HUHAALDS	3 & 5	9	20
HUHAALDM	7.5 & 10	14	31
HUHAALDM	15	18	40
HUHAALDM	20	20	45
HUHAALDL	25	23	69
HUHAALDL	30	20	50
HUHAALDL	40	24	75
HUHAALDL	50	22	68



OPTIONAL DUST SHIELDS

CATALOG NUMBER	USED ON	SHIP WT. (LBS.)
JRDS8	HUHAA03-10	3.0
JRDS14	HUHAA15-20	6.0
JRDS19	HUHAA25-50	8.0

Dust shields have a two week lead time

CATALOG NUMBER	UPC	DESCRIPTION	SHIP WT. (LBS.)
B10	6 85360 15229 5	Wall / Ceiling Mounting Bracket for 3KW to 10KW Units	8
B20	6 85360 15230 1	Wall / Ceiling Mounting Bracket for 15KW & 20KW Units	10
B30	6 85360 15231 8	Wall / Ceiling Mounting Bracket for 25KW & 30KW Units	13
B50	6 85360 15232 5	Wall / Ceiling Mounting Bracket for 40KW & 50KW Units	15
CMB10	6 85360 15236 3	Ceiling Mounting Bracket for 3KW to 10KW Units	3
CMB20	6 85360 15237 0	Ceiling Mounting Bracket for 15KW & 20KW Units	4
CMB30	6 85360 15238 7	Ceiling Mounting Bracket for 25KW & 30KW Units	5
CMB50	6 85360 15239 4	Ceiling Mounting Bracket for 40KW & 50KW Units	6
VDMB5	6 85360 15245 5	Vertical Discharge Ceiling Bracket for 3KW & 5KW Units	5
VDMB20	6 85360 15246 2	Vertical Discharge Ceiling Bracket for 7.5KW to 20KW Units	7
VDMB50	6 85360 15247 9	Vertical Discharge Ceiling Bracket for 25KW to 50KW Units	9
HUHAALDS	6 85360 03665 6	Louvered Diffuser for 3 & 5KW Units	5
HUHAALDM	6 85360 03664 9	Louvered Diffuser for 7.5 - 20KW Units	8
HUHAALDL	6 85360 03663 2	Louvered Diffuser for 25 - 50KW Units	10
† HUHAARDS	6 85360 03670 0	Radial Diffuser for 3 & 5KW Units	5
† HUHAARDM	6 85360 03669 4	Radial Diffuser for 7.5 thru 20KW Units	6
† HUHAARDL	6 85360 03668 7	Radial Diffuser for 25 thru 50KW Units	10
† HUHAARDS	6 85360 03653 3	Anemostat Diffuser for 3 & 5KW Units	7
† HUHAADM	6 85360 03652 6	Anemostat Diffuser for 7.5 -20KW Units	10
† HUHAADL	6 85360 03651 9	Anemostat Diffuser for 25 -50KW Units	21

INDUSTRIAL UNIT HEATERS

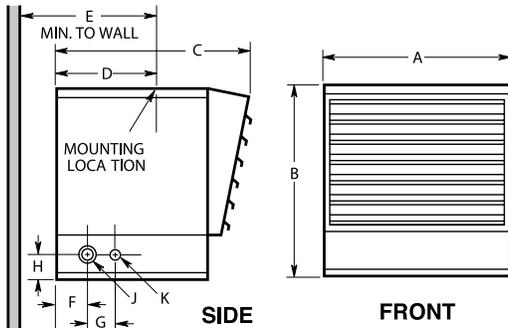
HUH

APPLICATIONS:

- Applications include primary, supplementary, or auxiliary heat source in factories, stores, warehouses, public buildings, service stations, workshops, large or exposed areas or additions.
- All motors and contactor coils are 240 volt and operate on the secondary of a factory-installed step-down power transformer on 480 and 600 volt heaters so a separate fan and motor control power source is not needed.
- Steel fins are copper brazed to low watt density, steel-sheathed tubular heating elements. Fins and elements are arranged in a uniform grid pattern and fit closely into the air discharge area to assure that all incoming air passes through the heating element. Element is finished with aluminized paint for corrosion resistance. Uniform discharge of all heated air lowers internal operating temperatures and prolongs element life.
- A high-limit cutout automatically shuts off current in the event of overheating and reactivates the heater when temperature returns to normal.
- 5KW and 7.5KW heaters can be used in horizontal or vertical position. SA Models come equipped with ceiling mounting bracket for horizontal or vertical flow mounting or any position in between.
- Cabinet is finished with a polyester powder coating for excellent corrosion resistance. The finished color is neutral grey.



DIMENSIONS



CONTROLS & ACCESSORIES

CATALOG NUMBER	UPC 6-85360	DESCRIPTION	SHIP WT. (LBS.)
CWB1A	01820 1	Combination wall/ceiling bracket for 5KW thru 15KW units	4
CWB2A	15240 0	Same as above but for 20KW thru 50KW units	14
UHTA1	15243 1	Single pole thermostat kit 60-120°F temp. range for field installation in all nits except 3Ø HUH520SA & HUH524SA	1
UHTA2	15244 8	Double Pole Thermostat (60-120°F) for 3Ø HUH520SA & HUH524SA	1
DS30	01995 6	3-pole power disconnect switch kit for field installation on all horizontal unit heaters rated 24 amps or less	1
DS63	01996 3	3-pole power disconnect switch kit for field installation on all horizontal unit heaters 10KW and above rated 24 to 50 amps	1
SW	03672 4	Summer-Winter fan switch kit. Field installed. Provides summer fan operation	1

NOTE: For factory installation of marked control only (Contact factory for pricing). Not applicable on 20 or more heaters. When controls are to be factory installed, list unit, control, and factory installation adder separately.

KW SIZE	A	B	C	D	E	F	G	H	I	J
5-7.5	14"	12-1/2"	12-3/8"	5-1/2"	13"	1-3/4"	1-3/8"	1-1/2"	(2) 1/2", 3/4"	1/2"
10-20	18"	18"	17-1/2"	9-15/32"	*	2"	2-1/2"	2-1/4"	(2) 3/4", 1"	(3) 1", 1-1/4", 1-1/2"
25-30	26"	24"	23-1/8"	9-15/32"	20"	2"	2 3/4"	2-1/4"	(2) 1", 1-1/2"	(3) 1", 1-1/2", 2"

*13" for 10-15 KW units; 16" for 20 KW units.

NOTE: HUH-SA Series Heaters, 5KW and 7.5 KW can be used in horizontal vertical position. Heaters come equipped with ceiling mounting bracket for horizontal or vertical flow mounting or any position between.

CATALOG NUMBER	UPC 6-85360	KW. CAP.	BTU/ HR.	HTR. VOLT	PHASE	THREADED ROD SIZE	FAN MTR CONT. CKT.			FAN & FAN MOTOR VOLTAGE	AIR MOTOR RPM	AIR VOL. CFM	TEMP. RISE	MAX THROW	MFG. HEIGHT	SHIP WT. (LBS.)
							HEATER 10	AMPS 30	HP or WATTS							
HUH520SA	03861 2	5	17	208	1-3	1/2"-13 NC	20.8	12.5	6.0W	208	1400	270	60°F	16'	8'	26
HUH524SA	03871 1	5	17	240	1-3	1/2"-13 NC	24	13.8	6.0W	240	1400	270	60°F	16'	8'	26
HUH548SA	03893 3	5	17	480	1-3	1/2"-13 NC	10.4	6	6.0W	240	1400	270	60°F	16'	8'	31
HUH560SA	03903 9	5	17	600	3	1/2"-13 NC	-	4.8	6.0W	240	1400	270	60°F	16'	8'	31
HUH724SA	03912 1	7.5	25.6	240	1-3	1/2"-13 NC	31.3	18.1	6.0W	240	1400	270	85°F	18'	8'	27
HUH748SA	03926 8	7.5	25.6	480	1-3	1/2"-13 NC	15.6	9	6.0W	240	1400	270	85°F	18'	8'	31
HUH760SA	03937 4	7.5	25.6	600	3	1/2"-13 NC	-	7.2	6.0W	240	1400	270	85°F	18'	8'	31
HUH1024M	03713 4	10	34.1	240	1-3	1/2"-13 NC	41.7	25.7	1/10 HP	240	1550	500	63°F	20'	9'	62
HUH1048M	03723 3	10	34.1	480	1-3	1/2"-13 NC	21.6	12.8	1/10 HP	240	1550	500	63°F	20'	9'	72
HUH1060M	03729 5	10	34.1	600	3	1/2"-13 NC	-	9.6	1/10 HP	240	1550	500	63°F	20'	9'	72
HUH1524M	03744 8	15	51.2	240	1-3	1/2"-13 NC	64.1	37.7	1/10 HP	240	1550	750	63°F	28'	11'	68
HUH1548M	03754 7	15	51.2	480	1-3	1/2"-13 NC	32.1	18.8	1/10 HP	240	1550	750	63°F	28'	11'	78
HUH1560M	03765 3	15	51.2	600	3	1/2"-13 NC	-	14.5	1/10 HP	240	1550	750	63°F	28'	11'	80
HUH2048M	03776 9	20	68.2	480	1-3	1/2"-13 NC	42.5	24.8	1/10 HP	240	1550	1000	63°F	32'	13'	78
HUH2060M	03781 3	20	68.2	600	3	1/2"-13 NC	-	19.3	1/10 HP	240	1550	1000	63°F	32'	13'	80
HUH2548L	03806 3	25	85.2	480	3	1/2"-13 NC	-	31.1	1/3 HP	240	1550	1300	61°F	34'	14'	136
HUH2560L	03813 1	25	85.2	600	3	1/2"-13 NC	-	24	1/3 HP	240	1550	1300	61°F	34'	14'	142
HUH3048L	03818 6	30	102.2	480	3	1/2"-13 NC	-	36.9	1/3 HP	240	1550	1800	53°F	38'	15'	142
HUH3060L	03822 3	30	102.2	600	3	1/2"-13 NC	-	28.9	1/3 HP	240	1550	1800	53°F	38'	15'	142

CABINET UNIT HEATERS

CUH900

APPLICATIONS:

Attractive cabinet enclosure blends into the decorative schemes of commercial areas.

Used in offices, stores, schools, churches, hospitals, dormitories, airport terminals, reception rooms, entrance lobbies, corridors, and stairways.

FEATURES:

Basic cabinet can be mounted on the ceiling, floor or wall.

Heaters can be mounted on the surface, full recessed or semi-recessed.

Heater can be mounted for air discharge up or down or with the heater mounted on end the air can be discharged either left or right, to provide an air door effect.

Cabinet constructed of heavy 16 gauge cold-rolled steel structurally formed to provide strength and rigidity for normal heavy wear and usage. Cabinet is finished with a polyester powder coating for excellent corrosion resistance. The finished color is neutral grey. (Decorator colors optional.)

Nineteen capacities - 2Kw to 32Kw; five cabinet styles - 35", 45", 58", 68" and 78" lengths (26-3/8" height x 9-3/4" deep).

1/8 hp, PSC, motors are two-speed (1550/1450 rpm).

Motors are resilient mounted with automatic thermal overload protection. Motor fuse protection is provided on all heaters to meet UL, cUL and NEC requirements.

Plate fin element - steel fins are copper brazed to low watt density, steel-sheathed tubular heating elements. (80/20 NiCh resistance wire). Element is finished with aluminized paint for corrosion resistance. Fins and elements are arranged in a uniform grid pattern and fit closely into the discharge area to assure that all outgoing air passes through the heating element.

Thermal safety cutout - installed in direct contact with the heating element. Automatically shuts off the heater in the event of overheating due to any cause and reactivates the heater when operating temperature returns to normal.

Optional - manual reset thermal safety cutout available.

Heaters over 48 amperes have subdivided (**circuit breaker protected**) circuits.

Circuit breakers are available as an option on heaters of less than 48 amps.

Built-in thermostat - single pole, snap-action thermostat with remote bulb sensor located directly in the air intake. (*Optional* - built-in two stage thermostat available). Easy and low cost field installation of a completely packaged heater.

Optional - architectural styled grille available. Standard heaters are equipped with stamped louvered grilles. As an option, the heater can be ordered with architectural styled extruded aluminum grilles for that "professional" appearance. Standard color is statuary bronze unless otherwise noted.

24 volt control system - all internal controls, including the thermostat, are operated from a built-in pre-wired transformer with a 24 volt secondary. (*Optional* - 120 volt built-in control available.) Heaters have a tamper-resistant, two position selector switch to select full heat at high fan speed and reduced heat at low fan speed.

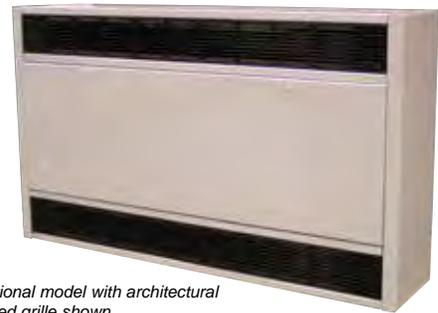
Optional built-in **fan auto-continuous (Summer fan) switch** provides continuous fan operation with or with-out heat, or automatic fan cycling as the elements cycle on and off.

Automatic fan delay eliminates cold drafts on start-up and discharges residual heat from the heater body during shut down.

Silent relays, instead of conventional contactors, eliminate the noise of contactor opening and closing.

Optional - low voltage, electronically controlled **outside air damper** with rear mounted duct collar or vinyl seal permits infinite adjustment of outside air from 0% to 100%. Damper closes automatically in event of power failure or if the "On - Off" switch is in the off position. Also closes when the "Open - Closed" switch on the control panel is in the closed position. (When ordered with night set back relay, damper will be factory wired to close automatically when night set back is in effect).

NOTE: Front inlet only - not available with bottom inlet.



Optional model with architectural styled grille shown

An **aluminum wall louver** option provides a finished touch to the exterior of masonry or panel walls with thickness of 2-3/4" or greater.

Optional - **inlet and discharge duct collars - UL listed** - provide easy field connection to field supplied duct work. We do not recommend exceeding 0.15" wg external static pressure.

Each CU9000 heater is supplied with a throw-away air filter mounted in the inlet air stream. *Optional* permanent (washable) aluminum filters are available.

A **front cover interlock** is a standard safety feature that de-energizes the heater when the front cover is removed.

Optional - **dead front disconnect switch or fused dead front disconnect switch**, disconnects power to the heater. Control panel access door can not be opened until power is turned off.

Terminals are provided for BAS/EMS tie-in of dry contacts for night set back.

Optional - built-in **night set back relay** provides ability to set back heater from energy management systems that supply 24 volts to the relay for day operation.

Optional - built-in **on - off switch** allows the heater to be de-energized when not in use.

An optional **trim kit** is available for a neat finish to semi-recessed or full recessed APPLICATIONS:.

A 16 gauge optional **kick plate** in muted black, which is recessed from the heater front and sides by one inch, makes an attractive and practical off-the-floor installation.

Optional - inlet and/or discharge duct collars.

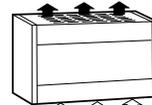
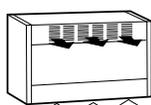
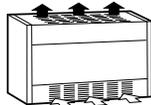
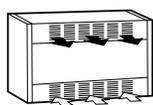
MULTIPLE AIR FLOW COMBINATIONS

FRONT INLET
FRONT OUTLET (FFO)

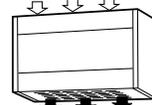
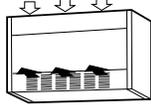
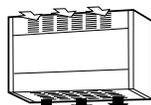
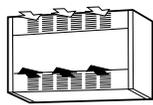
FRONT INLET
TOP OUTLET (FTO)

BOTTOM INLET
FRONT OUTLET (BFO)

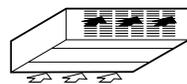
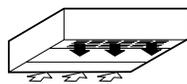
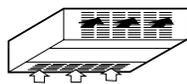
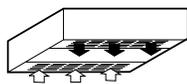
BOTTOM INLET
TOP OUTLET (BTO)



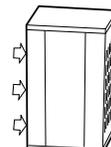
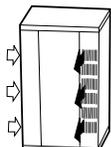
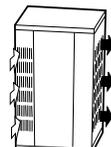
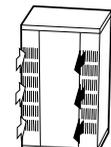
WALL



WALL
INVERTED



CEILING



ON END



HOW TO ORDER

PRODUCT	SERIES	LENGTH	KW	VOLTS	PHASE	INLET AIR	DISCHARGE AIR	MODEL	T' STAT	CONTROL SUPPLY	CIRCUIT BREAKER	MANUAL RESET	SUMMER FAN SWITCH	DISCONNECT SWITCH	HEAT ON-OFF SWITCH	NIGHT SETBACK RELAY	FILTER	OUTSIDE AIR DAMPER	FRONT COVER KEY LOCK	DUCT COLLARS/GRILLES
C U H 9								B												

Cabinet Unit Heater

900 Series

- 35 = 35" Cabinet Length
- 45 = 45" Cabinet Length
- 58 = 58" Cabinet Length
- 68 = 68" Cabinet Length
- 78 = 78" Cabinet Length

See Chart (2 KW = 02, 32 KW = 32)

- 20 = 208 Volt Supply Power
- 24 = 240 Volt Supply Power
- 27 = 277 Volt Supply Power
- 34 = 347 Volt Supply Power
- 38 = 380 Volt Supply Power (3-Phase Only)
- 48 = 480 Volt Supply Power (3-Phase Only)
- 60 = 600 Volt Supply Power (3-Phase Only)

- 1 = Single Phase Supply Power
- 3 = Three Phase Supply Power

- F = Front Inlet Air Configuration
- B = Bottom Inlet Air Configuration

- F = Front Discharge Air Configuration
- T = Top Discharge Air Configuration

Series Model Number

- A = Architectural Extruded Aluminum Grille
- 0 = Standard Louver Grilles
- I = Inlet Duct Collars/Discharge Louver Grille
- D = Inlet Louver Grille/Discharge Duct Collar
- B = Inlet Duct Collar/Discharge Duct Collar

- 0 = Standard Lock
- K = Key Lock

- 0 = Standard, No Outside Air Damper (must be 0 for bottom inlet)
- A = Motorized 100% Outside Air Damper

- 0 = Standard Throw-away Filter
- P = Permanent "Washable" Filter

- 0 = Standard, No Night Setback Relay
- 1 = Night Setback Relay (120 Volt Holding Coil)
- 2 = Night Setback Relay (24 Volt Holding Coil)

- 0 = Standard, No ON - OFF Switch
- S = ON - OFF Switch

- 0 = Standard, No Disconnect Switch
- S = Disconnect Switch
- F = Fused (Circuit Breaker) Disconnect Switch

- 0 = Standard, No Summer Fan Switch
- S = Summer Fan Switch

- 0 = Standard, No Manual Reset
- M = Manual Reset

- 0 = No Circuit Breaker(s)
- C = Circuit Breaker(s), Required or Optional

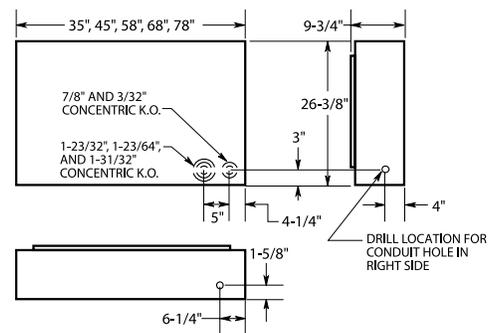
- 2 = Standard Internal Generated 24 Volt Control
- 1 = Internal Generated 120 Volt Control

- 1B = Standard Single Pole, Single Stage Built-In Thermostat
- 1R = Single Pole, Single Stage Remote (Wall Thermostat)
- 2B = Two Stage Built-In Thermostat
- 2R = Two Stage Remote (Wall Thermostat)

ACCESSORIES (optional)

CATALOG NUMBER	DESCRIPTION	USE WITH HEATER SERIES	FUNCTION	SHIP WT. (LBS.)
CUH935RTK	Ceiling or wall Recess Trim Kit	CUH935	Provides a neat finish to semi-recessed or full recessed applications	3
CUH945RTK		CUH945		4
CUH958RTK		CUH958		5
CUH968RTK		CUH968		6
CUH978RTK		CUH978		7
CUH935BK	Floor/Toe-Space Base Kit	CUH935	16 gauge, muted black base is recessed from the heater front and sides to provide an attractive and practical floor mounting application	9
CUH945BK		CUH945		10
CUH958BK		CUH958		11
CUH968BK		CUH968		13
CUH978BK		CUH978		15
CUH935AWL	100% Outside Air, Exterior Aluminum Wall Louver	CUH935	Used on exterior of masonry or panel walls of 2-3/4" or greater to provide a finished exterior; For heaters with 100% outside dampers	5
CUH945AWL		CUH945		6
CUH958AWL		CUH958		7
CUH968AWL		CUH968		9
CUH978AWL		CUH978		10
CUH935WF	Permanent, Reusable Washable Filter	CUH935	Replaces standard filter; Washable filter can be cleaned and replaced	4
CUH945WF		CUH945		6
CUH958WF		CUH958		8
CUH968WF		CUH968		10
CUH978WF		CUH978		12

DIMENSIONS



CABINET UNIT HEATERS

SERIES	HEATING CAPACITY		FINAL AIR TEMP (Deg. F)	CFM*	TOTAL LINE AMPERAGE (Includes motor amps)									
	KW	BTU/HR			208 1 PH 60 HZ	208 3 PH 60 HZ	240 1 PH 60 HZ	240 3 PH 60 HZ	277 1 PH 60 HZ	347 1 PH 60 HZ	380** 3 PH 60 HZ	480 3 PH 60 HZ	600 3 PH 60 HZ	
CUH935 CABINET LENGTH 35 in. 120 LBS.	2	6,826	85	250	10	6	9	6	8	7	4	3	3	
	3	10,239	98		15	9	13	8	12	9	5	4	4	
	4	13,652	111		20	12	17	10	15	12	7	6	5	
	5	17,065	123		25	15	22	13	19	15	8	7	6	
	6	20,478	136		30	17	26	15	22	18	10	8	7	
	7	23,891	148		34	20	30	18	26	21	11	9	7	
	8	27,304	161		39	23	34	20	30	24	13	10	8	
	CUH945 CABINET LENGTH 45 in. 160 LBS.	4	13,652		85	500	20	12	18	11	16	13	7	6
6	27,478	98	30	18	26		16	23	18	10	8	7		
8	27,304	111	40	23	34		20	30	24	13	11	9		
10	34,130	123	48	29	43		25	37	30	16	13	11		
12	40,956	136	59	34	51		30	44	36	19	16	13		
14	47,782	148	68	40	59		35	52	41	22	18	15		
16	54,608	161	78	46	68		40	59	47	25	20	17		
CUH958 CABINET LENGTH 58 in. 200 LBS.	6	20,478	85	750	30		18	26	16	23	18	10	8	7
8	27,304	96	40		23	34	20	30	24	13	11	9		
10	34,130	103	48		29	43	25	37	30	16	13	11		
12	40,956	111	59		34	51	30	44	36	19	16	13		
14	47,782	118	68		40	59	35	52	41	22	18	15		
16	54,608	128	78		46	68	40	59	47	25	20	17		
CUH968 CABINET LENGTH 68 in. 260 LBS.	6	20,478	85		750	31	19	27	16	24	19	11	9	8
9	30,717	98	45			27	39	24	34	28	16	13	11	
12	40,956	111	60	35		52	31	45	36	20	16	13		
15	51,195	123	74	44		64	38	56	45	25	20	16		
18	61,434	136	88	52		77	45	67	N/A	29	24	19		
21	71,673	148	N/A	60		89	52	78	N/A	34	27	22		
24	81,912	161	N/A	69		N/A	60	N/A	N/A	38	31	25		
CUH978 CABINET LENGTH 78 in. 300 LBS.	8	27,304	85	1,000		41	24	36	21	31	25	14	12	10
12	40,956	98	60		36	52	31	46	37	20	17	14		
16	54,608	111	79		47	69	41	60	48	27	21	18		
20	68,260	123	N/A		58	86	50	74	N/A	33	26	21		
24	81,912	136	N/A		69	N/A	60	N/A	N/A	39	31	25		
28	95,564	148	N/A		80	N/A	70	N/A	N/A	45	36	29		
32	109,216	161	N/A		91	N/A	79	N/A	N/A	N/A	41	33		

+ Based on 60 degree F inlet air temperature. *Values shown is high speed

NUMBERS IN BLUE - CIRCUIT BREAKERS or FUSED DISCONNECT REQUIRED **380 volt units will operate with a 16% reduction in heating capacity

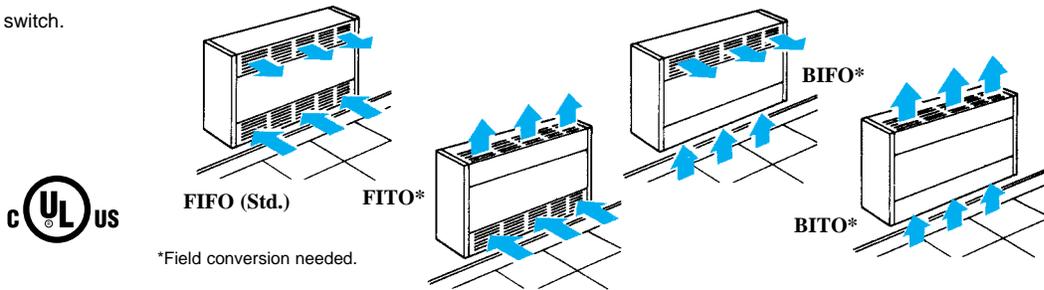
PRICE ADDERS FOR OPTIONAL FACTORY INSTALLED ACCESSORIES		
SERIES		FUNCTION
2 STAGE THERMOSTAT Built-or Remote	Standard	Built-in (or remote mounted) single pole, single stage thermostat that cycles the element(s) and fan. Fan speed and element wattage selected by the built- HIGH or LOW selector switch.
	Optional	Built-in (or remote mounted) two stage thermostat that the elements for 2/3 heat for stage one and full heat for second stage. Fan cycles on high speed only.
120 VOLT CONTROL Internally Generated	Standard	Control supply is internally generated 24 volts. Field supplied 24 volt control supply can be applied to heater. (Requires removing only one jumper wire in the control panel).
	Optional	120 volt internally generated control voltage is available. Field supplied 120 volt control supply can be applied to heater. (Requires removing only one jumper wire in the control panel.)
MANUAL RESET	Standard	Heater is supplied with auto-reset over temperature cutout.
	Optional	Manual Reset over temperature cutout wired into control circuit. Supplied in addition to auto-reset cutout.
DEAD FRONT DISCONNECT SWITCH	Standard	Supply terminal block in the control compartment
	Optional	A three pole non-fused disconnect switch disconnects power to the heater. Design prevents entry into the control compartment until disconnect switch is turned to the OFF position.
DEAD FRONT FUSED DISCONNECT SWITCH	Standard	Supply terminal block in the control compartment.
	Optional	A three pole non-fused disconnect switch and circuit breaker(s) sized to the heater load protects heater and disconnects power to the heater. Design prevents entry into the control compartment until disconnect switch is turned to the OFF position.
SUMMER FAN SWITCH	Standard	Fan cycles as the heat cycles on and off.
	Optional	Built-in switch provides continuous fan operation with or without heat, or automatic fan cycling as the heat cycles on and off.
ON / OFF SWITCH	Standard	No switch supplied.
	Optional	Built-in switch provides continuous fan operation with or without heat, or automatic fan cycling as the heat cycles on and off.

PRICE ADDERS FOR OPTIONAL FACTORY INSTALLED ACCESSORIES (cont.)		
SERIES		FUNCTION
KEY LOCK FOR FRONT COVER*	Standard	Two (2) slotted head spring latches.
	Optional	Two (2) toolhead key lock style spring latches prevent unauthorized adjustment of controls and provide additional safety from injury due to contact with internal components.
NIGHT SET-BACK RELAY 24 or 120 Volt	Standard	Heater will not set back at night.
	Optional	Provides ability to set-back heater from energy management system that supplies (Specify - 24 volts or 120 volts) to the relay holding coil for day operation.
OPTION	FUNCTION	
MOTORIZED 100% OUTSIDE AIR DAMPER	Standard	Return air only.
	Optional	Optional – 24 volt electronically controlled damper with rear mounted duct collar permits outside air to enter the chamber at 100%. If power is interrupted at the heater the outside damper remains in the "OPEN or CLOSED" position from the last switch setting. Damper fully opens in less than 2 minutes when selector switch is in the "OPEN" DAMPER* position. (Available only with heaters having 24 volt control supply. Cannot be used with 120 volt control supply or with bottom inlet configuration.)
INLET OR DISCHARGE DUCT COLLAR(S)	Standard	Slotted louver grilles.
	Optional	Collars provide easy connection of field supplied duct work. We do not recommend exceeding 0.2"wg external static pressure. Heater with duct collars are supplied with a single speed high static motor.
ARCHITECTURAL EXTRUDED ALUMINUM GRILLES*	Standard	Slotted louver grilles.
	Optional	Architectural styled extruded aluminum grille to enhance the appearance of the cabinet unit heater. This option is only available for both inlet and discharge openings ordered at the same time. Can not be ordered separately.

† Plus price of circuit. * Allow 4 to 6 weeks for shipment with these options.

STOCK - CUHS900

- Neutral grey finish standard.
- Terminals for direct connection to BAS or EMS.
- High/low heat setting.
- Balanced three phase.
- Two cabinet sizes.
- Includes built in disconnect switch.



*Field conversion needed.

IN STOCK
Available for immediate shipment

Field Convertible to Single Phase - Factory supplied three phase, field convertible to single phase in 208 and 240 volt, from 480 volt three phase to 277 volt single phase and from 600 volt three phase to 347 volt single phase.

CATALOG NUMBER	UPC NUMBER	KW		CFM		DIM	MOTOR	FANS	WT. (LBS.)	VOLTS/PH.	AMPS
		HI	LO	HI	LO						
NON-FIELD CONVERTIBLE MODELS											
CUHS93505271FFNC	6 85360 16512 7	5	3.3	250	200	35" W x 26-3/8" H x 9-7/8" D	1	1	120	277V/1Ø	18.0
CUHS93505483FFNC	6 85360 16514 1							2		480V/3Ø	6.0
CUHS94510271FFNC	6 85360 16516 5	10	6.7	500	400	35" W x 26-3/8" H x 9-7/8" D	2	2	160	277V/1Ø	36.0
CUHS9451483FFNC	6 85360 16518 9							2		480V/3Ø	12.0
CONVERTIBLE MODELS											
CUHS93505203FF	6 85360 01791 4	5	3.3	250	200	35" W x 26-3/8" H x 9-7/8" D	1	1	120	208V/3Ø	14.0
CUHS93505243FF	6 85360 01792 1									240V/3Ø	12.0
CUHS93505483FF	6 85360 01793 8									480V/3Ø	6.0
CUHS93505603FF	6 85360 01794 5	10	6.7	500	400	45" W x 26-3/8" H x 9-7/8" D	1	2	165	600V/3Ø	4.8
CUHS94510203FF	6 85360 01795 2									208V/3Ø	34.0
CUHS94510243FF	6 85360 01796 9									240V/3Ø	15.0
CUHS94510483FF	6 85360 01797 6									480V/3Ø	12.0
CUHS94510603FF	6 85360 01798 3									600V/3Ø	9.0

* Factory supplied 208 or 240 Volt, 3 Ph. field convertible to 1 ph., 480 volt 3 Ph. convertible to 277 Volt 1 ph., 600 Volt 3 Ph convertible to 347 Volt 1 Ph. ** Amps shown are 3 Ph., High heat operation.

COMPACT FREEZE PROTECTION

PHFP25

Concealed Space Use Zero Clearance Plenum Rated

APPLICATIONS:

Model PHFP25 is a unique application heater approved for installation in a concealed space, an area between a finished ceiling and drop ceiling, a plenum space, or inside a plenum. It may be installed in areas that are not readily accessible and may be installed for freeze protection.

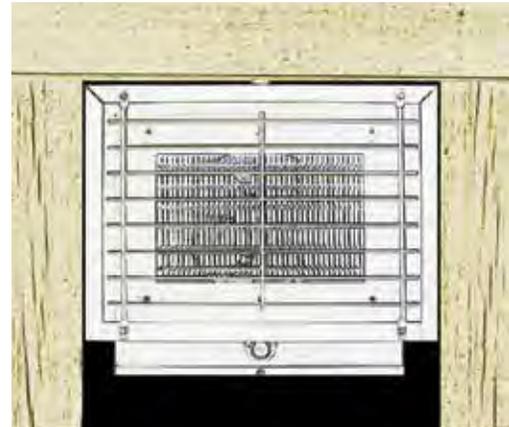
FEATURES:

- 18 ga. all steel casing with neutral grey polyester powder coat finish for corrosion protection.
- Easy to install using the hanging bracket supplied.
- Steel finned low watt density element. Fins and elements are arranged in a uniform grid pattern to assure that all incoming air passes through the heating element.
- High limit thermal cutout automatically shuts off current in the event of overheating and reactivates the heater when temperature returns to normal.
- Fan delay control.
- Optional alarm (240V) to alert automatic thermal limit tripped. Model AFL240
- Built-in, heavy duty, contactor/relay.
- Control Box gasketed to keep out moisture and dust. NEMA 12 construction.
- Fan motor is totally enclosed, permanently lubricated and thermally protected.
- Great air throw.
- Single Point field wiring connection.
- Weight: 26 lbs.
- Dimensions: 12" H X 14" W X 14" L



OPTIONAL ACCESSORIES

CATALOG NUMBER	UPC	DESCRIPTION	WT. (LBS.)
AFL240	6 85360 15347 6	Thermal limit alarm	1



CATALOG NUMBER	UPC NUMBER	VOLTS	HZ	KW	PHASE	BTUH	CFM.	FPM	RISE	SHIP AMPS	WT. (LBS.)
PHFP25	6 85360 14954 7	240	50/60	2.5	1	8530	150	1880	60°F	10.7	26
		208	50/60	1.9		6398	130		46°F	9.42	

(Thermostat temperature range: 40°F to 90°F with positive off)

PLENUM RATED UNIT HEATER

BHP

Concealed Space Use - Zero Clearance



APPLICATIONS:

The Berko BPH Plenum Rated heater is ETL design certified for plenum and concealed space applications. Applications include high rise buildings, concession stands, school bathrooms, lobbies and foyers, and to pre-heat outside air. This plenum heater is rated for zero clearance to any surfaces, including combustibles (wood trusses, wood framing), mounted next to the sides, top and bottom of metal cabinet.

FEATURES:

- Compact size, zero clearance, design for horizontal installation.
- Versatile full featured design with easy serviceability.

- Rugged powder coated steel construction.
- Fan only option.
- Timed blower on / off delay.
- Designed for horizontal installation.
- External 24 volt thermostat control (not included).
- High limit thermal cutout - Automatic reset.
- Pre-notched duct collar.
- PSC type 2-speed motor (ex. 480V models).
- 2 Stage heat is available on some 10kw and 15kw models.
- Multiple heat rise selection.
- 20 gauge all powder coated steel construction.
- Acoustic fiberglass insulation.
- Built-in disconnect switch.
- Single point power connection.
- Heavy duty steel finned heating element.
- Quiet, efficient, forward curved centrifugal blower.

CATALOG NUMBER	UPC NUMBER	PHASE	KW	VOLTS	AMPS*	LOW SPEED**		HIGH SPEED**		WT. (LBS.)	H X W X L (INCHES)
						CFM	RISE	CFM	RISE		
BPH138124	6 85360 14993 6			208	15.32	350	27°F	400	24°F	57	12-1/2 x 19-1/2 x 24
BPH132124	6 85360 15009 3	1	3	240	13.4						
BPH137124	6 85360 15015 4			277	11.63						
BPH138324	6 85360 14995 0			208	9.23						
BPH132324	6 85360 15011 6	3	3	240	8.12						
BPH134324	6 85360 15013 0			480	4.11						
BPH158124	6 85360 15005 5			208	24.94	350	45°F	400	39°F	57	12-1/2 x 19-1/2 x 24
BPH152124	6 85360 14997 4	1	5	240	21.73						
BPH157124	6 85360 15003 1			277	18.85						
BPH158324	6 85360 15007 9			208	14.78						
BPH152324	6 85360 14999 8	3	5	240	12.93						
BPH154324	6 85360 15001 7			480	6.51						
BPH158124L	6 85360 15105 2			208	24.94	850	20°F	1000	16°F	69	18 x 18 x 35-1/2
BPH152124L	6 85360 15097 0	1	5	240	21.73						
BPH157124L	6 85360 15103 8			277	18.85						
BPH158324L	6 85360 15107 6			208	14.78						
BPH152324L	6 85360 15099 4	3	5	240	12.93						
BPH154324L	6 85360 15101 4			480	6.51						
BPH1758124	6 85360 15025 3			208	38.12	850	28°F	1000	24°F	69	18 x 18 x 35-1/2
BPH1752124	6 85360 15017 8	1	7.5	240	33.31						
BPH1757124	6 85360 15023 9			277	28.91						
BPH1758324	6 85360 15027 7			208	22.88						
BPH1752324	6 85360 15019 2	3	7.5	240	20.1						
BPH1754324	6 85360 15021 5			480	10.16						
BPH1102124	6 85360 15029 1	1	10	240	43.73	850	37°F	1000	31°F	69	18 x 18 x 35-1/2
BPH1107124	6 85360 15035 2			277	37.93						
BPH2102124	6 85360 15109 0	1	10	240	43.73						
BPH2107124	6 85360 15115 1			277	37.93		37° / 20°F	31° / 16°F			
BPH1108324	6 85360 15037 6			208	29.82						
BPH1102324	6 85360 15031 4	3	10	240	26.12		37°F	31°F			
BPH1104324	6 85360 15033 8			480	13.17						
BPH2108324	6 85360 15117 5			208	29.82	850	37° / 20°F	1000	31° / 16°F	69	18 x 18 x 35-1/2
BPH2102324	6 85360 15111 3	3	10	240	26.12						
BPH2104324	6 85360 15113 7			480	13.17	850	56°F	1000	47°F°	69	18 x 18 x 35-1/2
BPH1158324	6 85360 15043 7			208	43.9						
BPH1152324	6 85360 15039 0	3	15	240	38.14	850	56° / 28°F	1000	47° / 24°F	69	18 x 18 x 35-1/2
BPH1154324	6 85360 15041 3			480	19.18						
BPH2152324	6 85360 15119 9	3	15	240	38.14	850	56° / 28°F	1000	47° / 24°F	69	18 x 18 x 35-1/2
BPH2154324	6 85360 15121 2			480	19.18						

*Total Amps including Resistive and Inductive loads. **Low and High speed fan operation is determined during installation of thermostat set up † Tested @0.2" S.P.

** Low speed fan operation not available on 480V models.

CATALOG NUMBER	DESCRIPTION	OPENING	DIMENSIONS	WT. (LBS.)
FRST10	Throw away filter, including rack for 3 & 5KW unit	Inlet side	15" X 20" X 4.5"	4
FRWS15	Reusable filter, including rack for 3 & 5KW unit	Inlet side	15" X 20" X 4.5"	4
FRLT20	Throw away filter, including rack for 7.5 to 15KW unit	Inlet side	15" X 20" X 4.5"	5
FRWL25	Reusable filter, including rack for 7.5 to 15KW unit	Inlet side	15" X 20" X 4.5"	5
LKS10	Adjustable louver kit for 3 & 5KW units	Outlet side	15" X 20" X 4.5"	5.5
LKL15	Adjustable louver kit for 7.5 to 15KW units	Outlet side	15" X 20" X 4.5"	6
AES10	Aluminum Wall Louver kit for inside heated room for 3 & 5KW units	Inside room	Rough in: 13-11/16" X 13-3/4"	3
AESL15	Aluminum Wall Louver kit for inside heated room for 7.5 to 15KW units	Inside room	Rough in: 15-3/4" X 15-3/4"	3.5
TH5220D1003	Electronic Digital 2-Stage 24 volt Thermostat	Inside room	5 3/4"W X 3 3/4"H X 1 1/2"D	4
PRHT1	Single Pole Field installed thermostat. Range 40° to 85°F	At heater location	25A @ 240V resistive; 22A @ 277V	3

FINNED TUBE ELECTRIC DUCT HEATERS

APPLICATIONS:

Berko® Electric Finned Tube Duct Heaters are custom engineered to customer specifications. They are available CSA and UL listed in Slip-in or Flanged configurations with heavy gauge galvanized steel frame and terminal box construction.

All units include primary and secondary thermal protection and are designed for use with vertical or horizontal airflow in either direction.

Finned elements are constructed using only the highest Grade-A 80/20 nickel-chromium resistance wire, helically wound and centered within a sheath of either copper plated or stainless steel, compacted with magnesium oxide to assure excellent heat transfer and double sealed.

Applications Include: Office buildings, Institutions, Retail stores, Primary heat in air handling units, Auxiliary heat for heat pumps, and much more.

FEATURES:

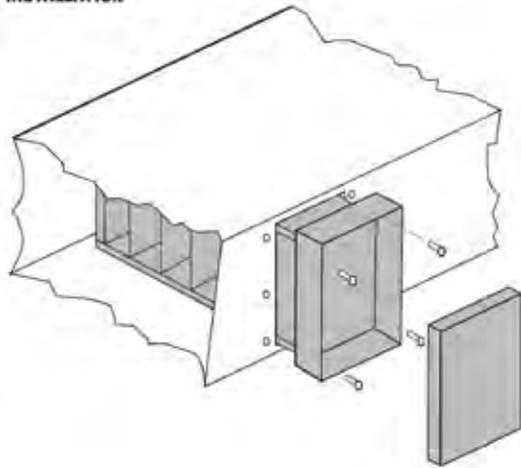
- Custom Engineered.
- Heat Output Up to 1000 kW.
- 0.2 Inch Fin Spacing.
- Variety of Construction Styles and Options.
- Numerous Control Options.

RATING AND SIZES:

You specify it—we build it! Heaters described in this bulletin are custom designed at no extra charge to your exact size, wattage, voltage, phase and number of steps. Any duct size from W = 8" and H = 8" minimum to W = 96" and H = 96" maximum, wattages up to 1000 kW can be furnished. Base price depends upon duct size and kW rating; base price is the same for single or three phase and does not change with number of steps. For practical design of heater, minimum recommended kW per step is .5 kW for 208V, 240V single phase; 1.0 kW for 277V or 480V single phase and 2.0 kW for 208V, 240V, 480V or 600V three phase.



INSTALLATION

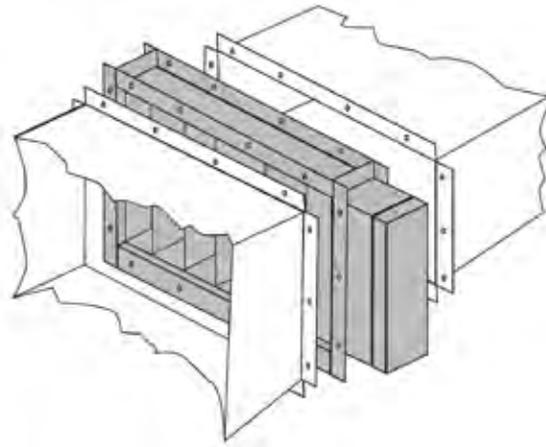


SLIP-IN HEATER (STANDARD)

Standard and by far the most widely used because of the ease of installation. When built-in controls are specified in a slip-in heater, they are usually mounted in the left-hand overhang. If right-hand overhang is desired, specify S dimension to be 1", T dimension as required.

INSTALLATION

- Step 1. Cut hole in side of duct 1/8" larger than heater body.
- Step 2. Insert heater until terminal box covers opening.
- Step 3. Secure heater in place with sheet metal screws.



FLANGED HEATER (OPTIONAL)

Consists of a slip-in heater mounted in a flanged duct section. The slip-in portion slides out without removing flanges from duct. When built-in controls are specified in a flanged heater, they are mounted in the terminal box of the slip-in portion; the frame containing the elements stays the same. The flanged duct section is increased in depth to accommodate the larger terminal box.

INSTALLATION

- Step 1. Provide flanges on ends of duct matching heater flanges.
- Step 2. Secure heater flanges to duct flanges with sheet metal screws, so that mounting screws do not enter terminal box.

OPEN COIL ELECTRIC DUCT HEATERS

APPLICATIONS:

Berko® Open Coil Electric Duct Heaters are custom engineered to customer specification and built to order. They are available CSA and UL listed in Slip-in or Flanged configurations with heavy gauge galvanized steel frame and terminal box construction. There are also NEMA 12 and NEMA 4 models available. Units include primary and secondary thermal protection and are designed for use with vertical up or horizontal airflow in either direction. Alternate constructions are available for oven heaters, round duct, bottom insert and rain tight installations. Elements are constructed using only the highest Grade-A 80/20 nickel-chromium resistance wire with stainless steel terminals. Other optional construction features include recessed, dust tight or insulated terminal box, insulated flanges and protective screens.

A wide assortment of built-in control options are available. Exact, not typical, wiring diagrams are provided with each heater.

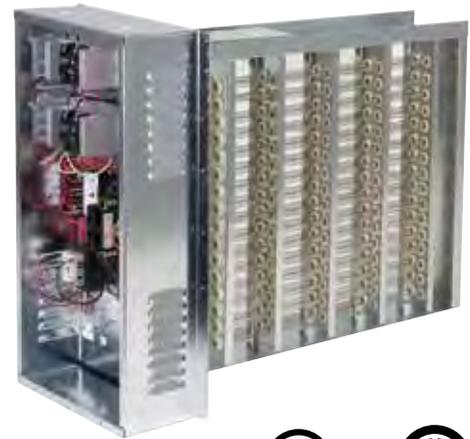
Applications Include: Office buildings, Institutions, Retail stores, Primary heat in air handling units, Auxiliary heat for heat pumps, and much more.

FEATURES:

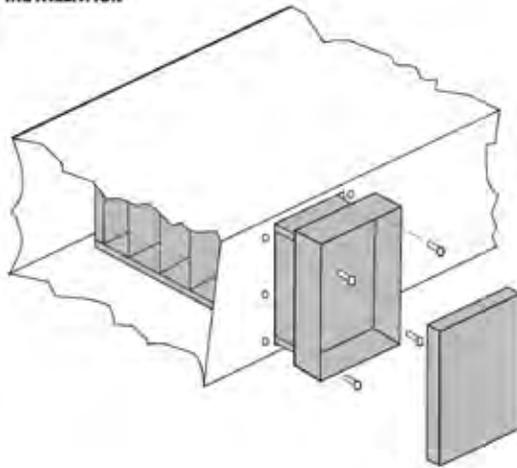
- Custom Engineered.
- Heat Output Up to 1000 kW.
- Grade-A 80/20 Resistance Wire.
- Variety of Construction Styles and Options.
- Numerous Control Options.

RATING AND SIZES:

You specify it—we build it! Heaters described in this bulletin are custom designed at no extra charge to your exact size, wattage, voltage, phase and number of steps. Any duct size from W = 6" and H = 6" minimum to W = 144" and H = 96" maximum, wattages up to 1000 kW can be furnished. Base price depends upon duct size and kW rating; base price is the same for single or three phase and does not change with number of steps. For practical design of heater, minimum recommended kW per step is .5 kW for 208V, 240V single phase; 1.0 kW for 277V or 480V single phase and 2.0 kW for 208V, 240V, 480V or 600V three phase.



INSTALLATION

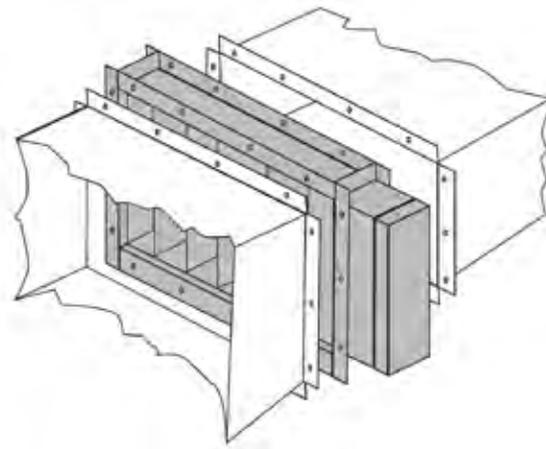


SLIP-IN HEATER (STANDARD)

Standard and by far the most widely used because of the ease of installation. When built-in controls are specified in a slip-in heater, they are usually mounted in the left-hand overhang. If right-hand overhang is desired, specify S dimension to be 1", T dimension as required.

INSTALLATION

- Step 1. Cut hole in side of duct 1/8" larger than heater body.
- Step 2. Insert heater until terminal box covers opening.
- Step 3. Secure heater in place with sheet metal screws.



FLANGED HEATER (OPTIONAL)

Consists of a slip-in heater mounted in a flanged duct section. The slip-in portion slides out without removing flanges from duct. When built-in controls are specified in a flanged heater, they are mounted in the terminal box of the slip-in portion; the frame containing the elements stays the same. The flanged duct section is increased in depth to accommodate the larger terminal box.

INSTALLATION

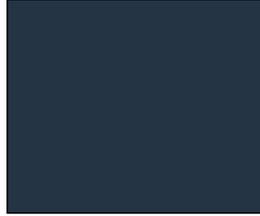
- Step 1 Provide flanges on ends of duct matching heater flanges.
- Step 2. Secure heater flanges to duct flanges with sheet metal screws, so that mounting screws do not enter terminal box.

COLOR SELECTION

STANDARD PAINTED COLORS



Navajo White



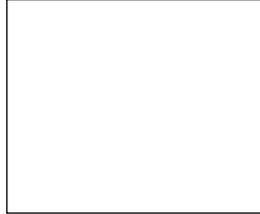
Charcoal Grey



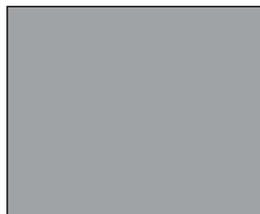
Statuary Bronze



Neutral Grey



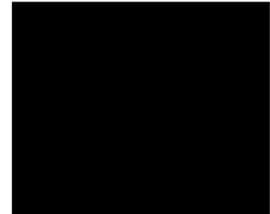
Northern White



Aluminum



Desert Tan



Gloss Black

OPTIONAL PAINTED COLORS - Custom colors, in powder coat finishes, are available at additional cost. Please contact your local Berko sales representative.

Clear and Bronze Anodized finishes are available for Type ASL3/ASL5 convectors only.

NOTE: All colors are approximate - as nearly correct as can be produced by modern printing. See below for Paint Policy.

PAINT POLICY

All Stock Products:

Cabinet Unit Heater:	CUH
Radiant Ceiling Panels	QTH / QTM / QTL
Sill Height Convector & Accessories:	ASL, CSL, ICST, ASLC and BDBSL
Pedestal Convector & Accessories:	CPL

Prices shown in this book are for standard and optional colors (Neutral Grey, Charcoal Grey, Northern White, Gloss Black, Desert Tan, Navajo White, Aluminum, & Statuary Bronze).

Primer: For applications that require a primer coat a "Neutral Grey powder coat will be provided as standard color. Consult factory for more detailed information if needed.

For **Custom Colors** there is a set up charge per order per custom color. See latest pricebook for setup charge.

To minimize the possibility of error when ordering material painted a custom color, a color chip of the custom color must be included with the order.

The chip must be a minimum 3" x 5" and be of the same material as the enclosure of the ordered heater (ie, Steel or Aluminum).

Custom Engineered Convectors

- Sill Height and Pedestal Convectors custom engineered for continuous (wall to wall) enclosure with shorter element length.
- Special angled inside and outside corners with angles between 45 and 180 degrees (Aluminum convectors ASL3 & ASL5).
- Blank section custom fabricated to any 1/4-inch dimension between 9 and 120 inches.
- Consult factory representative for special engineering charges and delivery information.

EXPLOSION PROOF UNIT HEATERS

RUX

APPLICATIONS:

Explosion proof unit heaters are designed to heat areas classified as hazardous locations designated as Class I, Group C & D Division 1 & 2 or Class II, Groups E, F, and G with a T3B ignition temperature code rating (329°F, 165°C) or higher to provide primary or supplementary heating for comfort or freeze protection. Typical applications involve oil refineries, sewage treatment plants, petrochemical plants, oil rigs, unattended pumping stations, chemical storage and handling facilities, paint storage areas, and countless other hazardous areas covered by these classifications.

FEATURES:

CONTROLS — Prewired, self-contained control center. Standard controls include automatic reset thermal limit, a magnetic contactor, and 24 volt control circuit transformer.

HEAT EXCHANGER — Advanced design allows lower operating temperatures from the liquid to air heat exchanger with steel tubes, aluminum fins, a non-toxic heat transfer fluid, and a pressure relief plug.

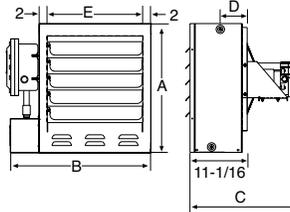
OPTIONAL CONTROLS — Factory built-in thermostat, disconnect switch, fan selector switch, 120V control circuit, and pilot light.

HIGH LIMIT CUTOUTS— An automatic reset high limit cutout unit is standard. (An

additional manual reset high limit cutout is available as an option.)

FAN & MOTOR — Ball bearing permanently lubricated explosion proof motor has built-in thermal overload protection.

CABINET — Powder coated heavy gauge steel cabinet surrounding a 14 gauge heavy-duty steel frame which supports internal components.



CATALOG NUMBER	HEATER VOLTS	WATTS (K/W)	PHASE	CONTROL VOLTS*	OUTPUT BTU/HR.	TOTAL AMPS**	VOLUME CFM	AIR TEMP RISE	THROW	WT. (LBS.)	SHIP STATUS
RUX300812	208	3	1	24	10,236	16.7	700	13°F	28 ft.	135	AS
RUX300832	208	3	3	24	10,236	9.7	700	13°F	28 ft.	135	AS
RUX300412	240	3	1	24	10,236	14.8	700	13°F	28 ft.	135	C
RUX300432	240	3	3	24	10,236	8.6	700	13°F	28 ft.	135	C
RUX3004832	480	3	3	24	10,236	4.3	700	13°F	28 ft.	135	C
RUX300632	600	3	3	24	10,236	3.6	700	13°F	28 ft.	135	C
RUX500812	208	5	1	24	17,060	26.3	700	22°F	28 ft.	135	C
RUX500832	208	5	3	24	17,060	15.3	700	22°F	28 ft.	135	C
RUX500412	240	5	1	24	17,060	23.1	700	22°F	28 ft.	135	AS
RUX500432	240	5	3	24	17,060	13.5	700	22°F	28 ft.	135	C
RUX5004832	480	5	3	24	17,060	6.8	700	22°F	28 ft.	135	S
RUX500632	600	5	3	24	17,060	5.6	700	22°F	28 ft.	135	C
RUX750812	208	7.5	1	24	25,590	38.4	840	27°F	28 ft.	135	C
RUX750832	208	7.5	3	24	25,590	22.2	840	27°F	28 ft.	135	C
RUX750412	240	7.5	1	24	25,590	33.6	840	27°F	28 ft.	135	AS
RUX750432	240	7.5	3	24	25,590	19.4	840	27°F	28 ft.	135	C
RUX7504832	480	7.5	3	24	25,590	9.7	840	27°F	28 ft.	135	S
RUX750632	600	7.5	3	24	25,590	8.1	840	27°F	28 ft.	135	C
RUX1000832	208	10	3	24	34,120	29.2	840	36°F	32 ft.	140	C
RUX1000412	240	10	1	24	34,120	44.5	840	36°F	32 ft.	140	C
RUX1000432	240	10	3	24	34,120	25.5	840	36°F	32 ft.	140	C
RUX10004832	480	10	3	24	34,120	12.7	840	36°F	32 ft.	140	S
RUX1000632	600	10	3	24	34,120	10.6	840	36°F	32 ft.	140	C
RUX1500832	208	15	3	24	51,180	43	1450	31°F	47 ft.	160	AS
RUX1500432	240	15	3	24	51,180	37.5	1450	31°F	47 ft.	160	C
RUX15004832	480	15	3	24	51,180	18.7	1450	31°F	47 ft.	160	S
RUX1500632	600	15	3	24	51,180	15.7	1450	31°F	47 ft.	160	C
RUX20004832	480	20	3	24	68,240	24.8	1400	43°F	43 ft.	171	S
RUX2000632	600	20	3	24	68,240	20.7	1400	43°F	43 ft.	171	C
RUX25004832	480	25	3	24	85,300	31.1	2330	32°F	54 ft.	216	AS
RUX2500632	600	25	3	24	85,300	25.8	2330	32°F	54 ft.	216	C
RUX30004832	480	30	3	24	102,360	37.1	2330	39°F	54 ft.	216	AS
RUX3000632	600	30	3	24	102,360	30.2	2330	39°F	54 ft.	216	C

*Note: Above models have built-in 24 volt control. Optional 120 volt control is available. Replace the "2" suffix with "1" for 120 volt control.

** Includes element, motor, and transformer.

ACCESSORIES

CATALOG NUMBER	UPC	DESCRIPTION
RUXPM12	6 85360 03379 2	Pole Mounting Bracket for units 3kW thru 10kW
RUXPM16	6 85360 03380 8	Pole Mounting Bracket for units 15kW thru 20kW
RUXPM18	6 85360 03381 5	Pole Mounting Bracket for units 25kW thru 30kW
RUXWM12	6 85360 03382 2	Wall Mounting Kit for units 3kW thru 10kW
RUXWM16	6 85360 03383 9	Wall Mounting Kit for units 15kW thru 20kW
RUXWM18	6 85360 03384 6	Wall Mounting Kit for units 25kW thru 30kW
RUXCM0	6 85360 03378 5	Ceiling/Hang Mounting Kit for all Models

Specify type of mounting bracket required at time of order entry.

DIMENSIONS

UNIT SIZE	A		B		C		D		E	
	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM
3-10kW	19-1/8	486	23-7/8	606	21	533	3-1/5	89	13-5/8	346
15-20kW	25	635	27-7/8	708	21	533	4-13/32	112	17-5/8	448
25-30kW	32-1/8	816	31-7/8	810	21-3/4	552	5-1/2	140	21-5/8	549

NOTE: All units with status "C" or "AS" are made-to-order and are non-returnable.

DIMENSIONS

STUFFIX	DESCRIPTION
AM	Automatic and Manual reset limits
T	Thermostat, 50-90° F
L	Pilot Light (HEATER ON)
K	Pilot Light (LIMIT TRIPPED)
S	Selector Switch (AUTO/FAN ONLY)
D	Disconnect Switch - 15 amp Disconnect Switch - 30 amp Disconnect Switch - 60 amp
* 1	120 Volt Control Transformer
E	Artic Construction

*Change heater suffix "2" to "1" for this option

WASHDOWN CORROSION RESISTANT UNIT HEATERS

BWD



APPLICATIONS:

BWD Series unit heater is designed for comfort heating or freeze protection in non-hazardous dusty/dirty environments including: waste water treatment plants, coal handling areas, food processing plants, foundries, steel mills, cement plants, car washes, swimming pool areas, canneries and dairies.

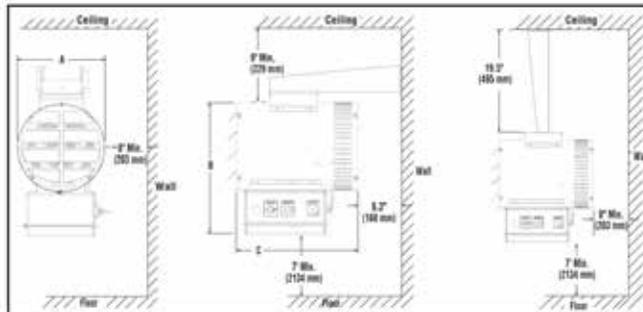
BWD Series washdown heater is a reliable, rugged, self-contained, U.L. and CSA listed, corrosion resistant unit heater. This unit offers both corrosion protection in harsh environments and the ability to be hosed down for cleaning. Users are therefore assured of an ideal heat source for freeze protection or comfort heat in non-hazardous, dirty and corrosive areas such as waste water treatment plants, ships, factories, and construction sites.

FEATURES:

- All components are designed to be moisture and corrosion resistant.
- A sturdy Type 304 stainless steel case surrounds industrial grade 316 stainless steel finned tubular elements.
- The motor is a totally enclosed, permanently lubricated, ball bearing type which is epoxy painted for moisture and corrosion resistance.
- The junction box which houses the built-in controls and element terminals is rated NEMA 4X.
- Dependable air flow comes from a spark resistant, epoxy coated aluminum fan.
- Power contactor, motor contactor, epoxy sealed automatic over-temperature cutout, internal thermostat (55°F - 105°F), pilot light to indicate when unit is in operation mode, selector switch (heater on / off, fan only) and 24volt control are standard.
- Stainless steel universal type swivel mounting bracket supplied with heater.
- Fan delay on all Models 5Kw or larger.
- Wall thermostat (WT11 NEMA 4X rating) See page 81. (Remove T from Catalog No.)

CATALOG NUMBER	HEATER KW	VOLTS	MOTOR PHASE	OUTPUT BTU/HR	HEATER AMPS	MOTOR VOLTS	MOTOR PHASE	MOTOR AMPS	TEMP RISE	CFM	SHIP WT. (LBS.)
BWD02112	2	120	1	6,824	16.7	120	1	1.554	9	700	60 (27.2)
BWD02812	2	208	1	6,824	9.6	208	1	0.896	9	700	60 (27.2)
BWD02212	2	240	1	6,824	8.3	240	1	0.777	9	700	60 (27.2)
BWD03112	3	120	1	10,236	25.0	120	1	1.554	14	700	60 (27.2)
BWD03812	3	208	1	10,236	14.4	208	1	0.896	14	700	60 (27.2)
BWD03212	3	240	1	10,236	12.5	240	1	0.777	14	700	60 (27.2)
BWD03712	3	277	1	10,236	10.8	277	1	0.673	14	700	60 (27.2)
BWD03832	3	208	3	10,236	8.3	208	1	0.896	14	700	60 (27.2)
BWD03232	3	240	3	10,236	7.2	240	1	0.777	14	700	60 (27.2)
BWD03432	3	480	3	10,236	3.6	480	1	0.388	14	700	60 (27.2)
BWD05812	5	208	1	17,060	24.0	208	1	0.896	23	700	60 (27.2)
BWD05212	5	240	1	17,060	20.8	240	1	0.777	23	700	60 (27.2)
BWD05712	5	277	1	17,060	18.1	277	1	0.673	23	700	60 (27.2)
BWD05412	5	480	1	17,060	10.4	480	1	0.388	23	700	60 (27.2)
BWD05832	5	208	3	17,060	13.9	208	1	0.896	23	700	60 (27.2)
BWD05232	5	240	3	17,060	12.0	240	1	0.777	23	700	60 (27.2)
BWD05432	5	480	3	17,060	6.0	480	1	0.388	23	700	60 (27.2)
BWD05632	5	600	3	17,060	7.2	240	1	1.8	23	1450	75 (34)
BWD07812	7.5	208	1	25,590	36.1	208	1	0.896	34	700	60 (27.2)
BWD07212	7.5	240	1	25,590	31.3	240	1	0.777	34	700	60 (27.2)
BWD07712	7.5	277	1	25,590	27.1	277	1	0.673	34	700	60 (27.2)
BWD07412	7.5	480	1	25,590	15.6	480	1	0.388	34	700	60 (27.2)
BWD07832	7.5	208	3	25,590	20.8	208	1	0.896	34	700	60 (27.2)
BWD07232	7.5	240	3	25,590	18.0	240	1	0.777	34	700	60 (27.2)
BWD07432	7.5	480	3	25,590	9.0	480	1	0.388	34	700	60 (27.2)
BWD07632	7.5	600	3	25,590	7.2	240	1	1.8	34	1450	75 (34)
BWD10212	10	240	1	34,120	41.7	240	1	0.777	22	1450	60 (27.2)
BWD10712	10	277	1	34,120	36.1	277	1	0.673	22	1450	60 (27.2)
BWD10412	10	480	1	34,120	20.8	480	1	0.388	22	1450	60 (27.2)
BWD10832	10	208	3	34,120	27.8	208	1	0.896	22	1450	60 (27.2)
BWD10232	10	240	3	34,120	24.1	240	1	0.777	22	1450	60 (27.2)
BWD10432	10	480	3	34,120	12.0	480	1	0.388	22	1450	60 (27.2)
BWD10632	10	600	3	34,120	9.6	240	1	1.8	33	2400	75 (34)
BWD12812	12.5	208	1	42,650	60.1	208	1	1.793	27	1450	60 (27.2)
BWD12212	12.5	240	1	42,650	52.1	240	1	1.554	27	1450	60 (27.2)
BWD12832	12.5	208	3	42,650	34.7	208	1	1.793	27	1450	60 (27.2)
BWD12232	12.5	240	3	42,650	30.1	240	1	1.554	27	1450	60 (27.2)
BWD12432	12.5	480	3	42,650	15.0	480	1	0.777	27	1450	60 (27.2)
BWD12632	12.5	600	3	42,650	12.0	240	1	1.8	27	2400	75 (34)
BWD15812	15	208	1	51,180	72.1	208	1	1.793	20	2400	110 (49.9)
BWD15212	15	240	1	51,180	62.5	240	1	1.554	20	2400	110 (49.9)
BWD15412	15	480	1	51,180	31.3	480	1	0.777	20	2400	110 (49.9)
BWD15832	15	208	3	51,180	41.6	208	1	1.793	20	2400	110 (49.9)
BWD15232	15	240	3	51,180	36.1	240	1	1.554	20	2400	110 (49.9)
BWD15432	15	480	3	51,180	18.0	480	1	0.777	20	2400	110 (49.9)
BWD15632	15	600	3	51,180	14.5	240	1	1.8	20	2400	125 (56.6)
BWD20412	20	480	1	68,240	41.7	480	1	0.777	26	2400	120 (54.4)
BWD20232	20	240	3	68,240	48.1	240	1	1.554	26	2400	120 (54.4)
BWD20432	20	480	3	68,240	24.1	480	1	0.777	26	2400	120 (54.4)
BWD20632	20	600	3	68,240	19.3	240	1	1.8	26	2400	135 (61.2)
BWD25832	25	208	3	85,300	69.4	208	1	1.793	33	2400	120 (54.4)
BWD25232	25	240	3	85,300	60.1	240	1	1.554	33	2400	120 (54.4)
BWD25432	25	480	3	85,300	30.1	480	1	0.777	33	2400	120 (54.4)
BWD25632	25	600	3	85,300	24.1	240	1	1.8	33	2400	135 (61.2)
BWD30832	30	208	3	102,360	83.3	208	1	1.793	39	2400	120 (54.4)
BWD30232	30	240	3	102,360	72.2	240	1	1.554	39	2400	120 (54.4)
BWD30432	30	480	3	102,360	36.1	480	1	0.777	39	2400	120 (54.4)
BWD30632	30	600	3	102,360	28.9	240	1	1.8	39	2400	135 (61.2)
BWD39432	39	480	3	133,068	46.9	480	1	0.777	51	2400	120 (54.4)
BWD39632	39	600	3	133,068	37.6	240	1	1.8	51	2400	135 (61.2)

All units other than standard models are non-returnable.



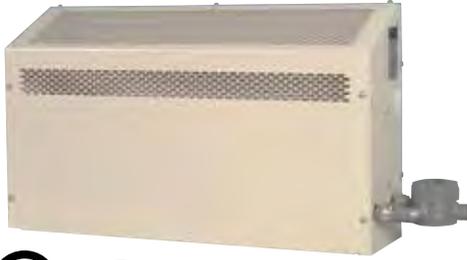
ACCESSORIES (Factory Installed Only)

STUFFIX	DESCRIPTION
T	Thermostat
L	Pilot Light
S	Monel/Selector Switch
D	Disconnect Switch
E	Monel Element*
M	Manual Reset
P	Epoxy Coating

* Monel elements are subject to longer lead times - contact factory for details

EXPLOSION PROOF CONVECTORS

SCG



APPLICATIONS:

SCG Series convector heaters are designed to heat areas classified as hazardous locations designated for Class I, Groups B, C, & D. Division 1 and 2 environments. Typical APPLICATIONS: involve petroleum refineries and gasoline storage and dispensing areas, industrial firms that use flammable liquids in dip tanks for parts cleaning, petrochemical companies manufacturing chemicals, dry cleaning plants, utility and natural gas plants, aircraft hangars, fueling areas, and many other hazardous areas covered by these classifications.

FEATURES:

- Easily mounted with integral mounting brackets provided for wall installation.
- Polyester powder coated heavy gauge steel that provides excellent corrosion resistance.
- High quality, long life tubular elements with high grade resistance wire embedded in MGO, centered in heavy gauge 1.25" diameter sheath with 3" x 3.25" fins.
- Explosion proof junction boxes included for conduit entry and ease of wiring.
- Sloped top cabinet prevents objects from being set on top which could restrict airflow.
- These convection heaters have been designed and manufactured to provide a rugged and corrosion resistant heat source for areas where volatile flammable liquids or gases and vapors are present.

DIMENSIONS - Inches

KW	LENGTH	HEIGHT	WIDTH
1.8 and 3.6	34	20	9
3.2 and 7.6	58	20	9

NOTE: Add 8-7/8" to total length of heater to allow for junction box on right side of heater.

AVAILABILITY STATUS (BWD, RUX, SCG)

Code	Description	Lead-time
BWD	All units have 2-week lead-time.	2 weeks
RUX	Code S - Stock unit (no built-in controls)	4 week
	Code AS - Assemble to stock units (with or without built-in controls)	5 weeks
	Code C - Custom (with or without built-in controls) All stock units with built-in controls are the same as code AS units.	6 weeks
SCG	Code S - Stock unit (no built-in controls)	4 week
	Code C - Custom (with or without built-in controls)	6 weeks
	All stock units with built-in controls are the same as code AS units.	

CATALOG NUMBER	HEATER VOLTS	WATTS (K/W)	PHASE	AMPS	BTU	WT. (LBS.)	SHIP STATUS
T2A TEMPERATURE RATING (536 DEG. F)							
SCG18001	120	1.8	1	15.0	6,140		AS
SCG18081	208	1.8	1	8.7	6,140		S
SCG18083	208	1.8	3	5.0	6,140		C
SCG18041	240	1.8	1	7.5	6,140	46	S
SCG18043	240	1.8	3	4.4	6,140		C
SCG18071	277	1.8	1	6.5	6,140		C
SCG180481	480	1.8	1	3.8	6,140		C
SCG180483	480	1.8	3	2.2	6,140		C
SCG36081	208	3.6	1	17.3	12,300		S
SCG36083	208	3.6	3	10.0	12,300		C
SCG36041	240	3.6	1	15.0	12,300		S
SCG36043	240	3.6	3	8.7	12,300	58	C
SCG36071	277	3.6	1	13.0	12,300		C
SCG360481	480	3.6	1	7.5	12,300	C	
SCG360483	480	3.6	3	4.3	12,300		S
SCG36063	600	3.6	3	6.3	12,300		C
SCG76081	208	7.6	1	36.5	25,930		C
SCG76083	208	7.6	3	21.1	25,930		C
SCG76041	240	7.6	1	31.7	25,930		C
SCG76043	240	7.6	3	18.3	25,930	94	C
SCG76071	277	7.6	1	27.4	25,930		C
SCG760481	480	7.6	1	15.8	25,930		C
SCG760483	480	7.6	3	9.2	25,930	C	
SCG76063	600	7.6	3	9.2	25,930		C
T3A TEMPERATURE RATING (356 DEG. F)							
SCG32081	208	3.2	1	15.4	11,000		C
SCG32083	208	3.2	3	8.9	11,000		C
SCG32041	240	3.2	1	13.3	11,000		C
SCG32043	240	3.2	3	7.7	11,000	84	C
SCG32071	277	3.2	1	11.6	11,000		C
SCG320481	480	3.2	1	6.7	11,000		C
SCG320483	480	3.2	3	3.8	11,000		C
SCG32063	480	3.2	3	5.6	11,000		C

ACCESSORIES (Factory Installed Only)

CATALOG NUMBER	DESCRIPTION
T	Thermostat 45°-85°F.(Class I, Group C & D only)
CX	24V Control Contactor and Transformer (See note #2 below)
CX1	120V Control Contactor and Transformer (see note #3 below)
TB	Thermostat 45-85 deg. F (Class 1, group B,C, & D)

NOTE 1: Units with factory built-in controls will increase in length by 2.75" over what is shown above.

NOTE 2: 480 volt unit heaters with built-in thermostat require "CX" option.

NOTE 3: All units with status "C" or "AS" are made-to-order and are non-returnable. See below for availability status.

HIGH TEMPERATURE ELECTRIC BLOWER HEATERS

BSDH

APPLICATIONS:

High BTU per hour heater without the exhaust fumes or moisture associated with gas heat. Comfort heating and process heating applications up to 180° F. and can be operated unattended without risk of fire or need for refueling. Fan-only operation for air recirculation, fume exhaust, or fresh air supply. Dual thermostat operation. 120 volt control supply. 120 volt control transformer with pilot light. Over temperature limit protects unit from low air flow conditions. Powder coated corrosion resistant 20 gauge steel housing. 10" pneumatic wheels and 4" locking caster. Inlet and outlet flexible duct accessories available for ducting up to 165'. Adjustable damper accessory allows outlet temperature to be controlled.

FEATURES:

- Drip proof, 1 hp motor with adjustable pulleys allowing for adjustable fan speeds.
- 10" Pneumatic Tires.
- Thermostat 60-180° F with provisions for interface with remote thermostat.
- Fan Switch for fan only operation.
- Contactor.
- Control Transformer.
- Temperature high limit cutout.



CATALOG NUMBER	UPC	KW	VOLTAGE (3PHASE)	AMPS	BTUH	TEMP RISE (DEG. F)	DIMENSIONS	SHIP WT. (LBS.)
BSDH3043	6 85360 14912 7	30	480	37.2	102,236	35-88	44"L x 25.4"W x 38.5"H	150
BSDH3093	6 85360 14915 8	30	600	30.0	102,236	35-88	44"L x 25.4"W x 38.5"H	150
BSDH4843	6 85360 14916 5	48	480	58.9	163,776	59-141	44"L x 25.4"W x 38.5"H	160
BSDH4893	6 85360 14919 6	48	600	47.3	163,776	59-141	44"L x 25.4"W x 38.5"H	170
BSDH6043	6 85360 14920 2	60	480	73.3	204,720	70-172	44"L x 25.4"W x 38.5"H	170
BSDH6093	6 85360 14923 3	60	600	58.9	204,720	70-172	44"L x 25.4"W x 38.5"H	170

ACCESSORIES

CATALOG NUMBER	UPC	DIMENSIONS	SHIP WT. (LBS.)
BSDHFX20	6 85360 15073 4	20" Diameter Flexible Duct (25 feet)	4
BSDHDA20	6 85360 15077 2	20" diameter Adaptor Ring	2
BSDHDK20	6 85360 15075 8	20" diameter Splice Kit	40
BSDHDC	6 85360 15079 6	20" diameter duct clamp	3
BSDHAD	6 85360 15081 9	Adjustable Damper	12

PORTABLE ELECTRIC BLOWER HEATERS - BDH

APPLICATIONS:

The high output, industrial grade, portable electric blower is a work horse. The BDH Series heater can be left unattended without the threat of poisoning from combustion by-products, associated with fuel fired heaters. Practical uses are factories, enclosed areas, enclosed smoking areas, building construction where "localized" temporary heat is needed, and repair stations are just a few examples of where BDH Series portable blower heaters can be used.

FEATURES:

- Heavy duty spiral fin tube metal sheath elements.
- cETLus certified.
- 10KW, 15KW and 30KW heat output available.
- Voltages include 208V, 240V and 480V.
- Fan only operation for summer use.
- Single and three phase operation.
- Safe to operate in unattended areas.
- 10 inch pneumatic wheels.
- Thermostat selector switch.
- Ceiling / wall bracket option available.
- Cord sets for power supply feed available.

CATALOG NUMBER	UPC 6 85360	KW	VOLTS	BTUH	PH	AMPS	DIMENSIONS.	SHIP WT. (LBS.)	STATUS
BDH1021A	15217 2	10	240	34,120	1	41.7	40" H X 30" W X 24" D	65	S
BDH1021CKA	15258 5	10	240	34,120	1	41.7	40" H X 30" W X 24" D	65	S
BDH1583A	15225 7	15	208	51,180	3	41.8	40" H X 30" W X 24" D	65	NS
BDH1521A	15219 6	15	240	51,180	1	62.5	40" H X 30" W X 24" D	65	NS
BDH1523A	15221 9	15	240	51,180	3	36.3	40" H X 30" W X 24" D	65	NS
BDH1543A	15223 3	15	480	51,180	3	18.6	40" H X 30" W X 24" D	65	S
BDH3043A	15227 1	30	480	102,360	3	36.3	40" H X 30" W X 24" D	75	NS

NOTE: BDH1021CKA includes cord & plug kit packaged inside heater carton.

CATALOG NUMBER	WIRE SIZE/ TYPE	LENGTH OF CABLE	FOR USE WITH HEATER MODEL	SHIP WT. (LBS.)
DHCWM	-	-	Ceiling and wall bracket can be used on all models	20
SCS25043	4/3 SO	25'	DH1521A	22
SCS10063	6/3 SO	10'	DH1021A (10ft long w/plug)	18
SCS25064	6/4 SO	25'	DH1583A, DH1523A, DH3043A	20
SCS25124	12/4 SO	25'	DH15443A	10

NOTE: Cord and plug accessories are located on pg. 70.



INDUSTRY	HEATING APPLICATIONS:	VENTILATION APPLICATIONS:	EXHAUST APPLICATIONS:
Mining Coal Metal	Non hazardous areas. Freeze protection & maintenance comfort	Non hazardous areas. Maintenance comfort in the summer	Non hazardous areas. Maintenance removing noxious fumes for personnel
Oil & Gas Extraction	Non hazardous areas. Freeze protection & maintenance comfort	Non hazardous areas. Maintenance comfort in the summer	Non hazardous areas. Maintenance removing noxious fumes for personnel
Contractors Painting Plastering Floor Laying Concrete Work	Freeze protection Speed drying or curing Worker comfort	Speed drying Worker comfort in closed areas	Remove non hazardous fumes for worker comfort
Food Processing Canned Fruits & Veg Dehydrated Fruits & Veg Flour & Grain Milling Prepared Feeds Sugar Refining Soybean & Other Oil Mills	Insect control Freeze protection Maintenance worker comfort	Worker comfort in closed areas	Remove non hazardous fumes for worker comfort
Tobacco Processing	Insect control Freeze protection Maintenance worker comfort	Worker comfort in closed areas	Remove non hazardous fumes for worker comfort
Textile Mills	Freeze protection Maintenance worker comfort	Worker comfort in closed areas	Remove non hazardous fumes for worker comfort
Pulp & Paper Mills	Freeze protection Speed drying Maintenance worker comfort	Worker comfort in closed areas	Remove non hazardous fumes for worker comfort
Printing Plants	Freeze protection Speed drying Maintenance worker comfort	Worker comfort in closed areas	Remove non hazardous fumes for worker comfort
Chemical Plants	Non hazardous areas. Freeze protection & maintenance comfort	Non hazardous areas. Maintenance comfort in the summer	Non hazardous areas. Maintenance removing noxious fumes for personnel
Plastic Manufacturing	Non hazardous areas. Freeze protection & maintenance comfort	Non hazardous areas. Maintenance comfort in the summer	Non hazardous areas. Maintenance removing noxious fumes for personnel
Metal Industries Steel Aluminum	Freeze protection Maintenance comfort	Maintenance comfort in the summer	Maintenance comfort in the summer
Transportation Equipment Autos Trucks Buses Rail Road	Maintenance and freeze protection	Maintenance comfort in the summer	Maintenance comfort in the summer
Truck Trailer Docks	Comfort heating during loading or unloading	Comfort heating during loading or unloading	
Naval Bases & Marinas Land Aboard Ship	Maintenance comfort heating Freeze protection or drying	Maintenance comfort ventilating	Non hazardous areas. Maintenance removing noxious fumes for personnel
Air Transportation Manufacturing Maintenance Hangers Airports	Freeze protection Maintenance comfort heating		
Equipment Rental Companies	Comfort heating at events Emergency heating for comfort & freeze protection. Drying after flood	Comfort ventilating at events	
Miscellaneous Applications Libraries Museums	Control of destructive insect pests in museums, homes and other repositories for valuables, artifacts and art objects.		

PORTABLE ELECTRIC HEATERS - TBX MOBILE WARMING™

**Heat where you need it!
When you need it!**

The TBX Series Mobile Warmer™ is a powerful portable heater. Made of heavy gauge steel and polyester powder coat paint. The unit also Features a latched storage area on top for miscellaneous items such as tools and hardware or lunch. 10 inch diameter pneumatic wheels allow for easy rolling over obstacles to the spot where heat is needed.

APPLICATIONS:

- Factories, Stores, Warehouses, Stockrooms.
- Flood dry-out, Workshops, Repair Stations.
- Building Construction, Drywall Dry-out.
- Tent Heating, Greenhouse Heating, Frozen Pipe Thaw-out.

FEATURES:

- Includes 8 ft cord and NEMA 6-50P plug (requires NEMA 6-50R receptacle).
- Thermostat with positive off and fan only position (Range 40°F to 100°F).
- Heats lower to floor for natural convection.
- Lower profile to prevent tipping.
- Storage area under lid.
- Rugged steel finned element construction.
- High temperature safety limit.
- Collapsible handle for easy transport & storage.



(US Patented No. D559,962)

CATALOG NUMBER	UPC 6-85360	KW	VOLTAGE	AMPS	BTUH	DIMENSIONS	SHIP WT. (LBS.)
TBX104	15127 4	9.5	240	39.6	32,424	28.5" H x 25" W x 18.5" D	70
TBX754	15128 1	7.5	240	31.2	52,598	28.5" H x 25" W x 18.5" D	70



INSTITUTIONAL ELECTRIC CONVECTORS

UCJ



APPLICATIONS:

KCJ Series type convector is designed with low operating temperatures and is U.L. listed. This is a rugged, wall mounted, tamper resistant convection heater designed to provide heat in correctional or rehabilitational institutions where safety is a major concern.

FEATURES:

- 140°F maximum surface temperature in a 70°F ambient.
- Internal tamper resistant thermostat with 55° to 100°F range.
- 12 gauge perforated steel, sloped top cover. Finished in a neutral grey durable powder paint.
- Internal DPST disconnect switch.

DIMENSIONS

WATTAGE	LENGTH	HEIGHT	DEPTH
400	24"	16"	5"
500	28"	16"	5"
750	36"	16"	5"
1000	48"	16"	5"
1250	60"	16"	5"
1500	72"	16"	5"
2000	96"	16"	5"

NOTE: These products are Made-to-order and cannot be returned.

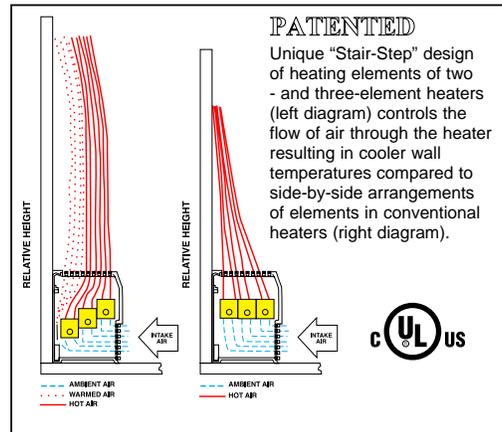
CATALOG NUMBER	HEATER VOLTS	WATTS	AMPS	SHIP WT. (LBS.)
UCJ400	120		3.3	
UCJ408	208		1.9	
UCJ404	240	400	1.7	40
UCJ407	277		1.4	
UCJ500	120		4.2	
UCJ508	208		2.4	
UCJ504	240	500	2.2	45
UCJ507	277		1.8	
UCJ750	120		6.3	
UCJ758	208		3.6	
UCJ754	240	750	3.3	55
UCJ757	277		2.7	
UCJ753	347		2.2	
UCJ1000	120		8.3	
UCJ1008	208		4.8	
UCJ1004	240	1000	4.4	65
UCJ1007	277		3.6	
UCJ1003	347		2.9	
UCJ1006	600		1.7	
UCJ1250	120		10.4	
UCJ1258	208		6	
UCJ1254	240	1250	5.4	80
UCJ1257	277		4.5	
UCJ1253	347		3.6	
UCJ1256	600		2.1	
UCJ1500	120		12.5	
UCJ1508	208		7.2	
UCJ1504	240	1500	6.5	95
UCJ1507	277		5.4	
UCJ1503	347		4.3	
UCJ1506	600		2.5	
UCJ2008	208		9.6	
UCJ2004	240		8.8	
UCJ2007	277	2000	7.2	95
UCJ2003	347		5.8	
UCJ2006	600		3.3	

ARCHITECTURAL SILL-HEIGHT CONVECTION HEATERS - ASL3* & ASL5

- Selection, beauty, and performance — in a wide range of models, ratings and accessories for use in offices, corridors, lobbies and similar facilities.
- Architectural styling incorporates a patented "Stair-Step" heating element arrangement in two- and three-element ASL5 heaters for more efficient heat distribution. (See element arrangement picture.)
- Unique "Snap-Lock" closure design secures the one-piece extruded aluminum top and front grilles to the one-piece back and bottom. This closure method provides a rapid, secure fit all along the length of the unit.
- Units can be wall-to-wall or mounted as discrete units in standard lengths of 28 inches to ten feet. Custom length cabinets with single or multiple heat decks are available, as are pedestal mounts.
- Standard units are equipped with a built-in wireway (equivalent to 3/4" conduit) with factory-installed wiring which permits multiple heater connections. Units are designed for either right or left hand entry for easy connection of supply wiring from bottom, rear or end, as well as multiple wiring of adjacent heaters from one entry point.
- Optional built-in controls include: line-voltage thermostat; two-stage thermostat; power On /Off switch; transformer relay; power relay and pneumatic/switch.

Note: These products are Made-to-order and cannot be returned.

* ASL3 Models are approved for residential use. (Refer to specifications.)

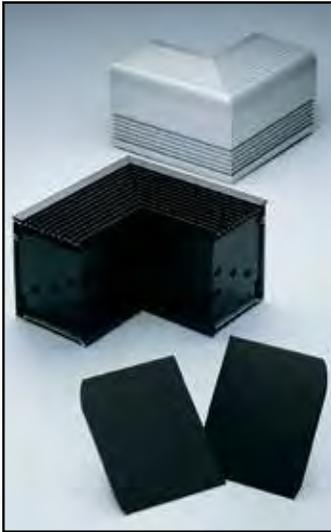


CABINET STYLES

Two cabinet styles are available. The ASL3 is 3-5/8" x 6" and is available with one heating element. The ASL5 is 5-3/8" x 7" and is available with one, two, or three-elements. Both sizes are available in two versions: front-in top-out, and bottom-in top-out.

OTHER SPECIAL FEATURES:

ASL3 AND ASL5



TRIM ACCESSORIES

Accessories include a complete line of matching blank sections, end caps, filler sections, inside and outside corners, diagonal end sections, and splice plates.

MULTIPLE FINISHES

Heating units are available in rich anodized finishes and a spectrum of muted architectural colors in baked enamel finishes which are compatible with all interior decors.

MULTIPLE HEATING CAPACITIES

Units are available in a wide range of heating capacities per foot length: 100 watts (341 BTU per hour) to 750 watts (2560 BTU per hour).

THERMAL CUTOUT

Thermal limit switch with linear type (full length) sensing bulb provides constant protection against overheating from any cause. The switch will automatically reset when normal operating temperatures are restored.

SMOOTH FINISHED BACK

The back of both the ASL3 and ASL5 is void of any fasteners, giving it a clean appearance. Knockouts on the back for access to the junction boxes can be deleted on request to further enhance the appearance. The back will not be painted or anodized to match the front unless requested.

PENCIL-PROOF GRILLES

The discharge air openings in the top grille are punched slots which are pencil-proof for safety. The inlet air grille utilizes these same slots which creates an attractive installation where the inlet grille is visible.

DIAGONAL END SECTION

Architectural styled section to compliment the ASL3/5 units. Designed to give the unit a finished look when used as a stand alone, or where a wall to wall run is not desired.

CATALOG NUMBER	LENGTH "L" (mm)	WATTS PER FT.	TOTAL WATTS	AMPERAGE						SHIP WT. (LBS.)
				120V	208V	240V	277V	347V	600V	
ASL302	28" (711mm)	100	200	1.7	1.0	0.8	-	-	-	8
		125	250	2.1	1.2	1.0	0.9	-	-	
		150	300	2.5	1.4	1.3	1.1	-	-	
		188	376	3.1	1.8	1.6	1.4	-	-	
		250	500	4.2	2.4	2.1	1.8	1.4	-	
ASL303	3' (914mm)	100	300	2.5	1.4	1.3	1.1	-	-	10
		125	375	3.1	1.8	1.6	1.4	1.1	-	
		150	450	3.8	2.2	1.9	1.6	1.3	-	
		188	564	4.7	2.7	2.4	2.0	1.6	-	
		250	750	6.3	3.6	3.1	2.7	2.2	-	
ASL304	4' (1219mm)	100	400	3.3	1.9	1.7	1.4	1.2	-	13
		125	500	4.2	2.4	2.1	1.8	1.4	-	
		150	600	5.0	2.9	2.5	2.2	1.7	-	
		188	752	6.3	3.6	3.1	2.7	2.2	1.3	
		250	1000	8.3	4.8	4.2	3.6	2.9	1.7	
ASL305	5' (1524mm)	100	500	4.2	2.4	2.1	1.8	1.4	.08	17
		125	625	5.2	3.0	2.6	2.3	1.8	1.0	
		150	750	6.3	3.6	3.1	2.7	2.2	1.3	
		188	940	7.8	4.5	3.9	3.4	2.7	1.6	
		250	1250	10.4	6.0	5.2	4.5	3.6	2.1	
ASL306	6' (1829mm)	100	600	5.0	2.9	2.5	2.2	1.7	1.0	20
		125	750	6.3	3.6	3.1	2.7	2.2	1.3	
		150	900	7.5	4.3	3.8	3.2	2.6	1.5	
		188	1128	9.4	5.4	4.7	4.1	3.3	1.9	
		250	1500	12.5	7.2	6.3	5.4	4.3	2.5	
ASL307	7' (2134mm)	100	700	-	3.4	2.9	2.5	2.0	1.2	24
		125	875	-	4.2	3.6	3.2	2.5	1.5	
		150	1050	-	5.0	4.4	3.8	3.0	1.8	
		188	1316	-	6.3	5.5	4.8	3.8	2.2	
		250	1750	-	8.4	7.3	6.3	5.0	2.9	
ASL308	8' (2438mm)	100	800	-	3.8	3.3	2.9	2.3	1.3	27
		125	1000	-	4.8	4.2	3.6	2.9	1.7	
		150	1200	-	5.8	5.0	4.3	3.5	2.0	
		188	1504	-	7.2	6.3	5.4	4.3	2.5	
		250	2000	-	9.6	8.3	7.2	5.8	3.3	
ASL309	9' (2743mm)	100	900	-	4.3	3.8	3.2	2.6	1.5	30
		125	1125	-	5.4	4.7	4.1	3.2	1.9	
		150	1350	-	6.5	5.6	4.9	3.9	2.3	
		188	1692	-	8.1	7.1	6.1	4.9	2.8	
		250	2250	-	10.8	9.4	8.1	6.5	3.8	
ASL310	10' (3048mm)	100	1000	-	4.8	4.2	3.6	2.9	1.7	33
		125	1250	-	6.0	5.2	4.5	3.6	2.1	
		150	1500	-	7.2	6.3	5.4	4.3	2.5	
		188	1880	-	9.0	7.8	6.8	5.4	3.1	
		250	2500	-	12.0	10.4	9.0	7.2	4.2	

NOTE:

1. Cabinet available up to 15' length. Custom length cabinets are priced with heater and blank to the next larger size.
2. Backs are provided standard with no finish. For finished backs, add 10% to List price.
3. Knockouts on back omitted by request only.

All models are NON-STOCK made-to-order. When ordering, specify quantity, catalog number, voltage, wattage, optional controls, and color. Consult sales representative for lead times.

OTHER SPECIAL FEATURES:

ASL5

CATALOG NUMBER	LENGTH "L"	WATTS PER FT.	TOTAL WATTS	AMPERAGE						SHIP WT. (LBS.)
				120V	208V	240V	277V	347V	600V	
ASL502	28" (711mm)	100	200	1.7	1.0	0.8	-	-	-	8
		125	250	2.1	1.2	1.0	0.9	-	-	
		150	300	2.5	1.4	1.3	1.1	-	-	
		188	376	3.1	1.8	1.6	1.4	-	-	
		250	500	4.2	2.4	2.1	1.8	1.4	-	
ASL503	3' (914mm)	100	300	2.5	1.4	1.3	1.1	-	-	10
		125	375	3.1	1.8	1.6	1.4	1.1	-	
		150	450	3.8	2.2	1.9	1.6	1.3	-	
		188	564	4.7	2.7	2.4	2.0	1.6	-	
		250	750	6.3	3.6	3.1	2.7	2.2	-	
ASL504	4' (1219mm)	100	400	3.3	1.9	1.7	1.4	1.2	-	13
		125	500	4.2	2.4	2.1	1.8	1.4	-	
		150	600	5.0	2.9	2.5	2.2	1.7	-	
		188	752	6.3	3.6	3.1	2.7	2.2	1.3	
		250	1000	8.3	4.8	4.2	3.6	2.9	1.7	
ASL505	5' (1524mm)	100	500	4.2	2.4	2.1	1.8	1.4	0.8	17
		125	625	5.2	3.0	2.6	2.3	1.8	1.0	
		150	750	6.3	3.6	3.1	2.7	2.2	1.3	
		188	940	7.8	4.5	3.9	3.4	2.7	1.6	
		250	1250	10.4	6.0	5.2	4.5	3.6	2.1	
ASL506	6' (1829mm)	100	600	5.0	2.9	2.5	2.2	1.7	1.0	20
		125	750	6.3	3.6	3.1	2.7	2.2	1.3	
		150	900	7.5	4.3	3.8	3.2	2.6	1.5	
		188	1128	9.4	5.4	4.7	4.1	3.3	1.9	
		250	1500	12.5	7.2	6.3	5.4	4.3	2.5	
ASL507	7' (2134mm)	100	700	-	3.4	2.9	2.5	2.0	1.2	24
		125	875	-	4.2	3.6	3.2	2.5	1.5	
		150	1050	-	5.0	4.4	3.8	3.0	1.8	
		188	1316	-	6.3	5.5	4.8	3.8	2.2	
		250	1750	-	8.4	7.3	6.3	5.0	2.9	
ASL508	8' (2438mm)	100	800	-	3.8	3.3	2.9	2.3	1.3	27
		125	1000	-	4.8	4.2	3.6	2.9	1.7	
		150	1200	-	5.8	5.0	4.3	3.5	2.0	
		188	1504	-	7.2	6.3	5.4	4.3	2.5	
		250	2000	-	9.6	8.3	7.2	5.8	3.3	
ASL509	9' (2743mm)	100	900	-	4.3	3.8	3.2	2.6	1.5	30
		125	1125	-	5.4	4.7	4.1	3.2	1.9	
		150	1350	-	6.5	5.6	4.9	3.9	2.3	
		188	1692	-	8.1	7.1	6.1	4.9	2.8	
		250	2250	-	10.8	9.4	8.1	6.5	3.8	
ASL510	10' (3048mm)	100	1000	-	4.8	4.2	3.6	2.9	1.7	33
		125	1250	-	6.0	5.2	4.5	3.6	2.1	
		150	1500	-	7.2	6.3	5.4	4.3	2.5	
		188	1880	-	9.0	7.8	6.8	5.4	3.1	
		250	2500	-	12.0	10.4	9.0	7.2	4.2	

NOTE:

1. Cabinet available up to 15' length. Custom length cabinets are priced with heater and blank to the next larger size.
2. Backs are provided standard with no finish. For finished backs, add 10% to List price.
3. Knockouts on back omitted by request only.

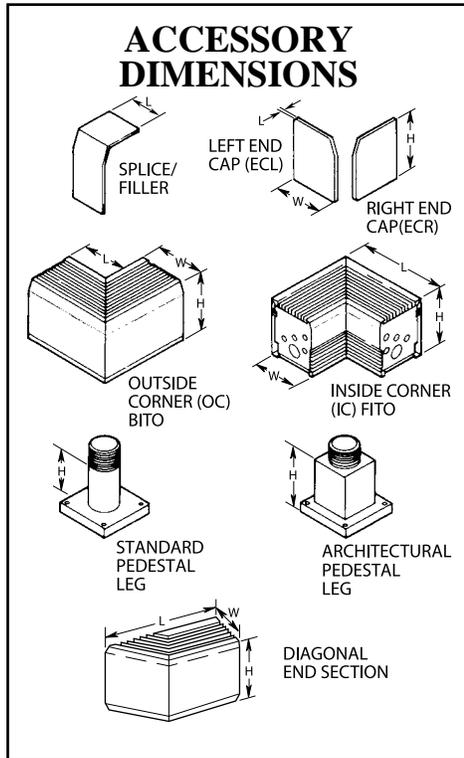
All models are NON-STOCK made-to-order. When ordering, specify quantity, catalog number, voltage, wattage, optional controls, and color. Consult sales representative for lead times.

TABLE 2 - Multiple element units

CATALOG NUMBER	LENGTH "L"	WATTS PER FT.	TOTAL WATTS	AMPERAGE								SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)
				208V		240V		277V	347V	600V			
				1 Ph.	3 Ph.	1 Ph.	3 Ph.	1 Ph.	1 Ph.	1 Ph.	3 Ph.		
ASL502	28" (711mm)	375	750	3.6	-	3.1	-	2.7	-	-	-	3	12
		500	1000	4.8	-	4.2	-	3.6	-	-	-	3	
		600	1200	5.8	3.3	5.0	2.9	4.3	2.9	-	-	3	
		750*	1500	7.2	4.2	6.3	3.6	5.4	4.3	-	-	3	
ASL503	3' (914mm)	375	1125	5.4	-	4.7	-	4.1	-	-	-	2	15.5
		500	1500	7.2	-	6.3	-	5.4	4.3	-	-	3	
		600	1800	8.7	5.0	7.5	4.3	6.5	5.0	-	-	3	
		750*	2250	10.8	6.3	9.4	5.4	8.1	6.5	-	-	3	
ASL504	4' (1219mm)	375	1500	7.2	-	6.3	-	5.4	4.3	-	-	2	20
		500	2000	9.6	-	8.3	-	7.2	5.8	3.3	-	3	
		600	2400	11.5	6.7	10.0	5.8	8.7	6.9	-	-	3	
		750*	3000	14.4	8.3	12.5	7.2	10.8	8.6	5.0	2.9	3	
ASL505	5' (1524mm)	375	1875	9.0	-	7.8	-	6.8	5.4	3.1	-	2	25.5
		500	2500	12.0	-	10.4	-	9.0	7.2	4.2	-	3	
		600	3000	14.4	8.3	12.5	7.2	10.8	8.6	5.0	2.9	3	
		750*	3750	18.0	10.4	15.6	9.0	13.5	10.8	6.3	3.6	3	
ASL506	6' (1829mm)	375	2250	10.8	-	9.4	-	8.1	6.5	3.8	-	2	30
		500	3000	14.4	-	12.5	-	10.8	8.6	5.0	-	3	
		600	3600	17.3	10.0	15.0	8.7	13.0	10.4	6.0	3.5	3	
		750*	4500	21.6	12.5	18.8	10.8	16.2	13.0	7.5	4.3	3	
ASL507	7' (2134mm)	375	2625	12.6	-	10.9	-	9.5	7.6	4.4	-	2	35
		500	3500	16.8	-	14.6	-	12.6	10.1	5.8	-	3	
		600	4200	20.2	11.7	17.5	10.1	15.2	12.1	7.0	4.0	3	
		750*	5250	25.2	14.6	21.9	12.6	19.0	15.1	8.8	5.1	3	
ASL508	8' (2438mm)	375	3000	14.4	-	12.5	-	10.8	8.6	5.0	-	2	40
		500	4000	19.2	-	16.7	-	14.4	11.5	6.7	-	3	
		600	4800	23.1	13.3	20.0	11.6	17.3	13.8	8.0	4.6	3	
		750*	6000	28.8	16.7	25.0	14.5	21.7	17.3	10.0	5.8	3	
ASL509	9' (2743mm)	375	3375	16.2	-	14.1	-	12.2	9.7	5.6	-	2	45
		500	4500	21.6	-	18.8	-	16.2	13.0	7.5	-	3	
		600	5400	26.0	15.0	22.5	13.0	19.5	15.6	9.0	5.2	3	
		750*	6750	32.5	18.8	28.1	16.3	24.4	19.5	11.3	6.5	3	
ASL510	10' (3048mm)	375	3750	18.0	-	15.6	-	13.5	10.8	6.3	-	2	50
		500	5000	24.0	-	20.8	-	18.1	14.4	8.3	-	3	
		600	6000	28.8	16.7	25.0	14.5	21.7	17.3	10.0	5.8	3	
		750*	7500	36.1	20.8	31.3	18.1	27.1	21.6	12.5	7.2	3	

*750W Models Bottom Inlet Only.

ASL3



CATALOG NUMBER	L*	H	W
ASL3IC**	8-1/2"		
ASL3OC**	5"	6"	3 5/8"
ASL3135OC	5"		
ASL3135IC**	8-1/2"		
ASL3DESBL			
ASL3DESBR	9.136"	6"	3-5/8"
ASL3DESFL			
ASL3DESFR			
ASL3ECL			
ASL3ECLR	1/8"	6"	3-5/8"
ASL3ECLS			
ASL3ECRS			
ASL3SP	0"-1/4"	6"	3-5/8"
ASL3FL3	0" - 3"		
ASL3FL6	3" - 6"	6"	3-5/8"
ASL3FL9	6" - 9"		
ASL3FL12	9" - 12"		
ASL3FL18	12" - 18"		
PK3S	0"	2-7/8"	-
PK3A			
PK5S	0"	4-1/8"	-
PK5A			

*L dimension is the additional length the accessory adds to the total installation length.

**Add suffix -B for bottom inlet, -F for front inlet.

CATALOG NUMBER (See note 1)	DIMENSIONS W x H x L	INLET	SHIP WT. (LBS.)
ASL3BS1F ASL3BS1B	3-5/8" x 6" x 1'	Front Inlet Bottom Inlet	4
ASL3BS2F ASL3BS2B	3-5/8" x 6" x 28"	Front Inlet Bottom Inlet	7
ASL3BS3F ASL3BS3B	3-5/8" x 6" x 3'	Front Inlet Bottom Inlet	9
ASL3BS4F ASL3BS4B	3-5/8" x 6" x 4'	Front Inlet Bottom Inlet	12
ASL3BS5F ASL3BS5B	3-5/8" x 6" x 5'	Front Inlet Bottom Inlet	16
ASL3BS6F ASL3BS6B	3-5/8" x 6" x 6'	Front Inlet Bottom Inlet	19
ASL3BS7F ASL3BS7B	3-5/8" x 6" x 7'	Front Inlet Bottom Inlet	22.5
ASL3BS8F ASL3BS8B	3-5/8" x 6" x 8'	Front Inlet Bottom Inlet	24
ASL3BS9F ASL3BS9B	3-5/8" x 6" x 9'	Front Inlet Bottom Inlet	27
ASL3BS10F ASL3BS10B	3-5/8" x 6" x 10'	Front Inlet Bottom Inlet	30

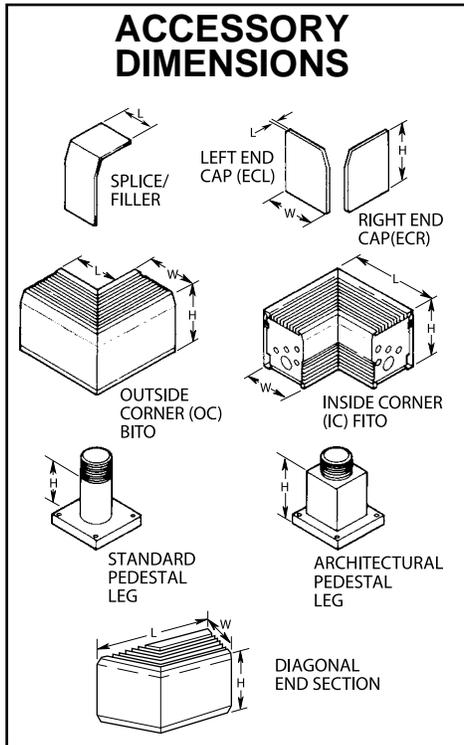
NOTE 1: Blank section grilles are not punched unless requested.

CATALOG NUMBER (See note 1)	DESCRIPTION	ADDITIONAL WALL SPACE REQUIRED	SHIP WT. (LBS.)
ASL3ECL ASL3ECLR ASL3ECLS ASL3ECRS	End Cap - Left End Cap - Right End Cap w/Screws - Left End Cap w/Screws - Right	1/8"	1
ASL3ICF ASL3ICB ASL3OCF ASL3OCB	Inside Corner-Front In Inside Corner-Bottom In Outside Corner-Front In Outside Corner-Bottom In	8-1/2" 8-1/2" 5" 5"	5 5 4 4
ASL3135ICF ASL3135ICB ASL3135OCF ASL3135OCB	135° Inside Corner-Fnt In 135° Inside Corner-Bot In 135° Outside Corner-Fnt In 135° Outside Corner-Bot In	8-1/2" 8-1/2" 5" 5"	5 5 4 4
ASL3DESBL ASL3DESBR ASL3DESFL ASL3DESFR	Dec. End Section-Bot In, Left Dec. End Section-Bot In, Right Dec. End Section-Fnt In, Left Dec. End Section-Fnt In, Right	9-9/64"	5 5 4 4
ASL3SP	Splice Plate	0"-1/4"	1
ASL3FL3 ASL3FL6 ASL3FL9 ASL3FL12 ASL3-FL18	Filler Section 3" Filler Section 6" Filler Section 9" Filler Section 12" Filler Section 18"	0" - 3" 3" - 6" 6" - 9" 9" - 12" 15" - 18"	1 1 1 1 1.5
ASL3DRF ASL3DRB	Receptacle Section-Fnt In Receptacle Section-Bot In	4-1/2"	1.5
ASL3PEF ASL3PEB	Pneu/Ele Sw-Fnt In Pneu/Ele Sw-Bot In	4-1/2"	2
**PK3S	Standard Pedestal	-	2
**PK3A	Architectural Pedestal	-	2
SO1A	Stand-Off Bracket	-	1

*Add suffix -P for painted, -C for clear anodized, -B for bronze anodized (excludes PK3S - Black only).

**One pedestal. Two required on units up to 10', three required on units over 10'.

ASL5



CATALOG NUMBER (See note 1)	DIMENSIONS W x H x L	INLET	SHIP WT. (LBS.)
ASL5BS1F ASL5BS1B	5-3/8" x 7" x 1'	Front Inlet Bottom Inlet	7
ASL5BS2F ASL5BS2B	5-3/8" x 7" x 28"	Front Inlet Bottom Inlet	11
ASL5BS3F ASL5BS3B	5-3/8" x 7" x 3'	Front Inlet Bottom Inlet	14
ASL5BS4F ASL5BS4B	5-3/8" x 7" x 4'	Front Inlet Bottom Inlet	18
ASL5BS5F ASL5BS5B	5-3/8" x 7" x 5'	Front Inlet Bottom Inlet	22
ASL5BS6F ASL5BS6B	5-3/8" x 7" x 6'	Front Inlet Bottom Inlet	27
ASL5BS7F ASL5BS7B	5-3/8" x 7" x 7'	Front Inlet Bottom Inlet	32
ASL5BS8F ASL5BS8B	5-3/8" x 7" x 8'	Front Inlet Bottom Inlet	37
ASL5BS9F ASL5BS9B	5-3/8" x 7" x 9'	Front Inlet Bottom Inlet	40
ASL5BS10F ASL5BS10B	5-3/8" x 7" x 10'	Front Inlet Bottom Inlet	44

NOTE 1: Blank section grilles are not punched unless requested.

CATALOG NUMBER	L*	H	W
ASL5IC** ASL5OC** ASL5135OC ASL5135IC**	10" 5" 5" 10"	7"	5 3/8"
ASL5DESBL ASL5DESBR ASL5DESFL ASL5DESFR	12 1/2"	7"	5 3/8"
ASL5ECL ASL5ECR, ASL5ECLS ASL5ECRS	1/8"	7"	5 3/8"
ASL5SP	0"-1/4"	7"	5 3/8"
ASL5FL3 ASL5FL6 ASL5FL9 ASL5FL12 ASL5FL18	0" - 3" 3" - 6" 6" - 9" 9" - 12" 12" - 18"	7"	5 3/8"
PK3S PK3A	0"	2-7/8"	-
PK5S PK5A	0"	4-1/8"	-

*L dimension is the additional length the accessory adds to the total installation length.

**Add suffix -B for bottom inlet, -F for front inlet.

CATALOG NUMBER (See note 1)	DESCRIPTION	ADDITIONAL WALL SPACE REQUIRED	SHIP WT. (LBS.)
ASL5ECL ASL5ECR ASL5ECLS ASL5ECRS	End Cap - Left End Cap - Right End Cap w/Screws - Left End Cap w/Screws - Right	1/8"	1
ASL5ICF ASL5ICB ASL5OCF ASL5OCB	Inside Corner-Front In Inside Corner-Bottom In Outside Corner-Front In Outside Corner-Bottom In	10" 10" 5" 5"	11 11 7 7
ASL5135ICF ASL5135ICB ASL5135OCF ASL5135OCB	135° Inside Corner-Fnt In 135° Inside Corner-Bot In 135° Outside Corner-Fnt In 135° Outside Corner-Bot In	10" 10" 5" 5"	11 11 7 7
ASL5DESBL ASL5DESBR ASL5DESFL ASL5DESFR	Dec. End Section-Bot In, Left Dec. End Section-Bot In, Right Dec. End Section-Fnt In, Left Dec. End Section-Fnt In, Right	12-1/2"	11 11 7 7
ASL5SP	Splice Plate	0"-1/4"	1
ASL5FL3 ASL5FL6 ASL5FL9 ASL5FL12 ASL5-FL18	Filler Section 3" Filler Section 6" Filler Section 9" Filler Section 12" Filler Section 18"	0"- 3" 3"- 6" 6"- 9" 9"- 12" 15"- 18"	1 1 2 3 5
ASL5DRF ASL5DRB	Receptacle Section-Fnt In Receptacle Section-Bot In	4 1/2"	2
**PK5S **PK5A	Standard Pedestal Architectural Pedestal	- -	2 2
SO1A	Stand-Off Bracket	-	1

*Add suffix -P for painted, -C for clear anodized, -B for bronze anodized (excludes PK3S - Black only).

**One pedestal. Two required on units up to 10'; three required on units over 10'.

ASL3 & ASL5

PEDESTAL PLACEMENT



*Pedestal placement and K.O.'s shown are for standard units custom enclosures and/or heat decks will have pedestal placement and K.O.'s in various locations. Consult factory.

CATALOG NUMBER	A	B	L
ASL3	2"	2-1/4"	28"-10'
ASL5	2-25/32"	2-1/4"	28"-10'

Note: On units longer than 10' three pedestals are required. Consult factory for placement.

HOW TO ORDER ASL SERIES CONVECTORS

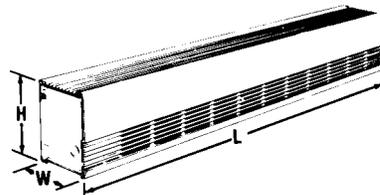
Berko's catalog number is made up of eight groups of numbers and letters to provide a complete description of the product. An example of a typical catalog number is shown below.

If the requirement is for an eight foot long, 5-3/8" x 7" bottom inlet, 750 w/ft., 208V, three phase heater with a built-in power on / off switch, the Berko catalog number would be:

ASL5-08 - 750 - B - 20 - 3 - S - DS DS
 I II III IV V VI VII VIII

- I. PREFIX ASL5 designates the 5-3/8" x 7" cabinet size and ASL3 designates the 5-3/8" x 6" cabinet size.
- II. CABINET LENGTH — For standard heaters (see VII) the heat deck is the same length as the cabinet. Standard cabinet lengths are 02=28", 03=3', 04=4', 05=5', 06=6', 07=7', 08=8', 09=9', & 10=10'.
- III. WATT DENSITY - Standard watt densities for the ASL3 are 100 w/ft., 125 w/ft., 150 w/ft., 188 w/ft., 250 w/ft. Watt densities for the ASL5 include all the ASL3 watt densities plus 375 w/ft., 500 w/ft., 600 w/ft. and 750 w/ft. (750 w/ft. is bottom inlet only).
- IV. INLET AIR CONFIGURATION — B-Bottom Inlet F-Front Inlet.
- V. VOLTAGE — 12-120V, 20-208V, 24-240V, 27-277V.
- VI. Phase — 1=1Ø, 3=3Ø.
- VII. UNIT DESIGNATIONS —
 S - Standard Unit - This unit has the heat deck the same length as the cabinet.
 C - Custom Unit - This unit can have the cabinet longer than the heat deck (example: 6 foot heat

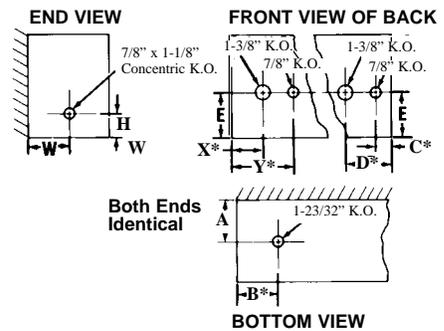
DIMENSIONS



CATALOG NUMBER	A	B	L
ASL3	6"	3-5/8"	28"-15'
ASL5	7"	5-3/8"	28"-12'

Note: On units longer than 10' three pedestals are required. Consult factory for placement.

KNOCKOUTS



*Pedestal placement and K.O.'s shown are for standard units custom enclosures and/or heat decks will have pedestal placement and K.O.'s in various locations. Consult factory.

MINIMUM MOUNTING HEIGHT ABOVE FLOOR

ASL3 & ASL5	Front Inlet	0"
ASL3 & ASL5	Bottom Inlet (9100 w/ft. - 250 w/ft.)	1 3/4"
ASL5	Bottom Inlet (375 w/ft. - 750 w/ft.)	3"

CATALOG NUMBER	A	B	C	D	E
ASL3	2"	2-1/4"	7/8"	2-1/4"	3-3/8"
ASL5	2-25/32"	2-1/4"	7/8"	2-1/4"	3-3/8"

CATALOG NUMBER	A	B	C	D
ASL3	1-1/32"	1-7/8"	1-3/16"	2-9/16"
ASL5	2"	2-3/8"	1-3/16"	2-9/16"

deck in a 7'3" cabinet) or multiple heat decks in a single cabinet (example: a 3 foot and a 28 inch heat deck in an 8'6" cabinet). A custom unit requires the use of a Custom Convector Layout Form to detail the unit for order entry.

- VIII. CONTROLS — The controls that are available are:
 T - single-pole thermostats
 2T - double-pole thermostats
 DS - power on / off switch
 TR - transformer relay
 PR - power relay
 PE - pneumatic/electric switch
 2ST - 2-stage thermostat

OPTIONAL BUILT-IN CONTROLS (FOR ASL3 AND ASL5 CONVECTORS - ALSO SEE PG. 50)

SUFFIX ADDITION TO BASIC CAT. NO. (SEE NOTE D)	OPTIONAL BUILT-IN CONTROL	RATINGS
T	1-Pole Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range; adjustable through outlet grille-tamper-resistant. (See Note B.) Not available on three-phase heaters.
2T	2-Pole Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range; adjustable through outlet grille-tamper-resistant. (See Note B for amperage restrictions.)
DS	Power On / Off Switch	Double-pole, rated 20 amp @ 120-277 VAC. (See Note A.) For 3Ø heaters and 1Ø heaters over 20 amps specify two.
TR	Transformer Relay	Single-pole, low voltage relay with built-in transformer (24 VAC control), rated 22 amps @ 120-240 VAC and 22 amps @ 277 VAC. (See Note E) 17 amps @ 347V, 12 amps @ 600V. Not available for 3Ø heaters.
PR	Power Relay	Single-pole thermal time delay relay, rated 25 amps @ 120-600 VAC. (See Notes E & F). Specify control voltage.
2ST	2-Stage Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range, adjustable through outlet grille-tamper-resistant. Available on 2- or 3-element, single phase heaters only.
PE	Pneumatic/Electric Switch	Pressure set-point @ 10 PSIG adjustable to 30 PSIG. Can be set to "make" or "break" on pressure drop. Rated 25 amps @ 120-277 VAC. (See Note G)
PDT	1-Pole Thermostat	Same as -T except Pilot Duty. (See note C)
2TPD	2-Pole Thermostat	Same as -2T except Pilot Duty. (See note C & D)
M	Outlet Mesh	Price per foot.

NOTES:

- A. For 1Ø loads over 20A and all 3Ø loads, specify 2 power on / off switch.
- B. This control option is not available on single-phase heaters over 24 amps (22 amps on 277 VAC). In combination with the power on / off switch option use the 2ST thermostat option on heaters over 20 amps.
- C. A second transformer relay can be sequenced off the first transformer relay in the same heater. Up to 30 power relays in different heaters can be controlled by one single-stage pilot duty thermostat.
- D. Up to 30 power relays in different heater can be controlled by each stage of a two-stage pilot duty thermostat.
- E. Two relays are required on single-phase heaters over 20 amps with a power on / off switch, over 25 amps without a power on / off switch and on all three-phase heaters. Two relays are available for two-stage on two or three-element heaters only.
- F. Three power relays are available for three-stage on three-element heaters only.
- G. Fits in ASL5 unit only. For ASL3, PE will be installed in 4-1/2" section.

SLIMLINE ALUMINUM CONVECTION HEATERS

ASLC

APPLICATIONS:

Made to order, slim compact design in a wide range of models, ratings and accessories for use in residential or light commercial settings. Architectural styling is perfect for multifamily homes, condominiums, institutions, retail spaces, restaurants, hotels, offices and similar areas. Approved for residential use.

FEATURES:

Two piece extruded aluminum housing comes in two styles, front inlet top outlet and bottom inlet top outlet with architectural pedestal mounts. Units can be mounted wall-to-wall or as discrete units in standard lengths of 24 inches to 12 feet. Epoxy powder coat paint colors and color matching (upon request at additional cost) will blend the units with the surrounding decor.

In addition to the standard end caps, available accessories include inside and outside corners, decorative end pieces and blank sections to complete a full length run. Inside and outside corners can be ordered factory cut and mitered to fit difficult or unusual spaces for a custom finished appearance.

Unique "Snap-Lock" closure design secures the one-piece extruded aluminum top and front grille to the one-piece back and bottom. This closure method provides a rapid, secure fit all along the length of the unit.

Standard units are equipped with a built-in wireway (equivalent to 1/2" conduit) with factory-installed wiring which permits multiple heater connections. Units can be ordered either right or left hand entry for easy connection of supply wiring from bottom, rear or end, as well as multiple wiring of adjacent heaters from one entry point.

Note: These heaters have been approved for residential and commercial applications.



The bottom inlet unit is only 2-3/4" wide by 6" tall. This model can be mounted to the wall (3" above the floor) or in front of a window application, mounted on pedestals.



The front inlet unit is also 2-3/4" wide by 6" tall. This model can be mounted to the wall or directly to the floor.



Hollow pedestals allow concealed wiring access when stubbed through concrete floors.



SPECIFICATIONS

CATALOG NUMBER (See Note 2)	DIMENSIONS (See Note 1) W x H x L	WATT DENSITY	NO. OF ELEMENTS	SHIP WT. (LBS.)
ASLC01	2-3/4" x 6" x 24"	125 W/Ft. ** 150 W/Ft. *** 188 W/Ft. * 250 W/Ft. ****	1	8
ASLC02	2-3/4" x 6" x 28"	100 W/Ft. * 125 W/Ft. * 150 W/Ft. * 188 W/Ft. * 250 W/Ft. **	1	8
ASLC03	2-3/4" x 6" x 3'	100 W/Ft. * 125 W/Ft. ** 150 W/Ft. ** 188 W/Ft. ** 250 W/Ft. **	1	10
ASLC04	2-3/4" x 6" x 4'	100 W/Ft.** 125 W/Ft.** 150 W/Ft.** 188 W/Ft.** 250 W/Ft.**	1	13
ASLC05	2-3/4" x 6" x 5'	100 W/Ft.** 125 W/Ft. 150 W/Ft. 188 W/Ft. 250 W/Ft.	1	17
ASLC06	2-3/4" x 6" x 6'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft. 250 W/Ft.	1	20
ASLC07	2-3/4" x 6" x 7'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft. 250 W/Ft.	1	24
ASLC08	2-3/4" x 6" x 8'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft. 250 W/Ft.	1	27
ASLC09	2-3/4" x 6" x 9'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft. 250 W/Ft.	1	30
ASLC10	2-3/4" x 6" x 10'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft. 250 W/Ft.	1	33

- Cabinet available up to 12' length.
 - Backs are provided standard with no finish. For finished backs, add 10% to List price.
 - Knockouts on back omitted by request only.
 - + Not available in 220V, 347V or 600V.
 - ++ Not available in 120V, 208V, 240V, 277V, 347V or 600V.
 - +++ Not available in 120V, 220V, 277V, 347V or 600V.
 - ++++ Not available in 120V, 220V, 347V or 600V.
 - * Not available in 347V or 600V.
 - ** Not available in 600V.
 - ‡ Not available in 277V, 347V, or 600V.
- NOTE: All models are NON-STOCK made-to-order. s ordering, specify quantity, catalog number, voltage, wattage, optional controls, and color.
Consult sales representative for lead times.

BLANK SECTIONS & ACCESSORIES (FOR MODEL ASL CONVECTORS)

CATALOG NUMBER (See Note 1)	DIMENSIONS W x H x L	INLET	SHIP WT. (LBS.)
SLCBS1F	2-3/4" x 6" x 1'	Front Inlet	4
SLCBS1B		Bottom Inlet	
SLCBS2F	2-3/4" x 6" x 28"	Front Inlet	7
SLCBS2B		Bottom Inlet	
SLCBS3F	2-3/4" x 6" x 3'	Front Inlet	9
SLCBS3B		Bottom Inlet	
SLCBS4F	2-3/4" x 6" x 4'	Front Inlet	12
SLCBS4B		Bottom Inlet	
SLCBS5F	2-3/4" x 6" x 5'	Front Inlet	16
SLCBS5B		Bottom Inlet	
SLCBS6F	2-3/4" x 6" x 6'	Front Inlet	19
SLCBS6B		Bottom Inlet	
SLCBS7F	2-3/4" x 6" x 7'	Front Inlet	22.5
SLCBS7B		Bottom Inlet	
SLCBS8F	2-3/4" x 6" x 8'	Front Inlet	24
SLCBS8B		Bottom Inlet	
SLCBS9F	2-3/4" x 6" x 9'	Front Inlet	27
SLCBS9B		Bottom Inlet	
SLCBS10F	2-3/4" x 6" x 10'	Front Inlet	30
SLCBS10B		Bottom Inlet	

NOTE: Blank section grilles are not punched unless requested.

CATALOG NUMBER*	DESCRIPTION	ADDITIONAL WALL SPACE REQUIRED	SHIP WT. (LBS.)
SLCECL	End Cap - Left	1/8"	1
SLCECR	End Cap - Right	1/8"	1
SLCICF	Inside Corner-Front In	8-1/2"	5
SLCICB	Inside Corner-Bottom In	8-1/2"	5
SLCOCF	Outside Corner-Front In	5"	4
SLCOCB	Outside Corner-Bottom In	5"	4
SLCDESB	Dec. End Section-Bot In, Left	9-9/64"	5
SLCDESBR	Dec. End Section-Bot In, Right	9-9/64"	5
SLCDESFL	Dec. End Section-Fnt In, Left	9-9/64"	4
SLCDESFR	Dec. End Section-Fnt In, Right	9-9/64"	4
SLCSP	Splice Plate	0" - 1/4"	1
SLCFL3	Filler Section 3"	0" - 3"	1
SLCFL6	Filler Section 6"	3" - 6"	1
SLCFL9	Filler Section 9"	6" - 9"	1
SLCFL12	Filler Section 12"	9" - 12"	1
SLCFL18	Filler Section 18"	12" - 18"	1.5
SLCFL24	Filler Section 24"	18" - 24"	1.5
SLCDRF	Receptacle Section-Fnt In	4-1/2"	1.5
SLCDRB	Receptacle Section-Bot In	4-1/2"	1.5
SLCPEF	Pneu/Ele Sw-Fnt In	4-1/2"	2
SLCPEB	Pneu/Ele Sw-Bot In	4-1/2"	2
SLCPK3A **	Architectural Pedestal	-	2
SO1A	Stand-Off Bracket	-	1

- * Add suffix -P for painted, -C for clear anodized, -B for bronze anodized.
- ** One pedestal. Two required on units up to 10', three required on units over 10'.

SUFFIX ADDITION TO BASIC CAT. NO. (SEE NOTE D)	OPTIONAL BUILT-IN CONTROLS	RATINGS
T	1-Pole Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range adjustable through outlet grille-tamper-resistant. (See Note B.)
2T	2-Pole Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range adjustable through outlet grille-tamper-resistant. (See Note B for amperage restrictions.)
DS	Power On / Off Switch	Double-pole, rated 20 amp @ 120-277 VAC. (See Note A.) For heaters over 20 amps specify two.
TR	Transformer Relay	Single-pole, low voltage relay with built-in transformer (24 VAC control), rated 25 amps @ 120-240 VAC and 22 amps @ 277 VAC. (See Note E and F) 17 amps @ 347V, 12 amps @ 600V. Not available for 3Ø heaters.
PR	Power Relay	Single-pole magnetic relay, rated 25 amps @ 120-600 VAC. (See Notes E). Specify control voltage.
PE	Pneumatic / Electric Switch	Pressure set-point @ 10 PSIG adjustable to 30 PSIG. Can be set to "make" or "break" on pressure drop. Rated 25 amps @ 120-277 VAC. (See Note F.)
PDT	1-Pole Thermostat	Same as -T except Pilot Duty. (See note C)
R	Receptacle	For built-in or as installed in a control section.

- For 1Ø loads over 20A, specify 2 power on / off switches.
- This control option is not available on single-phase heaters over 24 amps (22 amps on 277 VAC). In combination with the power on / off switch option use the 2T thermostat option on heaters over 20 amps.
- Requires PR or TR.
- Up to 30 power relays in different heaters can be controlled by each stage of a two-stage pilot duty thermostat.
- Two relays are required on single-phase heaters over 20 amps with a disconnect switch, over 25 amps without a disconnect switch.
- For ASLC Series the TR (transformer relay) R (Duplex Receptacle) PE (Pneumatic switch) will be installed in separate 4 inch long internal control boxes.

DRAFT BARRIER HEATERS

BDBSL



These draft barrier models are only 4 inches tall. These models can be mounted to the wall (2" above the floor) or mounted on pedestals. The maximum wattage available is up to 188 watts per linear foot.

APPLICATIONS:

Berko® Draft Barrier Heaters are designed to provide supplementary heat directly under windows where they counteract cold down drafts, minimize condensation and prevent chilly areas from forming at floor level. They permit year-round use of all building space right up to the outside wall. No need to move desks, chairs, tables and people away from the windows in cold weather. The heaters spread a blanket of warm air precisely at the area of greatest heat loss — the windows. Ideal for residential or light commercial applications. Architectural styling is perfect for multifamily homes, condominiums, institutions, retail spaces, restaurants, hotels, offices and similar areas.

FEATURES:

Two piece extruded aluminum housing is available in bottom inlet top outlet only and can be mounted directly to the wall or with architectural pedestal mounts. Custom powder coat paint colors or color matching (upon request) will blend the units with the surrounding decor.

In addition to the standard end caps, available accessories include inside and outside corners, decorative end pieces and blank sections to complete a full length run. Inside and outside corners can be ordered factory cut and mitered to fit difficult or unusual spaces for a custom finished appearance.

Unique "Snap-Lock" closure design secures the one-piece extruded aluminum top and front grille to the one-piece back and bottom. This closure method provides a rapid, secure fit all along the length of the unit.

Units can be mounted wall-to-wall or as discrete units in standard lengths of 24 inches to ten feet. Custom length cabinets are available, up to 12 feet.

Standard units are equipped with a built-in wireway with factory-installed wiring which permits multiple heater connections.

Units are designed for either right or left hand entry for easy connection of supply wiring from bottom, rear or end, as well as multiple wiring of adjacent heaters from one entry point.

Note: These heaters have been approved for residential use and commercial use applications.

SPECIFICATIONS				
CATALOG NUMBER (See Note 2)	DIMENSIONS (See Note 1) W x H x L	WATT DENSITY	NO. OF ELEMENTS	SHIP WT. (LBS.)
BDBSL024	2-5/8" x 4" x 24"	100 W/Ft. ‡ 125 W/Ft. * 150 W/Ft. * 188 W/Ft. *	1	8
BDBSL028	2-5/8" x 4" x 28"	100 W/Ft. ‡ 125 W/Ft. * 150 W/Ft. * 188 W/Ft. *	1	8
BDBSL03	2-5/8" x 4" x 3'	100 W/Ft. * 125 W/Ft. ** 150 W/Ft. ** 188 W/Ft. **	1	10
BDBSL04	2-5/8" x 4" x 4'	100 W/Ft. ** 125 W/Ft. ** 150 W/Ft. ** 188 W/Ft.	1	13
BDBSL05	2-5/8" x 4" x 5'	100 W/Ft. ** 125 W/Ft. 150 W/Ft. 188 W/Ft.	1	17
BDBSL06	2-5/8" x 4" x 6'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft.	1	20
BDBSL07	2-5/8" x 4" x 7'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft.	1	24
BDBSL08	2-5/8" x 4" x 8'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft.	1	27
BDBSL09	2-5/8" x 4" x 9'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft.	1	30
BDBSL10	2-5/8" x 4" x 10'	100 W/Ft. 125 W/Ft. 150 W/Ft. 188 W/Ft.	1	33

1. Cabinet available up to 12' length. Custom length cabinets are priced with heater and blank to the next larger size.
 2. Backs are provided standard with no finish. For finished backs, add 10% to List price.
 3. Knockouts on back omitted by request only.
 * Not available in 347V or 600V.
 ** Not available in 600V.
 ‡ Not available in 277V, 347V, or 600V.
 NOTE: All models are NON-STOCK made-to-order. When ordering, specify quantity, catalog number, voltage, wattage, optional controls, and color.
 Consult sales representative for lead times.

BLANK SECTIONS & ACCESSORIES (FOR MODEL SLDB DRAFT BARRIER CONVECTORS)		
CATALOG NUMBER (See Note 2)	DIMENSIONS (See Note 1) W x H x L	SHIP WT. (LBS.)
SLDBS1B	2-5/8" x 4" x 1'	4
SLDBS2B	2-5/8" x 4" x 2"	7
SLDBS3B	2-5/8" x 4" x 3'	9
SLDBS4B	2-5/8" x 4" x 4'	12
SLDBS5B	2-5/8" x 4" x 5'	16
SLDBS6B	2-5/8" x 4" x 6'	19
SLDBS7B	2-5/8" x 4" x 7'	22.5
SLDBS8B	2-5/8" x 4" x 8'	24
SLDBS9B	2-5/8" x 4" x 9'	27
SLDBS10B	2-5/8" x 4" x 10'	30

NOTE: Blank section grilles are not punched unless requested.

CATALOG NUMBER*	DESCRIPTION	ADDITIONAL WALL SPACE REQUIRED	SHIP WT. (LBS.)
SLDECL	End Cap - Left	1/8"	1
SLDECR	End Cap - Right		
SLDICB	Inside Corner-Bottom In	8 1/2"	5
SLDOCB	Outside Corner-Bottom In	5"	4
SLD135ICB	135° Inside Corner-Bot In	8 1/2"	5
SLD135OCB	135° Outside Corner-Bot In	5"	4
SLDSP	Splice Plate	0" - 1/4"	1
SLDFL3	Filler Section 3"	0" - 3"	1
SLDFL6	Filler Section 6"	3" - 6"	1
SLDFL9	Filler Section 9"	6" - 9"	1
SLDFL12	Filler Section 12"	9" - 12"	1
SLDFL18	Filler Section 18"	12" - 18"	1.5
SLDFL24	Filler Section 24"	18" - 24"	1.5
SLDDRB	Receptacle Section-Bot In (Must use 1 ft blank section)	12"	
SLDPK3A**	Architectural Pedestal	-	2
S01A	Stand-Off Bracket	-	1

N/A - Not Available.
 * Add suffix -P for painted, -C for clear anodized, -B for bronze anodized (excludes PK3S - Black only).
 ** One pedestal. Two required on units up to 10', three required on units over 10'.
 † Color Code: Place the following letter at the end of the catalog number for color selection for end caps and pedestals.
 A=Aluminum
 B=Black
 C=Clear Anodized
 G=Charcoal Grey
 K=Black Anodized
 M=Mill Finish
 N=Neutral Grey
 P=Navajo White
 S=Stat Bronze
 T=Desert Tan
 W=Northern White
 Z=Bronze Anodized

OPTIONAL BUILT-IN CONTROLS (FOR DRAFT BARRIER CONVECTORS)		
SUFFIX ADDITION TO BASIC CAT. NO.	OPTIONAL BUILT-IN CONTROLS	RATINGS
T	1-Pole Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range adjustable through outlet grille-tamper-resistant. (See Note B.) Not available on three-phase heaters.
DS	Power On / Off Switch	Double-pole, rated 20 amp @ 120-277 VAC. (See Note A.) For 3Ø heaters and 1Ø heaters over 20 amps specify two.

A. For 1Ø loads over 20A and all 3Ø loads, specify 2 power on / off switches.
 B. This control option is not available on single-phase heaters over 24 amps (22 amps on 277 VAC).

DECORATIVE SILL-HEIGHT CONVECTORS

CSL

APPLICATIONS:

Provide total or supplemental heating for offices, corridors, lobbies or similar facilities. Mounted under expanses of glass, they prevent cold down-drafts.

FEATURES:

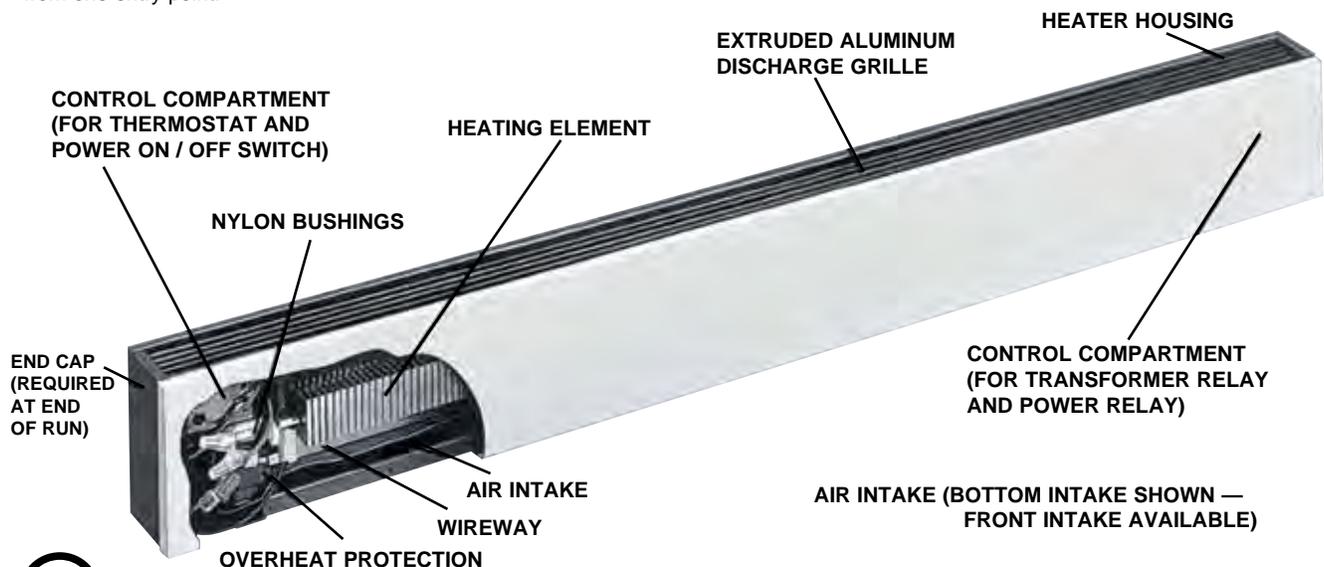
- With a broad range of heating capacities per foot length, 125 watts (426 BTU per hour) to 750 watts (2560 BTU per hour), these units can be run from wall-to-wall or they can be mounted as discrete units in lengths of 28-inches to ten feet. Locate them at sill height (or lower) or run them from mullion-to-mullion.
- Front inlet models mount flush with floor. 125 to 250 watts per foot units can be positioned within 1-3/4-inches to the floor; 375 to 750 watts per foot units can be positioned to within 3-inches of the floor. The 5-1/2-inch high sill-height convectors are only 3-inches in depth (front to back); the seven and fourteen-inch high models are on 5-inches in depth.
- Bottom Inlet-Top Outlet or Front Inlet-Top Outlet are available in a spectrum of muted architectural colors in baked enamel finishes which are compatible with all interior decors.
- Front cover is fabricated from 16-gauge steel (14-gauge optional). For service, all internal parts are accessible by removing cover. Top of front cover engages with grille supports; bottom of cover locks into place with concealed Phillips head screws.
- Depending on capacity required, each unit may contain one to three heating elements. Elements are long life metal sheath type, anchored to allow for quiet expansion and contraction.
- Thermal limit switch with linear type (full length) sensing bulb provides constant protection against overheating from any cause. The switch will automatically reset when normal operating temperatures are restored.
- Standard units are prewired. Units without optional controls are designed for either right hand or left hand entry for easy connection of supply wiring from bottom, rear or end, as well as multiple wiring of adjacent heaters from one entry point.



- Accessories include a complete line of matching blank sections, end caps, filler sections, inside and outside corners.
- Optional 1/4-inch mesh screen located beneath outlet grille available to deter insertion of foreign objects through grille.
- Optional built-in controls consist of line voltage thermostat (CSLAM or CSLAL): two-stage thermostat; power on / off switch; transformer relay; and power relay. (Refer to specification table for ratings.)

Note: CSLAS Models with 250 watt a linear foot or less, without wire mesh, are UL approved for residential use.

NOTE: These products are Made-to-order and cannot be returned.



Cat. No. CSL
Decorative Sill Height Convectors (5-1/2" Height, 3" Depth, One Element)

CATALOG NUMBER	LENGTH "L"	NOMINAL WATTS PER FT.	TOTAL HEATING CAPACITY		AMPERAGE						SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)
			TOTAL WATTS	BTU/ HR.	120V	208V	240V	277V	347V	600V		
CSLAS2125 CSLAS2188 CSLAS2250	28" (711mm)	125 188 250*	250 375 500	853 1280 1706	2.1 3.1 4.2	1.2 1.8 2.4	1.0 1.6 2.1	0.9 1.4 1.8	0.7 1.1 1.4	0.4 0.6 0.8	1	12
CSLAS3125 CSLAS3188 CSLAS3250	3' (914mm)	125 188 250*	375 546 750	1280 1925 2560	3.1 4.7 6.2	1.8 2.7 3.6	1.6 2.4 3.1	1.4 2.0 2.7	1.1 1.6 2.2	0.6 0.9 1.2	1	13
CSLAS4125 CSLAS4188 CSLAS4250	4' (1219mm)	125 188 250*	500 750 1000	1706 2560 3412	4.2 6.2 8.3	2.4 3.6 4.8	2.1 3.1 4.2	1.8 2.7 3.6	1.4 2.2 2.9	0.8 1.2 1.7	1	17
CSLAS5125 CSLAS5188 CSLAS5250	5' (1524mm)	125 188 250*	625 940 1250	2133 3208 4266	5.2 7.8 10.4	3.0 4.5 6.0	2.6 3.9 5.2	2.3 3.4 4.5	1.8 2.7 3.6	1.0 1.6 2.1	1	22
CSLAS6125 CSLAS6188 CSLAS6250	6' (1829mm)	125 188 250*	750 1125 1500	2560 3840 5120	6.2 9.4 12.5	3.6 5.4 7.2	3.1 4.7 6.3	2.7 4.1 5.4	2.2 3.2 4.3	1.2 1.9 2.5	1	26
CSLAS8125 CSLAS8188 CSLAS8250	8' (2438mm)	125 188 250*	1000 1500 2000	3412 5120 6824	- - -	4.8 7.2 9.6	4.2 6.3 8.3	3.6 5.4 7.2	2.8 4.3 5.8	1.7 2.5 3.3	1	35
CSLAS10125 CSLAS10188 CSLAS10250	10' (3048mm)	125 188 250*	1250 1875 2500	4266 6400 8532	- - -	6.0 9.0 12.0	5.2 7.8 10.4	4.5 6.8 9.0	3.6 5.4 7.2	2.1 3.1 4.2	1	43

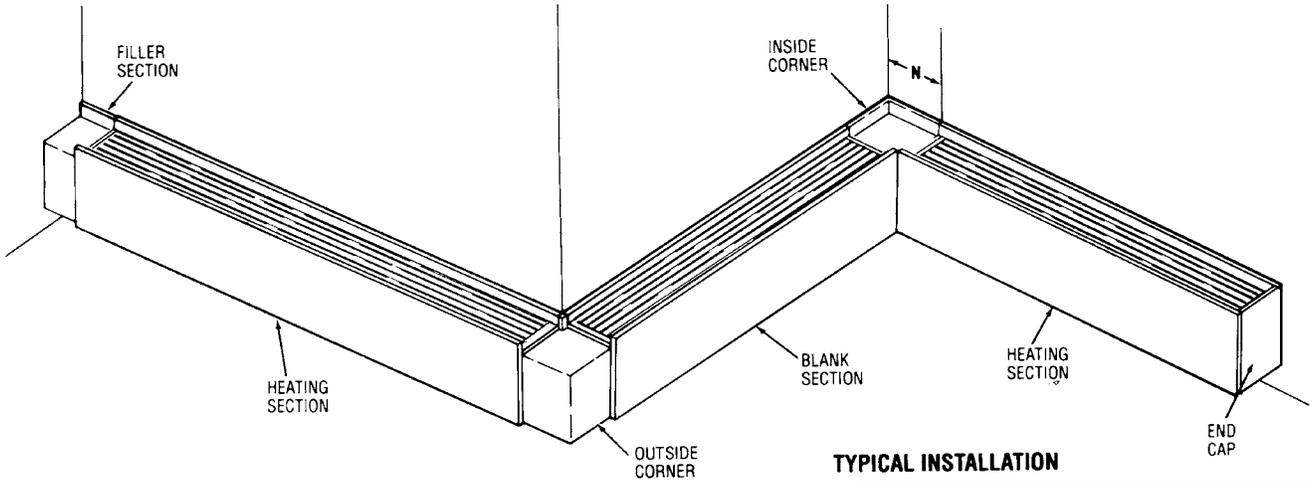
Cat. No. CSL
Decorative Sill Height Convectors (7" Height, 5" Depth)

CATALOG NUMBER	LENGTH "L"	NOMINAL WATTS PER FT.	TOTAL HEATING CAPACITY		AMPERAGE								SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)	
			TOTAL WATTS	BTU/ HR.	208V		240V		277V	347V		600V			
					10	30	10	30	10	10	10	30			
CSLAM2125 CSLAM2188 CSLAM2250	28" (711mm)	125 188 250	250 375 500	853 1280 1706	1.2 1.8 2.4	- - -	1.0 1.6 2.1	- - -	0.9 1.4 1.8	0.7 1.1 1.4	0.4 0.6 0.8	- - -	1	15	
CSLAM2375 CSLAM2500		375 500	750 1000	2560 3412	3.6 4.8	- -	3.1 4.2	- -	2.7 3.6	2.2 2.9	1.2 1.7	- -	2		
CSLAM2564 CSLAM2625 CSLAM2750		564 625 750	1125 1250 1500	3840 4266 5120	5.4 6.0 7.2	3.1 3.5 4.2	4.7 5.2 6.3	2.7 3.0 3.6	4.1 4.5 5.4	3.2 3.6 4.3	1.9 2.1 2.5	1.1 1.2 1.4	3		
CSLAM3125 CSLAM3188 CSLAM3250		125 188 250	375 564 750	1280 1925 2560	1.8 2.7 3.6	- - -	1.6 2.4 3.1	- - -	1.4 2.0 2.7	1.1 1.6 2.2	0.6 0.9 1.2	- - -	1		
CSLAM3375 CSLAM3500		375 500	1125 1500	3840 5120	5.4 7.2	- -	4.7 6.3	- -	4.1 5.4	3.2 4.3	1.9 2.5	- -	2		
CSLAM3564 CSLAM3625 CSLAM3750		564 625 750	1690 1875 2250	5768 6400 7680	8.1 9.0 10.8	4.7 5.2 6.3	7.0 7.8 9.4	4.1 4.5 5.4	6.1 6.8 8.1	4.8 5.4 6.5	2.8 3.1 3.7	1.6 1.8 2.1	3		
CSLAM4125 CSLAM4188 CSLAM4250	4' (1219mm)	125 188 250	500 750 1000	1706 2560 3412	2.4 3.6 4.8	- - -	2.1 3.1 4.2	- - -	1.8 2.7 3.6	1.4 2.2 2.9	0.8 1.2 1.7	- - -	1	26	
CSLAM4375 CSLAM4500		375 500	1500 2000	5120 6824	7.2 9.6	- -	6.3 8.3	- -	5.4 7.2	4.3 5.8	2.5 3.3	- -	2		
CSLAM4564 CSLAM4625 CSLAM4750		564 625 750	2250 2500 3000	7680 8532 10239	10.8 12.0 14.4	6.3 7.0 8.3	9.4 10.4 12.5	5.4 6.0 7.2	8.1 9.0 10.8	6.5 7.2 8.6	3.7 4.2 5.0	2.1 2.4 2.9	3		
CSLAM5125 CSLAM5188 CSLAM5250		125 188 250	624 940 1250	2133 3208 4266	3.0 4.5 6.0	- - -	2.6 3.9 5.2	- - -	2.3 3.4 4.5	1.8 2.7 3.6	1.0 1.6 2.1	- - -	1		
CSLAM5375 CSLAM5500		375 500	1875 2500	6400 8532	9.0 12.0	- -	7.8 10.4	- -	6.8 9.0	5.4 7.2	3.1 4.2	- -	2		
CSLAM5564 CSLAM5625 CSLAM5750		564 625 750	2820 3125 3750	9625 10665 12800	13.6 15.0 18.0	7.8 8.7 10.4	11.8 13.0 15.6	6.8 7.5 9.0	10.2 11.3 13.5	8.1 9.0 10.8	4.7 5.2 6.2	2.7 3.0 3.6	3		

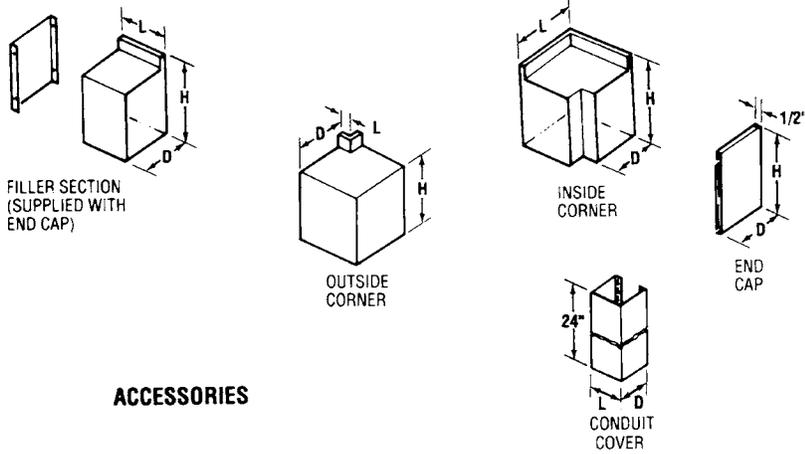
NOTE: All models are NON-STOCK made-to-order. When ordering, specify quantity, catalog number, voltage, wattage, optional controls, and color. Consult sales representative for lead times.

Available as front inlet or bottom inlet.
Optional controls on page 62.



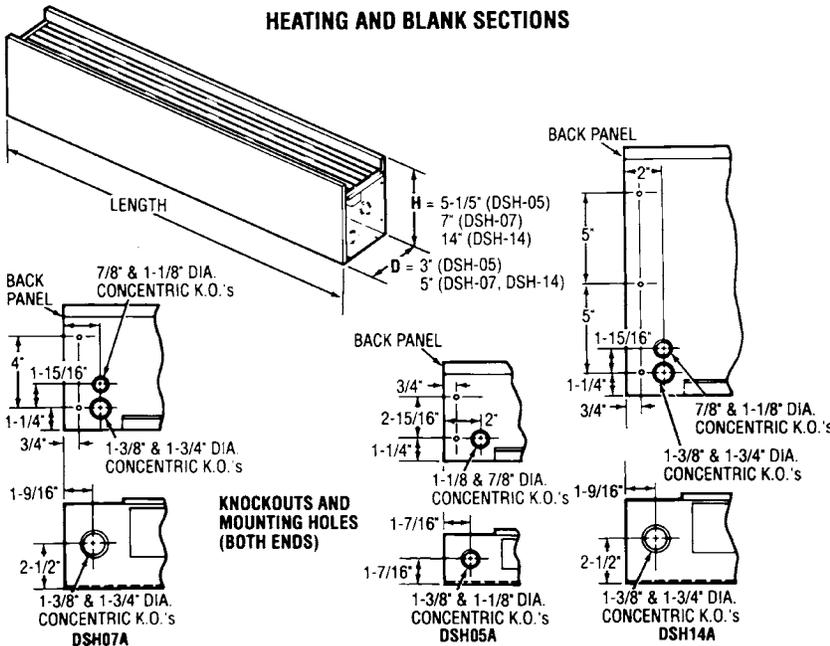


TYPICAL INSTALLATION



ACCESSORIES

HEATING AND BLANK SECTIONS



KNOCKOUTS AND MOUNTING HOLES (BOTH ENDS)

ACCESSORIES					
CATALOG NUMBER	USE W/CSL	DIMENSIONS (INCHES)			
		H	D	L	N*
LEFT END CAPS					
CSLASECL	05	5-1/2	2-1/2		
CSLAMECL	07	7	4-1/4	—	1/8
CSLALACL	14	14	4-1/4		
RIGHT END CAPS					
CSLASECR	05	5-1/2	2-1/2		
CSLAMECR	07	7	4-1/4	—	1/8
CSLALACR	14	14	4-1/4		
FILLER SECTIONS					
CSLASFL3	05	5-1/2	5-1/8		
CSLAMFL3	07	7	6-1/8	4	0-3
CSLALFL3	14	14	13-1/8		
CSLASFL6	05	5-1/8	2-1/2		
CSLAMFL6	07	6-1/8	4-1/2	7	3-6
CSLALFL6	14	13-1/8	4-1/2		
CSLASFL9	05	5-1/8	2-1/2		
CSLAMFL9	07	6-1/8	4-1/2	10	6-9
CSLALFL9	14	13-1/8	4-1/2		
CSLASFL12	05	5-1/8	2-1/2		
CSLAMFL12	07	6-1/8	4-1/2	13	9-12
CSLALFL12	14	13-1/8	4-1/2		
CSLASFL18	05	5-1/8	2-1/2		
CSLAMFL18	07	6-1/8	4-1/2	19	15-18
CSLALFL18	14	13-1/8	4-1/2		
INSIDE CORNERS					
CSLASIC*	05	5-1/8	2-1/2	4-1/2	3-3-1/2
CSLAMIC*	07	6-1/8	4-1/2	6	5-5-1/2
CSLALIC*	14	13-1/8	4-1/2	6	5-5-1/2
OUTSIDE CORNERS					
CSLASOC*	05	5-1/8	2-1/2	4-1/2	3-3-1/2
CSLAMOC*	07	6-1/8	4-1/2	6	5-5-1/2
CSLALOC*	14	13-1/8	4-1/2	6	5-5-1/2
CONDUIT CORNERS					
CSLASCC	05	—	2-5/8	2-1/2	—
CSLAMCC	07	—	—	—	—
STAND-OFF BRACKETS					
SO1	05	4-3/4	3/4	2-1/2	—
SO2	07	6-3/4	3/4	3	—
BLANK SECTIONS (CSLAS)					
CSLASBL2*				28	28
CSLASBL3*				36	36
CSLASBL4*				48	48
CSLASBL5*	05	5-1/2	3	60	60
CSLASBL6*				72	72
CSLASBL8*				96	96
SLASBL10*				120	120
BLANK SECTIONS (CSLAM)					
CSLAMBL2*				28	28
CSLAMBL3*				36	36
CSLAMBL4*				48	48
CSLAMBL5*	07	7	5	60	60
CSLAMBL6*				72	72
CSLAMBL8*				96	96
CSLAMBL10*				120	120
BLANK SECTIONS (CSLAL)					
CSLALBL2*				28	28
CSLALBL3*				36	36
CSLALBL4*				48	48
CSLALBL5*	14	14	5	60	60
CSLALBL6*				72	72
CSLALBL8*				96	96
CSLALBL10*				120	120

NOTES:
 1. If color is not specified, front covers will be neutral gray.
 2. When ordering, specify heater Catalog No., voltage, phase, suffix Catalog No. for built in controls, color and options.
 (*) - Add suffix 1 for bottom inlet, add 2 for front inlet.

Cat. No. CSL
Decorative Sill Height Convectors (7" Height, 5" Depth) (Con't.)

CATALOG NUMBER	LENGTH "L"	NOMINAL WATTS PER FT.	TOTAL HEATING CAPACITY		AMPERAGE								SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)
			TOTAL WATTS	BTU/ HR.	208V		240V		277V	347V	600V			
					10	30	10	30	10	10	10	30		
CSLAM6125	6 ft.	125	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-	1	39
CSLAM6188		188	1125	3840	5.4	-	4.7	-	4.1	3.2	1.9	-		
CSLAM6250		250	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-	2	
CSLAM6375		375	2250	7680	10.8	-	9.4	-	8.1	6.5	3.7	-		
CSLAM6500		500	3000	10,239	14.4	-	12.5	-	10.8	8.6	5.0	-	3	
CSLAM6564		564	3380	11,535	16.3	9.4	14.1	8.1	12.2	9.7	5.6	3.2		
CSLAM6625		625	3750	12,800	18.0	10.4	15.6	9.0	13.5	10.8	6.2	3.6		
CSLAM6750		750	4500	15,358	21.6	12.5	18.8	10.8	16.2	12.9	7.5	4.3		
CSLAM8125	8 ft.	125	1000	3412	4.8	-	4.2	-	3.6	2.9	1.7	-	1	52 lbs.
CSLAM8188		188	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-		
CSLAM8250		250	2000	6824	9.6	-	8.3	-	7.2	5.8	3.3	-	2	
CSLAM8375		375	3000	10,239	14.4	-	12.5	-	10.8	8.6	5.0	-		
CSLAM8500		500	4000	13,652	19.2	-	16.7	-	14.4	11.5	6.7	-	3	
CSLAM8564		564	4500	15,358	21.6	12.5	18.8	10.8	16.2	13.0	7.5	4.3		
CSLAM8625		625	5000	17,065	24.0	13.9	20.8	12.0	18.1	14.4	8.3	4.8		
CSLAM8750		750	6000	20,478	28.8	16.7	25.0	14.5	21.7	17.3	10.0	5.8		
CSLAM10125	10 ft.	125	1250	4266	6.0	-	5.2	-	4.5	3.6	2.1	-	1	65 lbs.
CSLAM10188		188	1875	6400	9.0	-	7.8	-	6.8	5.4	3.1	-		
CSLAM10250		250	2500	8532	12.0	-	10.4	-	9.0	7.2	4.2	-	2	
CSLAM10375		375	3750	12,800	18.0	-	15.6	-	13.5	10.8	6.2	-		
CSLAM10500		500	5000	17,065	24.0	-	20.8	-	18.1	14.4	8.3	-	3	
CSLAM10564		564	5640	19,250	27.1	15.7	23.5	13.6	20.4	16.2	9.4	5.4		
CSLAM10625		625	6250	21,330	30.0	17.4	26.0	15.0	22.6	18.0	10.4	6.0		
CSLAM10750		750	7500	25,600	36.1	20.8	31.3	18.1	27.1	21.6	12.5	7.2		

Cat. No. CSL
Decorative Sill Height Convectors (14" Height, 5" Depth)

CATALOG NUMBER	LENGTH "L"	NOMINAL WATTS PER FT.	TOTAL HEATING CAPACITY		AMPERAGE								SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)
			TOTAL WATTS	BTU/ HR.	208V		240V		277V	347V	600V			
					10	30	10	30	10	10	10	30		
CSLAL2125	28 in.	125	250	853	1.2	-	1.0	-	0.9	0.7	0.4	-	1	23
CSLAL2188		188	375	1280	1.8	-	1.6	-	1.4	1.1	0.6	-		
CSLAL2250		250	500	1706	2.4	-	2.1	-	1.8	1.4	0.8	-	2	
CSLAL2375		375	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-		
CSLAL2500		500	1000	3412	4.8	-	4.2	-	3.6	2.9	1.7	-	3	
CSLAL2564		564	1125	3840	5.4	3.1	4.7	2.7	4.1	3.2	1.9	1.1		
CSLAL2625		625	1250	4266	6.0	3.5	5.2	3.0	4.5	3.6	2.1	1.2		
CSLAL2750		750	1500	5120	7.2	4.2	6.3	3.6	5.4	4.3	2.5	1.4		
CSLAL3125	3 ft.	125	375	1280	1.8	-	1.6	-	1.4	1.1	0.6	-	1	30
CSLAL3188		188	564	1925	2.7	-	2.4	-	2.0	1.6	0.9	-		
CSLAL3250		250	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-	2	
CSLAL3375		375	1125	3840	5.4	-	4.7	-	4.1	3.2	1.9	-		
CSLAL3500		500	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-	3	
CSLAL3564		564	1690	5768	8.1	4.7	7.0	4.1	6.1	4.8	2.8	1.6		
CSLAL3625		625	1875	6400	9.0	5.2	7.8	4.5	6.8	5.4	3.1	1.8		
CSLAL3750		750	2250	7680	10.8	6.3	9.4	5.4	8.1	6.5	3.7	2.1		
CSLAL4125	4 ft.	125	500	1706	2.4	-	2.1	-	1.8	1.4	0.8	-	1	40
CSLAL4188		188	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-		
CSLAL4250		250	1000	3412	4.8	-	4.2	-	3.6	2.9	1.7	-	2	
CSLAL4375		375	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-		
CSLAL4500		500	2000	6824	9.6	-	8.3	-	7.2	5.8	3.3	-	3	
CSLAL4564		564	2250	7680	10.8	6.3	9.4	5.4	8.1	6.5	3.7	2.1		
CSLAL4625		625	2500	8532	12.0	7.0	10.4	6.0	9.0	7.2	4.2	2.4		
CSLAL4750		750	3000	10,239	14.4	8.3	12.5	7.2	10.8	8.6	5.0	2.9		
CSLAL5125	5 ft.	125	625	2133	3.0	-	2.6	-	2.3	1.8	1.0	-	1	50
CSLAL5188		188	940	3208	4.5	-	3.9	-	3.4	2.7	1.6	-		
CSLAL5250		250	1250	4266	6.0	-	5.2	-	4.5	3.6	2.1	-	2	
CSLAL5375		375	1875	6400	9.0	-	7.8	-	6.8	5.4	3.1	-		
CSLAL5500		500	2500	8532	12.0	-	10.4	-	9.0	7.2	4.2	-	3	
CSLAL5564		564	2820	9625	13.6	7.8	11.8	6.8	10.2	8.1	4.7	2.7		
CSLAL5625		625	3125	10,665	15.0	8.7	13.0	7.5	11.3	9.0	5.2	3.0		
CSLAL5750		750	3750	12,800	18.0	10.4	15.6	9.0	13.5	10.8	6.2	3.6		

Cat. No. CSL
Decorative Sill Height Convectors (14" Height, 5" Depth) (Con't.)

CATALOG NUMBER	LENGTH "L"	NOMINAL WATTS PER FT.	TOTAL HEATING CAPACITY		AMPERAGE								SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)
			TOTAL WATTS	BTU/HR.	208V		240V		277V	347V	600V			
					10	30	10	30	10	10	10	30		
CSLAL6125	6 ft.	125	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-	1	60
CSLAL6188		188	1125	3840	5.4	-	4.7	-	4.1	3.2	1.9	-		
CSLAL6250		250	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-		
CSLAL6375		375	2250	7680	10.8	-	9.4	-	8.1	6.5	3.7	-		
CSLAL6500		500	3000	10,239	14.4	-	12.5	-	10.8	8.6	5.0	-		
CSLAL6564		564	3380	11,535	16.3	9.4	14.1	8.1	12.2	9.7	5.6	3.2		
CSLAL6625	6 ft.	625	3750	12,800	18.0	10.4	15.6	9.0	13.5	10.8	6.2	3.6	3	60
CSLAL6750		750	4500	15,358	21.6	12.5	18.8	10.8	16.2	12.9	7.5	4.3		
CSLAL8125		125	1000	3412	4.8	-	4.2	-	3.6	2.9	1.7	-		
CSLAL8188	8 ft.	188	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-	1	80
CSLAL8250		250	2000	6824	9.6	-	8.3	-	7.2	5.8	3.3	-		
CSLAL8375		375	3000	10,239	14.4	-	12.5	-	10.8	8.6	5.0	-		
CSLAL8500		500	4000	13,652	19.2	-	16.7	-	14.4	11.5	6.7	-		
CSLAL8564		564	4500	15,358	21.6	12.5	18.8	10.8	16.2	13.0	7.5	4.3		
CSLAL8625		625	5000	17,065	24.0	13.9	20.8	12.0	18.1	14.4	8.3	4.8		
CSLAL8750	750	6000	20,478	28.8	16.7	25.0	14.5	21.7	17.3	10.0	5.8			
CSLAL10125	10 ft.	125	1250	4266	6.0	-	5.2	-	4.5	3.6	2.1	-	1	100
CSLAL10188		188	1875	6400	9.0	-	7.8	-	6.8	5.4	3.1	-		
CSLAL10250		250	2500	8532	12.0	-	10.4	-	9.0	7.2	4.2	-		
CSLAL10375		375	3750	12,800	18.0	-	15.6	-	13.5	10.8	6.2	-		
CSLAL10500		500	5000	17,065	24.0	-	20.8	-	18.1	14.4	8.3	-		
CSLAL10564		564	5640	19,250	27.1	15.7	23.5	13.6	20.4	16.2	9.4	5.4		
CSLAL10625	10 ft.	625	6250	21,330	30.0	17.4	26.0	15.0	22.6	18.0	10.4	6.0	3	100
CSLAL10750		750	7500	25,600	36.1	20.8	31.3	18.1	27.1	21.6	12.5	7.2		

DECORATIVE SILL HEIGHT CONVECTOR ACCESSORIES

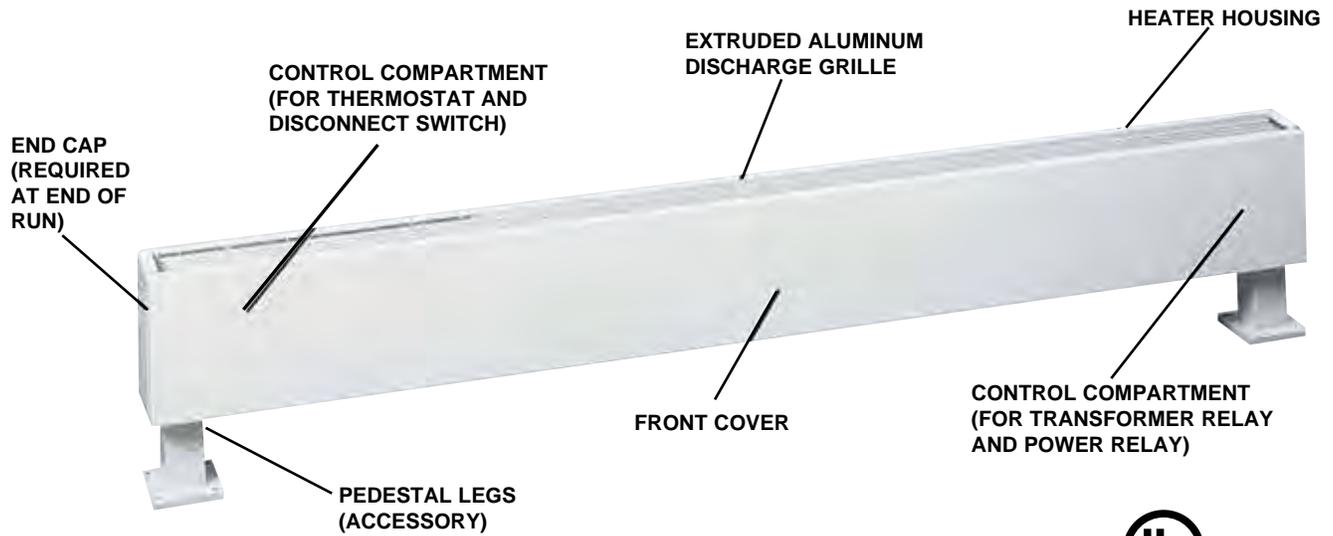
DESCRIPTION	CATALOG NUMBER	USE WITH	SHIP WT. (LBS.)	DESCRIPTION	CATALOG NUMBER	USE WITH	SHIP WT. (LBS.)
Left End Caps	CSLASECL	CSLAS	1	CSLAS BLANK SECTIONS:			
	CSLAMECL	CSLAM	1	28-Inch	CSLAS-BL2*		10
	CSLALECL	CSLAL	1	3-Foot	CSLASBL3*		13
Right End Caps	CSLASECR	CSLAS	1	4-Foot	CSLASBL4*		17
	CSLAMECR	CSLAM	1	5-Foot	CSLASBL5*	CSLAS	21
	CSLALECR	CSLAL	1	6-Foot	CSLASBL6*		25
FILLER SECTIONS				8-Foot	CSLASBL8*		32
3-Inch	CSLASFL3	CSLAS	1	10-Foot	CSLASBL10*		42
	CSLAMFL3	CSLAM	2	CSLAM BLANK SECTIONS:			
	CSLALFL3	CSLAL	3	28-Inch	CSLAMBL2*		14
6-Inch	CSLASFL6	CSLAS	2	3-Foot	CSLAMBL3*		18
	CSLAMFL6	CSLAM	3	4-Foot	CSLAMBL4*		24
	CSLALFL6	CSLAL	5	5-Foot	CSLAMBL5*	CSLAM	30
9-Inch	CSLASFL9	CSLAS	3	6-Foot	CSLAMBL6*		36
	CSLAMFL9	CSLAM	4	8-Foot	CSLAMBL8*		48
	CSLALFL9	CSLAL	6	10-Foot	CSLAMBL10*		60
12-Inch	CSLASFL12	CSLAS	4	CSLAL BLANK SECTIONS:			
	CSLAMFL12	CSLAM	5	28-Inch	CSLALBL2*		22
	CSLALFL12	CSLAL	8	3-Foot	CSLALBL3*		29
18-Inch	CSLASFL18	CSLAS	5	4-Foot	CSLALBL4*		38
	CSLAMFL18	CSLAM	6	5-Foot	CSLALBL5*	CSLAL	48
	CSLALFL18	CSLAL	9	6-Foot	CSLALBL6*		57
Inside Corners	CSLASIC*	CSLAS	2	8-Foot	CSLALBL8*		76
	CSLAMIC*	CSLAM	4	10-Foot	CSLALBL10*		95
	CSLALIC*	CSLAL	6	Stand-Off	SO1	CSLAS	1
Outside Corners	CSLASOC*	CSLAS	1	Bracket	SO2	CSLAM	
	CSLAMOC*	CSLAM	2				
	CSLALOC*	CSLAL	4				
Conduit Covers	CSLASCC	CSLAS	4				
	CSLAMCC	CSLAM, CSLAL	5				

NOTES:
 1. If color is not specified, front covers will be neutral grey.
 2. When ordering, specify heater Catalog No., voltage, phase, suffix Catalog No. for built-in controls, color, and options.

* Suffix 1 is for Bottom Inlet and Suffix 2 is for Front Inlet.

OPTIONS
 Controls--Built-in: see page 62.
 Control Section: see page 62.
 Outlet Mesh--Price per ft.
 14-Gauge Front Cover-add 10% to heater price
 Standard color included in base price.
 Other colors available. See paint policy; page 37.
 Receptacles in end caps and filler sections see page 62.

CPL



NOTE: These products are Made-to-order and cannot be returned.

APPLICATIONS:

CPL Series units are ideal for high traffic areas with high heat needs where wall mounted units are not appropriate such as air, rail or bus terminals, corridors, lobbies, foyers, auditoriums, etc. These are not intended for residential applications. They can be mounted singly, in lengths from 28 inches to 10 feet, or joined end-to-end for complete perimeter heating. They are ruggedly built to withstand years of hard usage in public and commercial buildings.

FEATURES:

Variable Heat Output - Depending on the requirements of the space being heated, the CPL units may contain one to three heating elements that yield a broad range of heating capacity from 125 watts per foot (426 BTU per hour per foot) to 750 watts per foot (2560 BTU per hour per foot).

Rugged Construction - The front cover is constructed of 16 gauge steel with 14 gauge being optional. Also available is optional 1/4-inch mesh located under the discharge grille to deter the insertion of objects into the unit.

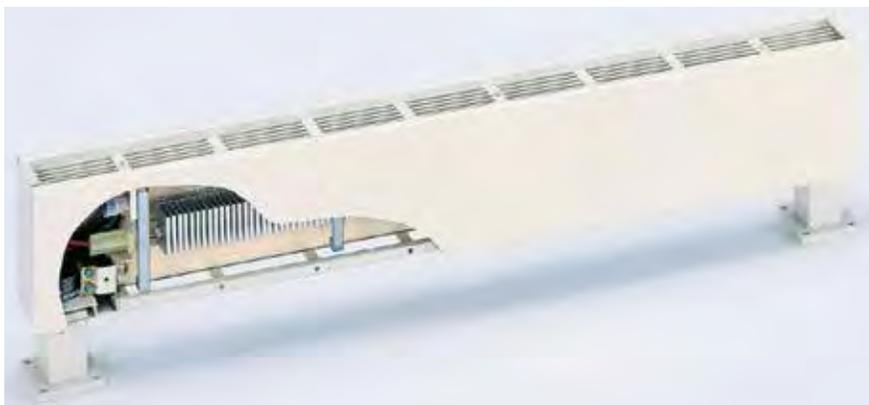
Multiple Cabinet Sizes - The CPL is available in two cabinet sizes. This provides heating flexibility as well as styling flexibility.

Pre-wired Junction Boxes - Each unit has identical pre-wired junction boxes at either end of the unit to permit power supply entry and connection flexibility. Each unit has a wireway with factory installed wiring rated 35 amps for the CPLAS and 45 amps for the CPLAM, eliminating the need to fish additional wires for multiple unit hook-up.

Optional Controls - Each unit has available a selection of optional built-in controls that include a single pole or double pole line voltage thermostat, power on / off switch, power relay, or transformer relay.

Accessories - A full line of accessories is designed for the CSL Series is filed adaptable for the CPL Series unit. This includes filler sections and corner sections. End caps are required to close off the junction box on all installations where the end of the unit does not mate with another unit.

Finishes - Eight standard painted colors plus grey primer are available. Custom color matching is also available for a nominal color matching charge.



Cat. No. CSL
Decorative Sill Height Convectors (14" Height, 5" Depth) (Con't.)

CATALOG NUMBER	LENGTH "L"	NOMINAL WATTS PER FT.	TOTAL HEATING CAPACITY		AMPERAGE								SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)			
			TOTAL WATTS	BTU/HR.	208V		240V		277V	347V	600V						
					10	30	10	30	10	10	10	30					
5" H x 3" D																	
CSLAL6125	6 ft.	125	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-	1	60			
CSLAL6188		188	1125	3840	5.4	-	4.7	-	4.1	3.2	1.9	-					
CSLAL6250		250	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-					
CSLAL6375		60	375	2250	7680	10.8	-	9.4	-	8.1	6.5	3.7	-		2		
CSLAL6500			500	3000	10,239	14.4	-	12.5	-	10.8	8.6	5.0	-				
CSLAL6564			564	3380	11,535	16.3	9.4	14.1	8.1	12.2	9.7	5.6	3.2				
CSLAL6625		3	625	3750	12,800	18.0	10.4	15.6	9.0	13.5	10.8	6.2	3.6		3		
CSLAL6750			750	4500	15,358	21.6	12.5	18.8	10.8	16.2	12.9	7.5	4.3				
CSLAL8125			125	1000	3412	4.8	-	4.2	-	3.6	2.9	1.7	-				
CSLAL8188	8 ft.	188	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-	1	80			
CSLAL8250		250	2000	6824	9.6	-	8.3	-	7.2	5.8	3.3	-					
CSLAL8375		375	3000	10,239	14.4	-	12.5	-	10.8	8.6	5.0	-					
CSLAL8500		80	500	4000	13,652	19.2	-	16.7	-	14.4	11.5	6.7	-		2		
CSLAL8564			564	4500	15,358	21.6	12.5	18.8	10.8	16.2	13.0	7.5	4.3				
CSLAL8625			625	5000	17,065	24.0	13.9	20.8	12.0	18.1	14.4	8.3	4.8				
CSLAL8750		750	6000	20,478	28.8	16.7	25.0	14.5	21.7	17.3	10.0	5.8	3				
CSLAL10125		10 ft.	125	1250	4266	6.0	-	5.2	-	4.5	3.6	2.1			-	1	100
CSLAL10188			188	1875	6400	9.0	-	7.8	-	6.8	5.4	3.1			-		
CSLAL10250	250		2500	8532	12.0	-	10.4	-	9.0	7.2	4.2	-					
CSLAL10375	100		375	3750	12,800	18.0	-	15.6	-	13.5	10.8	6.2	-	2			
CSLAL10500			500	5000	17,065	24.0	-	20.8	-	18.1	14.4	8.3	-				
CSLAL10564			564	5640	19,250	27.1	15.7	23.5	13.6	20.4	16.2	9.4	5.4				
CSLAL10625	3		625	6250	21,330	30.0	17.4	26.0	15.0	22.6	18.0	10.4	6.0	3			
CSLAL10750			750	7500	25,600	36.1	20.8	31.3	18.1	27.1	21.6	12.5	7.2				

CATALOG NUMBER	LENGTH "L"	NOMINAL WATTS PER FT.	TOTAL HEATING CAPACITY		AMPERAGE								SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)			
			TOTAL WATTS	BTU/HR.	208V		240V		277V	347V	600V						
					10	30	10	30	10	10	10	30					
7" H x 5" D																	
CPLAM2125	28 in.	125	250	853	1.2	-	1.0	-	0.9	0.7	0.4	-	1	18			
CPLAM2188		188	375	1280	1.8	-	1.6	-	1.4	1.1	0.6	-					
CPLAM2250		250	500	1706	2.4	-	2.1	-	1.8	1.4	0.8	-					
CPLAM2375		18	375	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-		2		
CPLAM2500			500	1000	3412	4.8	-	4.2	-	3.6	2.9	1.7	-				
CPLAM2564			564	1125	3840	5.4	3.1	4.7	2.7	4.1	3.2	1.9	1.1				
CPLAM2625		3	625	1250	4266	6.0	3.5	5.2	3.0	4.5	3.6	2.1	1.2		3		
CPLAM2750			750	1500	5120	7.2	4.2	6.3	3.6	5.4	4.3	2.5	1.4				
CPLAM3125			125	375	1280	1.8	-	1.6	-	1.4	1.1	0.6	-				
CPLAM3188	3 ft.	188	564	1925	2.7	-	2.4	-	2.0	1.6	0.9	-	1	22			
CPLAM3250		250	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-					
CPLAM3375		375	1125	3840	5.4	-	4.7	-	4.1	3.2	1.9	-					
CPLAM3500		22	500	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-		2		
CPLAM3564			564	1690	5768	8.1	4.7	7.0	4.1	6.1	4.8	2.8	1.6				
CPLAM3625			625	1875	6400	9.0	5.2	7.8	4.5	6.8	5.4	3.1	1.8				
CPLAM3750		750	2250	7680	10.8	6.3	9.4	5.4	8.1	6.5	3.7	2.1	3				
CPLAM4125		4 ft.	125	500	1706	2.4	-	2.1	-	1.8	1.4	0.8			-	1	29
CPLAM4188			188	750	2560	3.6	-	3.1	-	2.7	2.2	1.2			-		
CPLAM4250	250		1000	3412	4.8	-	4.2	-	3.6	2.9	1.7	-					
CPLAM4375	29		375	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-	2			
CPLAM4500			500	2000	6824	9.6	-	8.3	-	7.2	5.8	3.3	-				
CPLAM4564			564	2250	7680	10.8	6.3	9.4	5.4	8.1	6.5	3.7	2.1				
CPLAM4625	3		625	2500	8532	12.0	7.0	10.4	6.0	9.0	7.2	4.2	2.4	3			
CPLAM4750			750	3000	10,239	14.4	8.3	12.5	7.2	10.8	8.6	5.0	2.9				
CPLAM5125			5 ft.	125	625	2133	3.0	-	2.6	-	2.3	1.8	1.0		-	1	
CPLAM5188	188	940		3208	4.5	-	3.9	-	3.4	2.7	1.6	-					
CPLAM5250	250	1250		4266	6.0	-	5.2	-	4.5	3.6	2.1	-					
CPLAM5375	37	375		1875	6400	9.0	-	7.8	-	6.8	5.4	3.1	-	2			
CPLAM5500		500		2500	8532	12.0	-	10.4	-	9.0	7.2	4.2	-				
CPLAM5564		564		2820	9625	13.6	7.8	11.8	6.8	10.2	8.1	4.7	2.7				
CPLAM5625	3	625		3125	10,665	15.0	8.7	13.0	7.5	11.3	9.0	5.2	3.0	3			
CPLAM5750		750		3750	12,800	18.0	10.4	15.6	9.0	13.5	10.8	6.2	3.6				

Pedestal Leg Kits priced separately under CPL Commercial Pedestal Convector Accessories. See page 57.

NOTE: All models are NON-STOCK made-to-order. When ordering, specify quantity, catalog number, voltage, wattage, optional controls, and color. Consult sales representative for lead times.



DECORATIVE & COMMERCIAL PEDESTAL HEATERS

CPL

CATALOG NUMBER	LENGTH "L"	NOMINAL WATTS PER FT.	TOTAL HEATING CAPACITY		AMPERAGE								SHIP NO. OF ELEMENTS	SHIP WT. (LBS.)	
			TOTAL WATTS	BTU/ HR.	208V		240V		277V	347V	600V				
					10	30	10	30	10	10	10	30			
7" H x 5" D (Cont.)															
CPLAM6125	6 ft.	125	750	2560	3.6	-	3.1	-	2.7	2.2	1.2	-	1	44	
CPLAM6188		188	1125	3840	5.4	-	4.7	-	4.1	3.2	1.9	-			
CPLAM6250		250	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-			
CPLAM6375		6 ft.	375	2250	7680	10.8	-	9.4	-	8.1	6.5	3.7	-		2
CPLAM6500			500	3000	10,239	14.4	-	12.5	-	10.8	8.6	5.0	-		
CPLAM6564			564	3380	11,535	16.3	9.4	14.1	8.1	12.2	9.7	5.6	3.2		
CPLAM6625		6 ft.	625	3750	12,800	18.0	10.4	15.6	9.0	13.5	10.8	6.2	3.6		3
CPLAM6750			750	4500	15,358	21.6	12.5	18.8	10.8	16.2	12.9	7.5	4.3		
CPLAM8125			125	1000	3412	4.8	-	4.2	-	3.6	2.9	1.7	-		
CPLAM8188	8 ft.	188	1500	5120	7.2	-	6.3	-	5.4	4.3	2.5	-	1	58	
CPLAM8250		250	2000	6824	9.6	-	8.3	-	7.2	5.8	3.3	-			
CPLAM8375		375	3000	10,239	14.4	-	12.5	-	10.8	8.6	5.0	-			
CPLAM8500		8 ft.	500	4000	13,652	19.2	-	16.7	-	14.4	11.5	6.7	-		2
CPLAM8564			564	4500	15,358	21.6	12.5	18.8	10.8	16.2	13.0	7.5	4.3		
CPLAM8625			625	5000	17,065	24.0	13.9	20.8	12.0	18.1	14.4	8.3	4.8		
CPLAM8750		8 ft.	750	6000	20,478	28.8	16.7	25.0	14.5	21.7	17.3	10.0	5.8		3
CPLAM10125			125	1250	4266	6.0	-	5.2	-	4.5	3.6	2.1	-		
CPLAM10188			188	1875	6400	9.0	-	7.8	-	6.8	5.4	3.1	-		
CPLAM10250	10 ft.	250	2500	8532	12.0	-	10.4	-	9.0	7.2	4.2	-	1	72.	
CPLAM10375		375	3750	12,800	18.0	-	15.6	-	13.5	10.8	6.2	-			
CPLAM10500		500	5000	17,065	24.0	-	20.8	-	18.1	14.4	8.3	-			
CPLAM10564		10 ft.	564	5640	19,250	27.1	15.7	23.5	13.6	20.4	16.2	9.4	5.4		2
CPLAM10625			625	6250	21,330	30.0	17.4	26.0	15.0	22.6	18.0	10.4	6.0		
CPLAM10750			750	7500	25,600	36.1	20.8	31.3	18.1	27.1	21.6	12.5	7.2		

CPL COMMERCIAL PEDESTAL CONVECTOR ACCESSORIES

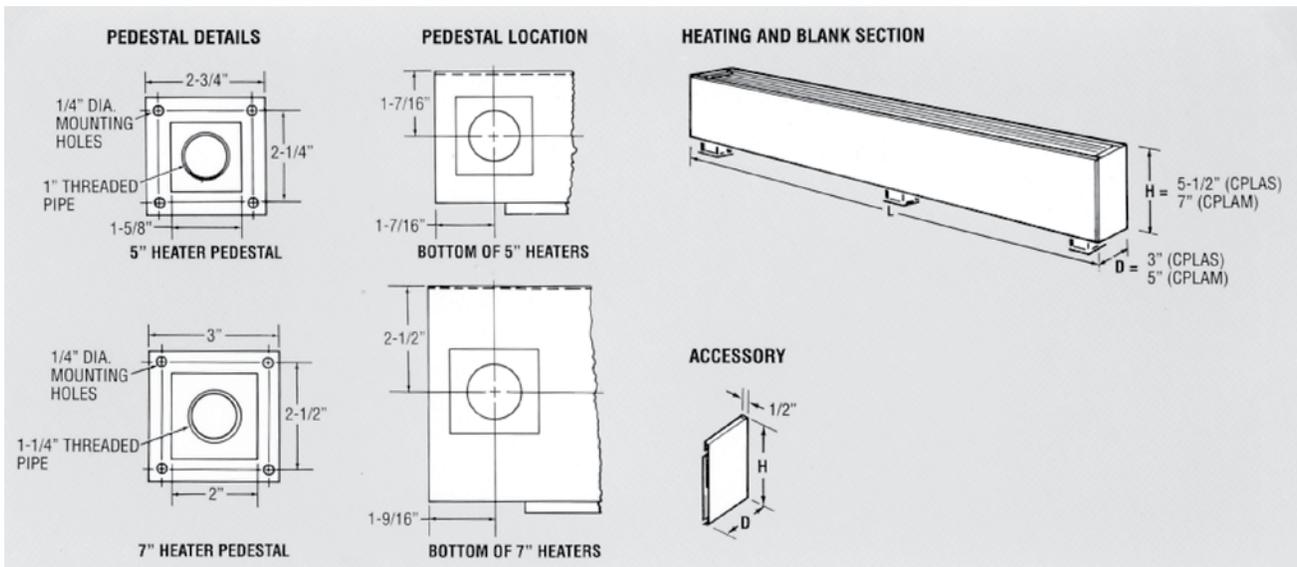
CATALOG NUMBER	DESCRIPTION	USE WITH	SHIP WT. (LBS.)
CPLASBL21	28-Inch Blank Section	CPLASA Heaters	10
CPLASBL31	3-Foot Blank Section		13
CPLASBL41	4-Foot Blank Section		17
CPLASBL51	5 Foot Blank Section		21
CPLASBL61	6-Foot Blank Section	CPLASA Heaters	25
CPLASBL81	8-Foot Blank Section		32
CPLASBL101	10-Foot Blank Section		42
CPLAM BL21	28-Inch Blank Section	CPLAM Heaters	14
CPLAM BL31	3-Foot Blank Section		18
CPLAM BL41	4-Foot Blank Section		24
CPLAM BL51	5 Foot Blank Section		30
CPLAM BL61	6-Foot Blank Section	CPLAM Heaters	36
CPLAM BL81	8-Foot Blank Section		48
CPLAM BL101	10-Foot Blank Section		60
CPLASPD2	Pedestal Leg Kit for 2, 3 & 4 ft. units	Legs MUST be ordered with CPLASA Heaters/Blanks	3
CPLASPD3	Pedestal Leg Kit for 5, 6 & 8 ft. units		4
CPLASPD4	Pedestal Leg Kit for 10 ft. unit		5
CPLAMPD2	Pedestal Leg Kit for 2, 3 & 4 ft. units	Legs MUST be ordered with CPLAM Heaters/Blanks	4
CPLAMPD3	Pedestal Leg Kit for 5, 6 & 8 ft. units		5
CPLAMPD4	Pedestal Leg Kit for 10 ft. unit		7
CPLASECR	Right Hand End Cap	CPLAS/CPLAM Heaters/Blanks	1
CPLAMECR	Right Hand End Cap		
CPLASECL	Left Hand End Cap	CPLAS/CPLAM Heaters/Blanks	1
CPLAMECL	Left Hand End Cap		

NOTES:

- If color is not specified, front covers will be neutral grey. Back, grille, and accessories will be statuary bronze.
- When ordering, specify heater Catalog No., voltage, phase, suffix Catalog No. for built-in controls, color, and options.
- Specify color for pedestal legs.

OPTIONS

- Controls—Built-in: see page 62.
- Outlet Mesh—Price per ft.
14-Gauge Front Cover—add 10% to heater price.
Standard color included in base price.
Other colors available. See paint policy; page 37.
Receptacles in end caps; see page 62.

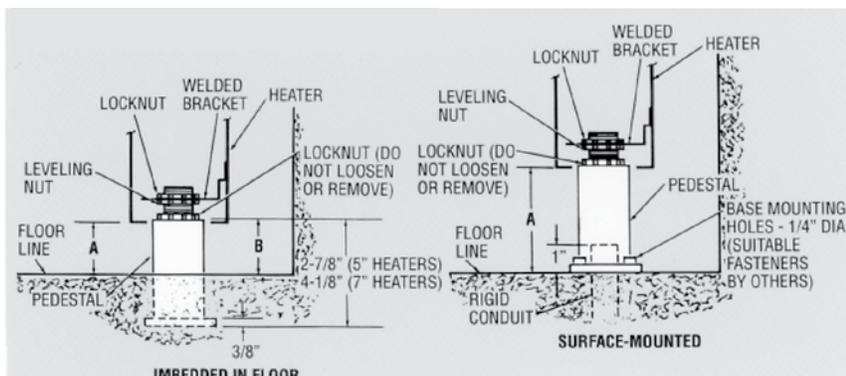


Heater Capacity (Watt/Ft. Heater Length)	Heater Dimension "A" (Minimum Mounting Height Above Floor)	Pedestal Dimension "B" (Minimum Height Above Floor)
125, 188 and 250 Watts/Ft	Watts/Ft. 1-3/4"	2"
375, 500, 564, 625 and 750	3"	3-1/4"

Heater Catalog Number	Height Above Floor (Dim. "A")	
	Min.	Max.
CPLAS	2-5/8"	3-3/8"
CPLAS	3-7/8"	4-5/8"

ACCESSORIES					
CATALOG NUMBER	USE WITH	DIMENSIONS (INCHES)			
		H	D	L	X*
LEFT END CAPS					
CSLASECL**	CSLAS	5-1/2	2-1/2	—	1/8
CSLAMECL**	CSLAM	7	4-1/4	—	1/8
RIGHT END CAPS					
CSLASECR**	CSLAS	5-1/2	2-1/2	—	1/8
CSLAMECR**	CSLAM	7	4-1/4	—	1/8
PEDESTAL LEGS (FOR USE WITH CPLAS UNITS)					
CPLASPD2	2', 3' and 4' Heaters and Blank Sections				
CPLASPD3	5', 6' and 8' Heaters and Blank Sections				
CSLASPD4	10' Heaters and Blank Sections				
PEDESTAL LEGS (FOR USE WITH CPLAM UNITS)					
CPLAMPD2	2', 3' and 4' Heaters and Blank Sections				
CPLAMPD3	5', 6' and 8' Heaters and Blank Sections				
CPLAMPD4	10' Heaters and Blank Sections				
BLANK SECTIONS					
CPLASBL2	CPLAS	5-1/2	3	28	28
CPLASBL3	CPLAS	5-1/2	3	36	36
CPLASBL4	CPLAS	5-1/2	3	48	48
CPLASBL5	CPLAS	5-1/2	3	60	60
CPLASBL6	CPLAS	5-1/2	3	72	72
CPLASBL8	CPLAS	5-1/2	3	96	96
CPLASBL10	CPLAS	5-1/2	3	120	120
CPLAMBL2	CPLAM	7	5	28	28
CPLAMBL3	CPLAM	7	5	36	36
CPLAMBL4	CPLAM	7	5	48	48
CPLAMBL5	CPLAM	7	5	60	60
CPLAMBL6	CPLAM	7	5	72	72
CPLAMBL8	CPLAM	7	5	96	96
CPLAMBL10	CPLAM	7	5	120	120

* X is the additional length the accessory adds to the total installation.
** Built-in duplex receptacle available. (See below.)



CONTROL SECTIONS FOR CONVECTORS

Two types of control sections are available; a relay control section, Circuit Breakers, Thermostat, Pilot Duty Disconnect Switch, P.E. Switch, or Control Transformer. An SCR Control Section which may have Master and Slave SCR's with an SCR type thermostat. Control sections are 28 inches long and available in 7-inch high and 14-inch high models plus the ASL3. To develop a complete catalog number, first start with the catalog number of the selected Blank Control Section. Example: CSLAMBCS1, then add slash marks to separate the catalog numbers that describe the individual controls desired. Example: CSLAMBCS1/M260/1CB3P60/PE. This catalog number would be for a 5-inch deep, 7-inch high commercial type control section with two 48 amp Mercury Relays, one 3-pole 60 amp Circuit Breakers with the unit controlled by a P.E. Switch. Also specify finish, heater voltage, phase 1 or 3, and control voltage.

BLANK CONTROL SECTION (SEE NOTE 1)	
CATALOG NUMBER	DESCRIPTION
ASL3BCSF ASL3BCSB	Control Section, Front Inlet, 3 5/8" x 6" x 28" long Control Section, Bottom Inlet, 3 5/8" x 6" x 28" long
ASL5BCSF ASL5BCSB	Control Section, Front Inlet, 5 3/8" x 7" x 28" long Control Section, Bottom Inlet, 5 3/8" x 7" x 28" long
CSLAMBCS1 CSLAMBCS2	Commercial Style, 7" High Bottom Inlet Commercial Style, 7" High Front Inlet
CSLALBCS1 CSLALBCS2	Commercial Style, 14" High Bottom Inlet Commercial Style, 14" High Front Inlet
CIRCUIT BREAKERS (SEE NOTE 3)	
1CB2P30 1CB2P60	1-Three Pole Circuit Breaker Rated 30 Amps @ 208, 240, 277 VAC 1-Two Pole Circuit Breaker Rated 60 Amps @ 208, 240, 277 VAC
1CB3P30 1CB3P60	1-Three Pole Circuit Breaker Rated 30 Amps @ 208, 240, 277 VAC 1-Three Pole Circuit Breaker Rated 60 Amps @ 208, 240, 277 VAC
2CB2P30 2CB2P60	2-Two Pole Circuit Breaker Rated 30 Amps @ 208, 240, 277 VAC 2-Two Pole Circuit Breaker Rated 60 Amps @ 208, 240, 277 VAC
2CB3P30 2CB3P60	2-Three Pole Circuit Breaker Rated 30 Amps @ 208, 240, 277 VAC 2-Three Pole Circuit Breaker Rated 60 Amps @ 208, 240, 277 VAC

HOW TO ORDER

When ordering, specify the following:

- BASE HEATER — Specify model number (which denotes heater height, length and watts/ft.) and the following:
 - Heater voltage and phase.
 - Optional controls (also indicate coil voltage when specifying power relay). Add suffix letters shown above to basic Model No.
 - Optional protective outlet mesh. Add suffix "-M" to Model No.
 - Finish.
- END CAPS — Specify model number (which denotes size and either left or right hand fit) and specify finish.
- SPLICE PLATE KIT — Specify model number (which denotes size) and specify finish.

CONTROL TRANSFORMER, 50 VA RATING (SEE NOTE 3)	
CATALOG NUMBER	DESCRIPTION
TR24	Low Voltage Transformer, 24V Secondary
PNEUMATIC CONTROL	
PE	Pneumatic Operated Electric Switch—SPDT switch rated 16A @ 120 VAC, 9A @ 208 VAC, 8A @ 240 VAC, 7A @ 277 VAC, pilot duty 125 VA @ 24-277 VAC, pressure 0 - 20 psig
THERMOSTAT & RECEPTACLE	
1PDT	Single Pole Pilot Duty Thermostat, 60° to 120°F Temperature Range—125 VA Rating
2PDT	Two Stage Pilot Duty Thermostat, 60° to 120°F Temperature Range—125 VA Rating. Available on 2- or 3-element, single phase heaters only
2ST	2-Stage Thermostat 60-120°F temperature range, adjustable through outlet grille-tamper-resistant. Available on 2- or 3-element, single phase heaters only
** R	120V Receptacle Duplex receptacle, 120V/20A, mounting in left or right end cap of 6, 9, 12 or 18-inch filler sections only.
POWER ON / OFF SWITCH	
DS	Pilot Duty Power On / Off Switch—Double Pole (Disconnects relay holding coil circuit)
SCR CONTROLS	
M90525A	Master SCR Control Rated 25 Amps @ 120 - 480V AC. Master units accept 0 -10V DC, 4-20mA, or 135 ohm proportional control inputs
M90548A	Master SCR Control Rated 48 Amps @ 120 - 480V AC
M90548A-2	Master SCR Control Rated 48 Amps @ 120 - 480V AC
SCR SLAVE CONTROLLER	
S90525A	SCR Slave unit controller. Rated 25 Amps.
S90548A	SCR Slave unit controller. Rated 48 Amps
SCR THERMOSTAT	
T90613V	Provides a proportional 2-10 VDC output for controlling 0-100% of the connected load to each Master*3

NOTES:

- Each SCR incorporates its own zero-firing logic, providing any combination or connection arrangement for single or three phase applications.
- 25A single phase SCR can be mounted in the ASL aluminum convector.
- A Maximum of 8 SCR's is the limit for one thermostat output signal, regardless.
- Each Master and Thermostat will require 24V AC Transformer.

** - For use with CSL and CPL end caps and filler sections only.

NOTES:

- Blank control sections are subject to the same color selections and pricing as the appropriate matching heater.
- Specify holding coil voltage where applicable.
- Not available in ASL3 control sections.
- **R (For use with CSL & CPL end caps and filler sections only.)
- On all 5inch high steel convectors the two pole thermostat must go in the right hand junction box.

COMMERCIAL SLOPE TOP CONVECTORS

ICST

APPLICATIONS:

Commercial Slope Top electric convectors provides total or supplemental heating in offices, corridors, lobbies, motel hallways and stairwells, apartment maintenance rooms and stairwells or other similar facilities. Can be mounted under windows to help prevent cold down drafts. This heater is not intended for residential use.

FEATURES:

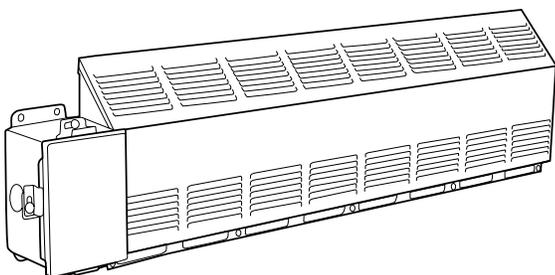
- With a range of heating capacities from 125 watts (426 BTU per hour) to 250 watts (852 BTU per hour) per foot length, these units can run from wall-to-wall or they can be mounted as discrete units in lengths of 28-inches to ten feet.
- The attractive 45 degree sloped top discourages use of heater as a shelf or a "stepstool."
- The unit is designed to mount on the wall at sill height (or lower) and can be positioned directly on the floor. The end of the unit can be positioned against adjacent sidewall if desired.
- Standard finish is neutral grey. Also available in a spectrum of muted architectural colors in baked enamel finishes which are compatible with all interior decors.
- Front cover is fabricated from 16-gauge steel, while the back is constructed of 18-gauge steel. For service, all internal parts are accessible by removing cover. Top of front cover engages with back; bottom of cover locks into place with screws.
- Elements are long life metal sheath, aluminum fin type anchored to allow for quiet expansion and contraction.
- Thermal limit switch with linear type (full length) sensing bulb provides constant protection against overheating from any cause. The switch will automatically reset when normal operating temperatures are restored.
- Units are prewired. Units without optional controls are designed for either right hand or left hand entry for easy connection of supply wiring from bottom, rear or end, as well multiple wiring of adjacent heaters from one entry point.



NEMA 4X model shown.

- Accessories include a complete line of matching splice sections, inside and outside corners.
- Optional built-in controls consist of: thermostat, power on / off switch, transformer relay, and power relay. (Refer to specification table for ratings.)
- Stainless Steel, NEMA 4X models available for washdown and corrosive applications. Contact Sales Rep. Refer to pricebook for stainless steel NEMA 4X prices.

Note: These products are Made-to-order and cannot be returned.

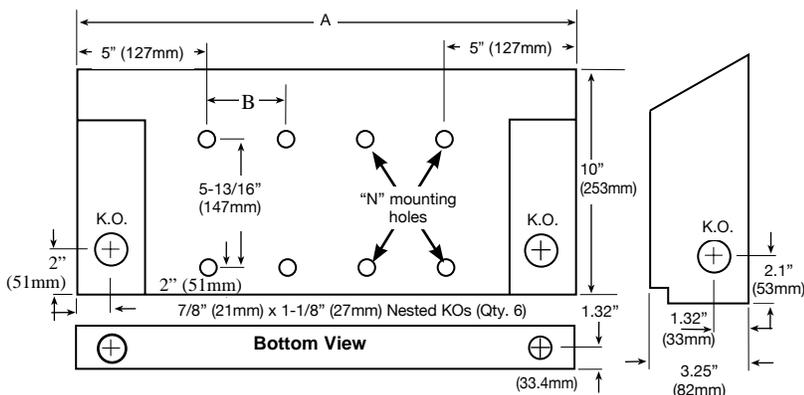


The NEMA 4X series slope top convectors were specifically designed for use in wet or corrosive environments like those found in food processing areas, dairies, breweries, locker rooms, stadium dugouts, and other areas that are subject to high pressure hosing and / or constantly wet conditions. They are suitable for use in areas where severe corrosion problems exist from either salt spray or chemical exposure like a sewage treatment plant or indoor swimming pool.

FEATURES:

- Rugged 16-gauge Stainless Steel front and back covers.
- NEMA 4X rated for washdown and corrosive environments.
- 250 Watts per foot.
- Automatic thermal cutout.

Note: Optional built-in controls are not compatible with the NEMA 4X series of slope top convectors.



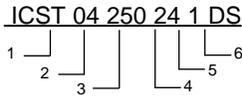
NEMA 4X Models available for washdown and corrosive applications. Contact Sales Representative.

SPECIFICATIONS

WATTAGE	DIMENSIONS		
	A	B	N HOLES
500	28" 709 mm		
750	36" 912 mm		
1000	48" 1216 mm	19" 481 mm	2
1250	60" 1520 mm	16.68" 423 mm	4
1500	72" 1842 mm	20.63" 523 mm	4
2000	96" 2432 mm	21.5" 545 mm	6
2500	120" 3040 mm	27.5" 697 mm	6

HOW TO ORDER THE ICST CONVECTORS:

Ex. 4', 250 W/ft., 240V, 1 phase unit with a built-in disconnect switch.



1. Prefix: ICST designates 3" x 10" slope top convector
2. Cabinet length:
02 = 28", 03 = 36", 04 = 48", 05 = 60"
06 = 72", 08 = 96", 10 = 120"
3. Watt Density:
125W/ft., 188W/ft., 250W/ft.
4. Voltage: 12 = 120V; 20 = 208V; 24 = 240V; 27=277V;
34 =347V; 60 = 600V
5. Phase: 1 = 1 PH.
6. Optional built-in controls:
2T - double pole thermostat
T - single pole thermostat
DS - disconnect switch
PR - power relay
TR - transformer relay
PDT - pilot duty thermostat for 347V and 600V

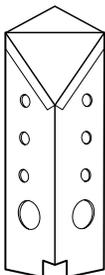
CATALOG NO.	LENGTH	NOMINAL WATTS/TT.	TOTAL HEATING CAPACITY WATTS	BTU/HR.	120V	208V	240V	277V	347V	600V	SHIP WT. (LBS.)
ICST02	28"	125	250	853	2.1	1.2	1.0	0.9	-	-	12
		188	375	1280	3.1	1.8	1.6	1.4	-	-	
		250	500	1706	4.2	2.4	2.1	1.8	1.4	-	
ICST03	36"	125	375	1280	3.1	1.8	1.6	1.4	1.1	-	15
		188	546	1925	4.7	2.7	2.4	2.0	1.6	-	
		250	750	2560	6.2	3.6	3.1	2.7	2.2	-	
ICST04	48"	125	500	1706	4.2	2.4	2.1	1.8	1.4	-	19
		188	750	2560	6.2	3.6	3.1	2.7	2.2	1.3	
		250	1000	3412	8.3	4.8	4.2	3.6	2.9	1.7	
ICST05	60"	125	625	2133	5.2	3.0	2.6	2.3	1.8	1.0	24
		188	940	3208	7.8	4.5	3.9	3.4	2.7	1.6	
		250	1250	4266	10.4	6.0	5.3	4.5	3.6	2.1	
ICST06	72"	125	750	2560	6.2	3.6	3.1	2.7	2.1	1.3	26
		188	1125	3840	9.4	5.4	4.7	4.1	3.2	1.9	
		250	1500	5120	12.5	7.2	6.3	5.4	4.3	2.5	
ICST08	96"	125	1000	3412	-	4.8	4.2	3.6	2.9	1.7	37
		188	1500	5120	-	7.2	6.3	5.4	4.3	2.5	
		250	2000	6824	-	9.6	8.3	7.2	5.8	3.3	
ICST10	120"	125	1250	4266	-	6.0	5.2	4.5	3.6	2.1	45
		188	1875	6400	-	9.0	7.8	6.8	5.4	3.1	
		250	2500	8532	-	12.0	10.4	9.0	7.2	4.2	

OPTIONAL BUILT-IN CONTROLS AND OPTIONAL ACCESSORIES

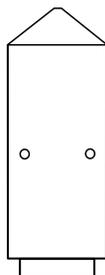
SUFFIX ADDITION TO BASIC CAL. NO. (SEE NOTE 4)	OPTIONAL BUILT-IN CONTROLS (SEE NOTE 5)	RATINGS (SEE NOTE 2)
*T	1-Pole Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range; adjustable through outlet grille-tamper-resistant. Not available on three-phase heaters
*2T	2-Pole Thermostat	Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages). 60-120°F temperature range; adjustable through outlet grille-tamper-resistant. (See Note 2 for amperage restrictions.)
*DS	Power On / Off Switch	Double-pole, rated 20 amp @ 120-277 VAC. Two required for 3Ø heaters and 1Ø heaters over 20 amps. (See Note 1)
*TR	Transformer Relay	Single-pole, low voltage relay with built-in transformer (24 VAC control), rated 25 amps @ 120-240 VAC and 22 amps @ 277 VAC. 17 amps @ 347V, 12 amps @ 600V (See Note 6). Not available on 3Ø heaters
*PR	Power Relay	Single-pole magnetic relay, rated 18 amps @ 120-600 VAC. (See Notes 1, 3 and 6.) Specify control voltage. Rated 24 amps @ 120-240 VAC and 22 amps @ 277 VAC. Pilot duty rating of 125 VA (all voltages)
ICSTIC	2	Inside corner (requires additional wall space - use with ST model only)
ICSTOC	2	Outside corner (requires additional wall space - use with ST model only)
ICSTJS	1	Splice plate wide, coverage gap up to 1/2" (use with ST model only)
STO2BS		2-foot Blank Section (unheated section)
STO4BS		4-foot Blank Section (unheated section)
STO6BS		6-foot Blank Section (unheated section)
STO8BS		8-foot Blank Section (unheated section)

NOTE: For 347V and 600V units options T, 2T, DS, are not available. Specify PDT as the suffix for a thermostat.

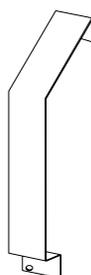
ACCESSORIES



ICSTOC



ICSTIC



ICSTJS

NOTES:

- * Factory built-in. Add suffix to heater catalog number.
- *1. For 1Ø loads over 20A and all 3Ø loads, specify 2 power on / off switches.
- 2. A control combination is not available on heaters that have an amperage draw which exceeds the rated limit of the lowest rated control.
- 3. This control combination is not available on 2-element heaters drawing more than 36 amperes, single-phase 3-element heaters drawing more than 54.0 amperes, or three-phase heater drawing more than 18 amperes per line.
- 4. To develop a catalog no. for a heater with built-in controls, add the appropriate letters as suffix to the basic heater catalog no. Example: CSLAS4250TDS is a CSL, 4 foot long, 250 watts per foot, with a thermostat and power on / off switch.
- 5. For non-standard controls or combinations, contact Factory.
- 6. Specify holding coil voltage where applicable.
- 7. To develop a catalog no. for any accessory with built-in device, add the appropriate letter as suffix to the basic accessory Catalog Number.

COVE HEATERS

RCC

FEATURES:

- Dual Function Heating.
- "Sunshine" Type Heating.
- Room comfort at lower temperatures.
- Convenient wall mounting.
- High efficiency textured radiating surface.
- Easy surface mount installation.
- Unique hanging system.
- New Profile for maximum convection.



File #E21609

APPLICATIONS:

Type RCC Series Cove Heaters can fulfill the requirements of virtually any type residential or commercial heating situation. Individual room control, ease of installation and out of the way mounting make it equally desirable for total or supplemental comfort heating. Typical uses are day care centers, apartments, bathrooms, bedrooms, living rooms, kitchens, and foyers.

COLOR COORDINATED - Heaters are an off-white color to complement any interior wall design. (Dove Grey DG and Desert Tan DT are optional)

"INFRARED" TYPE HEAT – Radiant heat provides heating comfort in much the same manner as the sun. Heat energy, in form similar to light rays, travel in a straight line from the heater to the nearest object, where the energy is absorbed and the object becomes warm. Some rays are reflected and strike other objects, warming them also.

DUAL FUNCTION HEATING - In addition to radiant heat, the RCC Series uses part of its energy to heat air passing behind and over the heater by convection flow, thus helping to "mix" the air in the room and achieving balanced heating throughout.

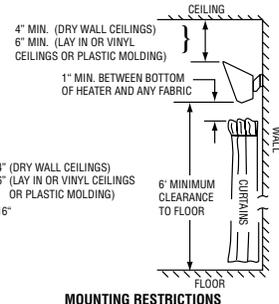
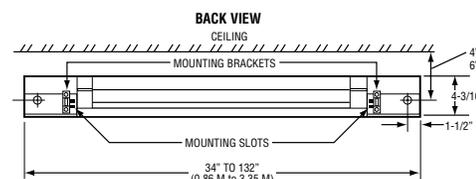
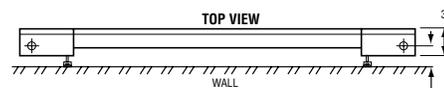
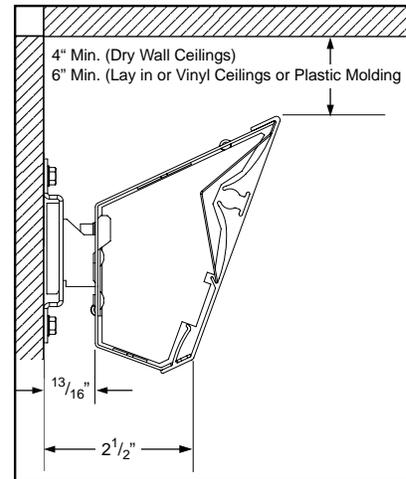
COMFORT AT LOWER TEMPERATURES – In non-radiant types of heating systems, it is necessary to warm and circulate air in order to keep the temperature in a room at a comfortable level. The warmer air warms the furniture and people in the room. With radiant heating, furniture and people are heated directly. The surrounding air eventually becomes warm, but the comfort level is not dependent upon the air temperature. Room temperature can be lowered 3 to 5 degrees while still maintaining the same comfort level. Furniture, walls, floors, etc., absorb some of the energy and act as a heat bank, releasing some of the warmth into the room during the "off" period of the normal "on-off" cycle of the cove heaters.

NEW EXTRUSION DESIGN - The extruded aluminum front panel is coated with high temperature textured paint radiating a majority of its heat energy from the front surface. The remaining energy is "wiped off" by a convection flow behind and over the top of the heater which circulates warm air into the room.

WALL MOUNTING – This cove heater mounts on any wall surface, near the ceiling where its dual function heating can be fully utilized. Radiant heat energy is directed downward, warming people and objects near the floor.

SELECTION CHART

CATALOG NO.	UPC 6 85360	WATTS	VOLTS	BTUH	AMPS	LENGTH (INCHES)	SHIPPING WT. (LBS.)
RCC4508C	14717 8	450W	208V	1536	2.2	34	4
RCC4512C	14718 5		120V		3.7	34	
RCC4524C	14719 2		240V		1.9	34	
RCC6008C	14720 8	600W	208V	2048	2.9	47	6
RCC6012C	14721 5		120V		5.0	47	
RCC6024C	14722 2		240V		2.5	47	
RCC6027C	14723 9	750W	277V	2560	2.2	47	7
RCC7508C	14724 6		208V		3.6	59	
RCC7512C	14725 3		120V		6.2	59	
RCC7524C	14726 0	900W	240V	3072	3.1	59	8
RCC7527C	14727 7		277V		2.7	59	
RCC9008C	14728 4		208V		4.3	71	
RCC9012C	14729 1	1050W	120V	3583	7.5	71	9
RCC9024C	14730 7		240V		3.7	71	
RCC9027C	14731 4		277V		3.2	71	
RCC10508C	14732 1	1200W	208V	4095	5.0	83	10
RCC10512C	14733 8		120V		8.8	83	
RCC10524C	14745 1		240V		4.4	83	
RCC10527C	14734 5	1500W	277V	5120	3.8	83	13
RCC12008C	14735 2		208V		5.8	94	
RCC12012C	14736 9		120V		10.0	94	
RCC12024C	14737 6	1800W	240V	6142	5.0	94	15
RCC12027C	14738 3		277V		4.3	94	
RCC15008C	14739 0		208V		7.2	118	
RCC15024C	14740 6	Integral Thermostat: Range 45-90°F will positive off.	240V	Splice Plate Assembly	6.2	118	1
RCC15027C	14741 3		277V		5.4	118	
RCC18008C	14742 0		208V		8.7	132	
RCC18024C	14743 7	2	240V	Splice Plate Assembly	7.5	132	2
RCC18027C	14744 4		277V		6.5	132	



RADIANT CEILING PANELS

CP

APPLICATIONS:

For complete or supplemental heating in commercial, residential and institutional structures—new or remodeled construction of offices, classrooms, family rooms, bathrooms - whenever the utility and comfort of radiant ceiling heating is desired.

FEATURES:

Radiant ceiling panel applications as primary or supplemental heat include:

- Commercial building perimeters to neutralize down-drafts over glass, enclosed outside walkways, and washrooms.
- School locker rooms, cafeterias, laboratories and classrooms.
- Hospital burn and trauma areas, recovery and examination rooms.
- Residential isolated cold spots, above sliding glass doors and floor to ceiling windows.
- Clean, gentle, comfortable heat that is ideal for offsetting perimeter heat loss; saving substantial energy over other systems by heating people and objects rather than all the air in a room or building.
- People are comfortable at lower room temperatures with a radiant system than with a hot air convective system - comfortable in the 60's rather than in the 70's. And lower thermostat settings can save hundreds of dollars in energy bills each year.
- Ceiling panels allow full usage of wall and floor space. No noise. No moving parts. No maintenance. No ceilings, walls or drapes to clean. No dried out air.
- A simple system, easy to install, easy to control room by room without wasting energy needlessly heating unoccupied spaces.



BUILDING RESTORATION: Ceiling panels make attractive, energy saving restoration of old buildings possible or they can be used to replace expensive, outdated heating systems.

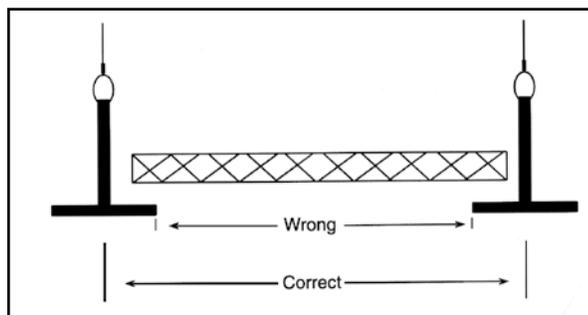


Radiant ceiling panels allow full usage of wall and floor space.

- No noise.
- No moving parts.
- No maintenance.
- No ceiling, walls or drapes to clean.
- No dried out air.



Measuring for Custom Ceiling Panels:



- Panels are built to fit inside the dimensions given.
- Measurements must be from "T" Bar Center Line to "T" Bar Center Line
- Do Not Measure Opening



HEATING PANEL

STANDARD FEATURES: CUTAWAY DRAWING OF HEATING PANEL

METAL:

Back - 24 Gauge Galvanized or Aluminized Steel.
 Front - 22 Gauge Galvanized or Aluminized Steel.
 Sides - Overlapping Front and Back

WIRE:

Internal - 200°C, 14 Gauge, Teflon insulated.
 External - Pig Tails with 48" of 1/2" flexible conduit and connector for J-Box.

ELEMENT:

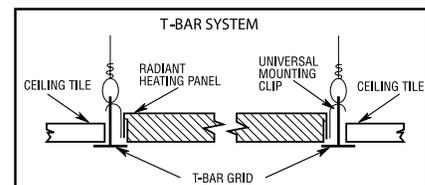
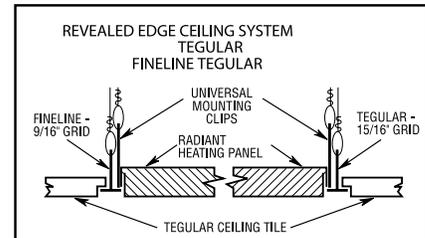
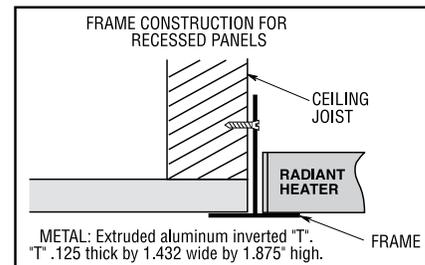
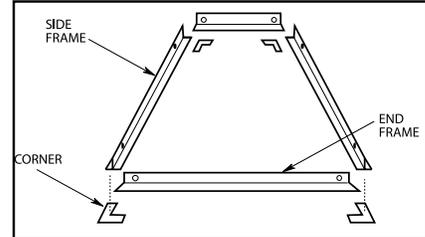
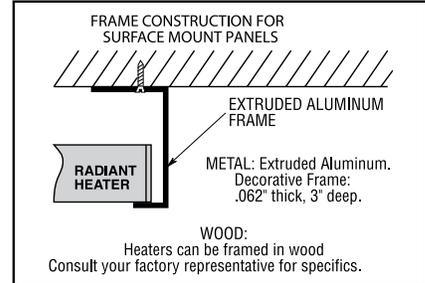
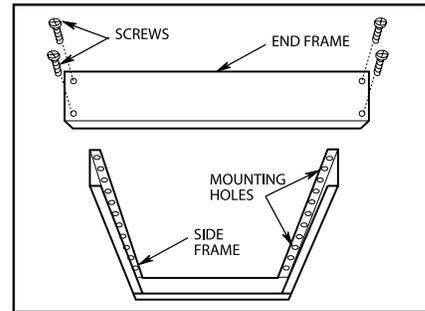
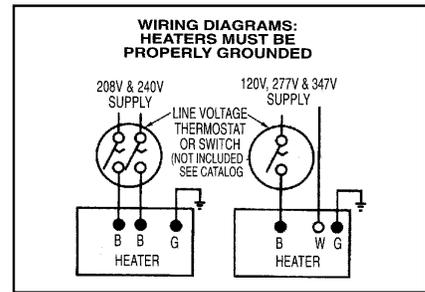
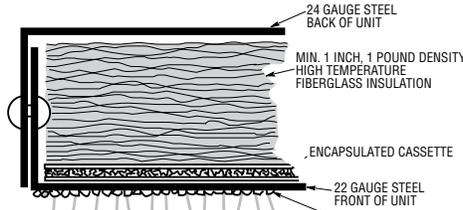
Encapsulated cassette element delivers a uniform temperature distribution over entire panel surface.

INSULATION:

Minimum 1 inch, 1 pound density, high temperature fiberglass.

SURFACE:

All ceiling panels are powder coat birch white finish.



CATALOG NO.	UPC	VOLTS	WATTS	AMPS	SIZE	SHIP WT. (LBS.).
CP251	6 85360 01658 0	120	250	2.1	24" x 24"	15
CP258	6 85360 01663 4	208	250	1.2	24" x 24"	15
CP252	6 85360 01659 7	240	250	1.0	24" x 24"	15
CP257	6 85360 01662 7	277	250	0.9	24" x 24"	15
CP253	6 85360 01660 3	347	250	0.7	24" x 24"	15
CP311	6 85360 01669 6	120	310	2.6	24" x 24"	15
CP318	6 85360 01674 0	208	310	1.5	24" x 24"	15
CP312	6 85360 01670 2	240	310	1.3	24" x 24"	15
CP317	6 85360 01671 9	277	310	1.1	24" x 24"	15
CP313	6 85360 01673 3	347	310	0.9	24" x 24"	15
CP371	6 85360 01675 7	120	375	3.1	24" x 24"	15
CP378	6 85360 01685 6	208	375	1.8	24" x 24"	15
CP372	6 85360 01676 4	240	375	1.6	24" x 24"	15
CP377	6 85360 01677 1	277	375	1.4	24" x 24"	15
CP373	6 85360 01684 9	347	375	1.1	24" x 24"	15
CP501	6 85360 01691 7	120	500	4.2	24" x 48"	28
CP508	6 85360 01696 2	208	500	2.4	24" x 48"	28
CP502	6 85360 01692 4	240	500	2.1	24" x 48"	28
CP507	6 85360 01695 5	277	500	1.8	24" x 48"	28
CP503	6 85360 01693 1	347	500	1.4	24" x 48"	28
CP621	6 85360 01697 9	120	625	5.2	24" x 48"	28
CP628	6 85360 01707 5	208	625	3.0	24" x 48"	28
CP622	6 85360 01698 6	240	625	2.6	24" x 48"	28
CP627	6 85360 01706 8	277	625	2.3	24" x 48"	28
CP623	6 85360 01699 3	347	625	1.8	24" x 48"	28
CP751	6 85360 01713 6	120	750	6.3	24" x 48"	28
CP758	6 85360 01718 1	208	750	3.6	24" x 48"	28
CP752	6 85360 01714 3	240	750	3.1	24" x 48"	28
CP757	6 85360 01717 4	277	750	2.7	24" x 48"	28
CP753	6 85360 01715 0	347	750	2.1	24" x 48"	28

CATALOG NO.	UPC 6 85360	DESCRIPTION
QSF2424	6 85360 20184 3	Surface Mounting Frame for 24" x 24" Panels
QSF2448	6 85360 20185 0	Surface Mounting Frame for 24" x 48" Panels
QRF2424	6 85360 20186 7	Recess Mounting Frame for 24" x 24" Panels
QRF2448	6 85360 20187 4	Recess Mounting Frame for 24" x 48" Panels

ELEMENT - Encapsulated cassette heating element assures uniform temperatures and long life.

WIRING - For connection to the main power supply, the heater is completely prewired including green ground wire, with the lead wires housed in a 48-inch length of flexible metal conduit and connector for J-Box mounting.

STANDARD FINISH - Standard mounting kits finished white to blend with standard panel birch white finish.

UNIVERSAL HANGING CLIPS - All radiant ceiling panels are supplied with COMBINATION EARTHQUAKE/T-BAR

GRIP CLIPS as a standard feature. These clips have holes for support chains or can be folded over the T-BAR to reduce lateral movement.

CERTIFICATION AND SAFETY FIRE RATING - Heating panels do not have a fire rating, but construction is of fire retardant materials. Panels normally are treated like light fixtures. If necessary, acoustical tile can be placed on top of the panels.

HAZARDOUS AREAS - Heating panels do not have a hazardous rating.

CUSTOM FEATURES:

CUSTOM SIZE PANELS - While a wide variety of panel sizes are listed as standard, the factory produces thousands of panels each year of varying widths and lengths to order.

CATALOG NO.	PANEL WIDTH	WALL DENSITY	WATTS PER PANEL						
			NOMINAL PANEL LENGTH						
			24" - 35"	36" - 47"	48" - 59"	60" - 71"	72" - 83"	84" - 95"	96"
QT+**@@#	10" - 13"	High	155	235	315	390 [^]	N/A	N/A	N/A
		Med.	130	195	260	325 [^]	N/A	N/A	N/A
		Low	105	155	210	260 [^]	N/A	N/A	N/A
	14" - 17"	High	235	350	470	585 [^]	N/A	N/A	N/A
		Med.	195	295	390	490 [^]	N/A	N/A	N/A
		Low	155	235	315	390 [^]	N/A	N/A	N/A
	18" - 21"	High	315	470	625	780	940 ^{^^}	N/A	N/A
		Med.	260	390	520	650	780 ^{^^}	N/A	N/A
		Low	210	315	415	520	625 ^{^^}	N/A	N/A
	22" - 28"	High	375	565	750	940	1125	1315	1500
		Med.	310	470	625	785	940	1095	1250
		Low	250	375	500	625	750	875	1000

LEGEND: +Watt Density: H=High; M=Medium; L=Low
 **Width of Panel
 @ @Length of Panel

[^]Maximum Panel Length = 60 inches
^{^^}Maximum Panel Length = 72 inches
[#]Voltage Designation: 1 = 120, 8;
 2 = 240; 7 = 277; 3 = 347

Note: These products are Made-to-order and cannot be returned.

CUSTOM SIZE FRAMES - ACCESSORIES

CUSTOM PANEL OPTIONS	DESCRIPTION
QSF**@@	Surface Mounting Frame
QRF@@	Recess Mounting Frame

TEGULAR (revealed edge) - Tegular systems may utilize a standard grid with a 10/16" cross-T or a "fine line" grid with a 9/16" cross-T. The acoustical title is notched to hang below the grid creating the revealed edge. Tegular panels are built with a support angle on all four sides to allow the panel front to drop flush with the finished ceiling. Tegular and Fine line Tegular panels are supplied standard with universal mounting clips installed for support chain.

SILKSCREEN - Radiant heating panels can be silk screened to provide an architectural blend with leading acoustical titles. For T-bar, concealed spline and Tegular ceiling systems.

CUSTOM COLORS - Radiant heating panels can be painted any color desired with high temperature acrylic paints without affecting panel performance. Radiant energy is emitted from heating panels in the 8-10 micron wavelength range. One of the principal characteristics of the wavelength is that it is not color selective as are shorter wavelengths. Consequently, the surface color of the panel is unimportant to heating efficiency and can be considered solely in the light of aesthetics.

PANEL FRONTS FOR CONTINUOUS CEILING LINE - To provide a continuous ceiling line around the perimeter of a building, the factory can provide panel fronts to be interspersed between the functioning heating panels.

SEAL TIGHT FLEXIBLE CONDUIT AND CONNECTORS - Radiant ceiling panels come with 1/2" greenfield flexible conduit and straight connectors as standard equipment. Seal tight connectors and conduit can be substituted at the factor if panels are to be used in high moisture areas or if required by local electrical codes.

FACTORY SILICONE SEALED - PANELS FOR USE IN HIGH MOISTURE AREAS. Exterior moisture and condensation do not affect heating panel performance, but water inside the unit can cause the panel to fail. Panels being used in locker rooms and swimming pool areas should be totally sealed with silicone at the factory before shipment. If there is a chance of moisture above the ceiling, then seal tight conduit and seal tight connectors also should be used.

LONGER FLEXIBLE CONDUIT - Panels will replace the standard 48" greenfield with up to 11' of 1/2" flexible conduit.

CONTROLS - P/E Switches - factory prewired to heaters. 20 amps - 120V, 240V, 208V and 277V. Power Relay - factory prewired to heaters. 30 amps single pole, 120 volt holding coil.

HEAVIER DUTY PANELS - For special installation the factory can use heavier gauge steel in the construction of the panels.

STAINLESS STEEL CONSTRUCTION - PANELS FOR CHLORINE STORAGE AREAS - Special stainless steel panels are available for chlorine storage areas. Panels will be equipped with seal tight connectors and silicone sealed. If orders call for stainless steel construction the panels will be painted unless specified different.

MODULAR WIRING SYSTEMS - For specific jobs, the factor can substitute modular connector for the straight connectors and pig tails that are standard equipment.

CUSTOM PANEL OPTIONS	DESCRIPTION
SILKSCREEN	To provide an architectural blend with leading ceiling tile, 2ft x 5ft max. there is a panel charge each time. See price book. If Berko does not have a tile pattern screen there is an additional one time charge. See price boo.
CUSTOM PAINT	Solid color custom painted panel - To provide an accent strip
TEGULAR or FINELINE TEGULAR	Tegular - Reveal edge detail - (For 15/16" grid) CONSTRUCTION Fineline Tegular - Reveal edge detail - (For 9/16" grid)
EXTRA-LENGTH GREENFIELD FLEX (1/2" x 48" Standard)	Custom Flex Length: 1/2" x 60" 1/2" x 72" 1/2" x 84" 1/2" x 96" 1/2" x 108" 1/2" x 120" 1/2" x 132"
SEALTITE CONDUIT	1/2" x 48" 1/2" x 60" 1/2" x 72" 1/2" x 84" 1/2" x 96" 1/2" x 108" 1/2" x 120" 1/2" x 132"
SILICONE SEAL	Seams sealed for added moisture protection - for use in shower rooms and above pool windows
STAINLESS STEEL CONSTRUCTION	Stainless steel - 22 gauge front panel, 24 gauge back panel. Includes 1/2" x 48" sealtite flex and silicone seal
HEAVY DUTY CONSTRUCTION	16 gauge Galvanized or Aluminized Steel front panel 18 gauge Galvanized or Aluminized Steel back panel
FILLER PANELS	Finished to match Standard, Silkscreen or Custom painted panel
	Does not contain an element or flex conduit. Standard construction: front only Tegular / Fineline Tegular: front and back only
PE SWITCH	Pneumatic electric switch
POWER CONTACTOR	Power contactor

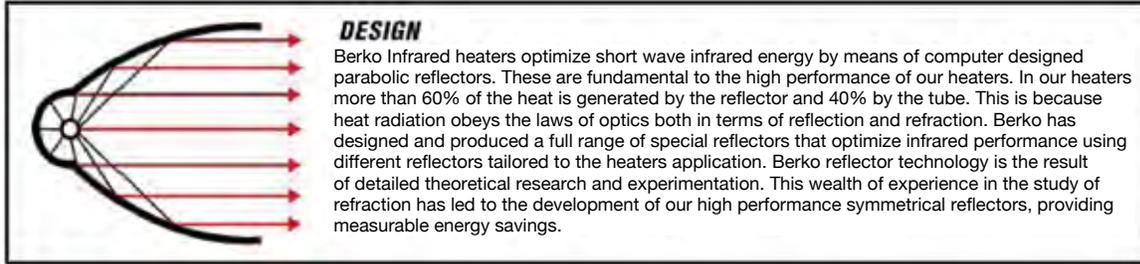
INFRARED HEATERS

APPLICATIONS:

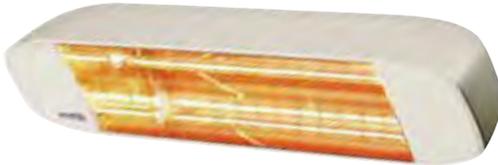
- Houses, Basements, Patios
- Inside/Outside Work Areas
- Changing rooms, Sports and Fitness Areas, Health Spas, Swimming Pools
- Terraces, Open Outdoor Areas, Winter Gardens, Verandas
- Outdoor Bar Areas and Gazebos
- Restaurants, Hotels and Pubs

MOUNTING LIMITATIONS:

- This heater is intended for wall mounting only using the wall bracket provided with heater
- Heater must be mounted at least 8' 3" (2.5 M) off floor
- Do not mount heater to ceiling
- Top of heater must be located at least 12" (305 mm) from the ceiling with ends at least 36" (914mm) from walls



INFRARED PLUG IN HEATERS - BHRA11 SERIES



CATALOG NUMBER	UPC	VOLTS	PHASE	AMPS	WATTS	BTU/HR.	DIMENSIONS (L x W x H)	SHIP WT. lbs. (kg)
BHRA11115W	6 85360 16370 3	120	1	12.5	1500	5115	17-15/16" x 3-1/2" x 5-1/8"	4.2 (1.9)

INFRARED HEATERS - BHRA66 SERIES



CATALOG NUMBER	UPC	VOLTS	PHASE	AMPS	WATTS	BTU/HR.	DIMENSIONS (L x W x H)	SHIP WT. lbs. (kg)
BHRA66420B	6 85360 16363 5	240	1	8.45	2000	6824	20-1/16" x 6-1/4" x 8-1/12"	6.6 (3)

COMMERCIAL INFRARED HEATERS - BVRC44 SERIES



CATALOG NUMBER	UPC	VOLTS	PHASE	AMPS	WATTS	BTU/HR.	DIMENSIONS (L x W x H)	SHIP WT. lbs. (kg)
BVRC4420SG	6 85360 16381 9	240	1	8.4	2000	6824	15-3/4" x 4-3/4" x 8-11/16"	6.8 (3.1)
BVRC4440DTG	6 85360 16384 0	240	1	16.7	4000	13648	15-3/4" x 5-1/8" x 13-3/4"	9 (4.1)
BVRC4440DWG	6 85360 16386 4	240	1	16.7	4000	13648	31-1/2" x 4-3/4" x 5-1/8"	11 (5)

2 ELEMENT & 3 ELEMENT INFRARED HEATERS - VRP/VRS

APPLICATIONS:

Total or supplement (spot) heating in commercial and industrial areas, assembly lines, aircraft hangers, outside smoking areas, work stations and shipping areas.

Snow melting for waiting areas and entryways, stairs, parking lots, driveways and loading docks, smoking areas.

Available with Stainless Steel or Painted Steel enclosure.

Double element and three element heaters provide concentrated heating capacity in a single infrared radiant heater.

FEATURES:

- Two or three element design.
- Painted or Stainless Steel enclosure.
- Heavy gauge gold anodized reflectors, offer a wide selection of beam patterns.
- Easy one person installation - attach upper mounting support to ceiling or optional wall bracket, rough in wiring, hang heater by tabs to complete wiring, swing heater into place to complete installation.

Type VRP – 20 gauge galvanized steel enclosure and heater support / wiring compartment painted in a Statuary Bronze powder coat finish.

Type VRS – Type 304, brush finished, 20 gauge, stainless steel enclosure and heater support / wiring compartment for applications requiring additional corrosion resistance.



ELEMENTS:

METAL SHEATH, QUARTZ TUBE OR QUARTZ LAMP ELEMENTS – used interchangeably provide the flexibility necessary for multiple application projects.

METAL SHEATHED ELEMENTS – used indoors, or outdoors protected from the wind, in areas where physical abuse is a problem.

QUARTZ TUBE AND QUARTZ LAMP – used indoors and outdoors in areas where abuse is not a problem for snow melting and spot heating.

Pigtail element leads for a more positive connection on applications where physical abuse is a problem.

2 ELEMENT ENCLOSURE

PAINTED CATALOG NUMBER	UPC	STAINLESS CATALOG NUMBER	UPC	REFLECTIVE ANGLE	DIMENSIONS			SHIP WT. lbs. (kg)
					HEIGHT in (mm)	WIDTH in (mm)	LENGTH in (mm)	
VRP223S	6 85360 07505 1	VRS223S	6 85360 07715 4	30 Sym	7.125 (181)	15 (381)	24 (610)	19 (8.6)
VRP226S	6 85360 07521 1	VRS226S	6 85360 07731 4	60 Sym				
VRP226AS	6 85360 07513 6	VRS226AS	6 85360 07723 9	60 Asym				
VRP229S	6 85360 07529 7	VRS229S	6 85360 07739 0	90 Sym	7.125 (181)	15 (381)	33 (838)	24 (10.9)
VRP233S	6 85360 07545 7	VRS233S	6 85360 07755 0	30 Sym				
VRP236S	6 85360 07560 0	VRS236S	6 85360 07771 0	60 Sym				
VRP236AS	6 85360 07552 5	VRS236AS	6 85360 07763 5	60 Asym	7.125 (181)	15 (381)	46 (1168)	31 (14.1)
VRP239S	6 85360 07568 6	VRS239S	6 85360 07779 6	90 Sym				
VRP243S	6 85360 07581 5	VRS243S	6 85360 07792 5	30 Sym				
VRP246S	6 85360 07591 4	VRS246S	6 85360 07802 1	60 Sym	7.125 (181)	15 (381)	46 (1168)	31 (14.1)
VRP246AS	6 85360 07586 0	VRS246AS	6 85360 07797 0	60 Asym				
VRP249S	6 85360 07596 9	VRS249S	6 85360 07807 6	90 Sym				

3 ELEMENT ENCLOSURE

PAINTED CATALOG NUMBER	UPC	STAINLESS CATALOG NUMBER	UPC	REFLECTIVE ANGLE	DIMENSIONS			SHIP WT. lbs. (kg)
					HEIGHT in (mm)	WIDTH in (mm)	LENGTH in (mm)	
VRP323S	6 85360 07609 6	VRS323S	6 85360 08196 0	30 Sym	7.125 (181)	21.5 (546)	24 (610)	23 (10.4)
VRP326S	6 85360 07625 6	VRS326S	6 85360 07835 9	60 Sym				
VRP326AS	6 85360 07677 1	VRS326AS	6 85360 07827 4	60 Asym				
VRP329S	6 85360 07633 1	VRS329S	6 85360 07843 4	90 Sym	7.125 (181)	21.5 (546)	33 (838)	31 (14.1)
VRP333S	6 85360 07649 2	VRS333S	6 85360 07860 1	30 Sym				
VRP336S	6 85360 07665 2	VRS336S	6 85360 07875 5	60 Sym				
VRP336AS	6 85360 02983 2	VRS336AS	6 85360 07868 7	60 Asym	7.125 (181)	21.5 (546)	46 (1168)	39 (17.7)
VRP339S	6 85360 07673 7	VRS339S	6 85360 07884 7	90 Sym				
VRP343S	6 85360 07686 7	VRS343S	6 85360 07896 0	30 Sym				
VRP346S	6 85360 07696 6	VRS346S	6 85360 07907 3	60 Sym	7.125 (181)	21.5 (546)	46 (1168)	39 (17.7)
VRP346AS	6 85360 07691 1	VRS346AS	6 85360 07902 8	60 Asym				
VRP349S	6 85360 07701 7	VRS349S	6 85360 07912 7	90 Sym				

2 ELEMENT & 3 ELEMENT INFRARED HEATERS

VRP/VRS

ELEMENT SELECTION CHART (1)

CATALOG NUMBER	UPC 6-85360	VOLTS	ELEMENT WATTS	ELEMENT TYPE	USED WITH FIXTURE	SHIP WT. lbs. (kg)
V2MS08208	13849 7	208	850	Metal Sheath	VRP22 (22"L) VRS22 (24"L)	1 (454)
V2MS08240	07991 2	240				
V2MS08277	07992 9	277				
V2MS08347	13850 3	347				
V2MS08480	07994 3	480				
V2MS08600	07995 0	600				
V2QT10208	08003 1	208	1000	Quartz Tube	VRP32 (24"L) VRS32 (24"L)	1 (454)
V2QT10240	08004 8	240				
V2QT10277	08005 5	277				
V2QL16208	07996 7	208	1600	Quartz Lamp		1 (454)
V2QL16240	07997 4	240				
V2QL16277	07998 1	277				
V2QL16347	07999 8	347				
V2QL16480	08001 7	480				
V2QL16600	08002 4	600				
V3MS15208	08009 3	208	1500	Metal Sheath	VRP2 (33"L) VRS2 (33"L)	1 (454)
V3MS15240	08010 9	240				
V3MS15277	08011 6	277				
V3MS15347	08012 3	347				
V3MS15480	08014 7	480				
V3MS15600	08015 4	600				
V3QT15208	13977 7	208	1500	Quartz Tube	VRP3 (33"L) VRS3 (33"L)	1 (454)
V3QT15240	13978 4	240				
V3QT15277	13979 1	277				
V3QT15347	13980 7	347				
V3QT15480	13981 4	480				
V3QT15600	13982 1	600				
V3QL25208	08015 4	208	2500	Quartz Lamp		1 (454)
V3QL25240	08018 5	240				
V3QL25277	08018 5	277				
V3QL25347	08019 2	347				
V3QL25480	08021 5	480				
V3QL25600	08022 2	600				
V4MS20208	08030 7	208	2000	Metal Sheath	VRP2 (46"L) VRS2 (46"L)	1 (454)
V4MS20240	08031 4	240				
V4MS20277	08032 1	277				
V4MS20347	08033 8	347				
V4MS20480	08035 2	480				
V4MS20600	08036 9	600				
V4QT20208	13983 8	208	2000	Quartz Tube	VRP3 (46"L) VRS3 (46"L)	1 (454)
V4QT20240	13984 5	240				
V4QT20277	13985 2	277				
V4QT20347	13986 9	347				
V4QT20480	13987 6	480				
V4QT20600	13988 3	600				
V4QL36347	08037 6	347	3650	Quartz Lamp		1 (454)
V4QL36480	08039 0	480				
V4QL36600	08040 6	600				

APPLICATION LIMITATIONS and PRECAUTIONS:

HAZARDOUS ATMOSPHERE – These heaters are not suitable for use in hazardous locations.

MOUNTING CLEARANCES – Maintain minimum clearances of:

- 24" (610 mm) to vertical side walls.
- 36" (914 mm) between heaters mounted side by side. Heaters may be mounted end to end.
- 6" (152 mm) to ceiling.
- 84" (2134 mm) to floor.

Maintain at least 5 ft. (1.5 m), in radiant path, between bottom of heater and combustible material.

CORROSIVE ATMOSPHERES – The high quality finish and aluminized steel of the VRP series will give excellent service under normal to severe operating conditions, including coastal salt air and most industrial atmospheres. However for severe conditions such as swimming pool, green houses, etc., the VRS stainless steel enclosure should be used.

(1) 1 element per carton order, 2 for 2 element enclosure or 3 for 3 element enclosures.

** Denotes remaining catalog number (See Enclosure Chart).

*** Denotes voltage.

OPTIONAL MECHANICAL ACCESSORIES

CATALOG NO.	UPC 6 85360	DESCRIPTION	USE WITH FIXTURE	CARTON QTY	SHIP WT. lbs. (kg)
VWG22	08475 6	Wire Guard for 2 Element Heaters	VRS2/VRP2 (24"L)	1	1 (454)
VWG23	08476 3	Wire Guard for 2 Element Heaters	VRS2/VRP2 (33"L)	1	1.5 (680)
VWG24	08477 0	Wire Guard for 2 Element Heaters	VRS2/VRP2 (46"L)	1	2 (907)
VWG32	08478 7	Wire Guard for 3 Element Heaters	VRS3/VRP3 (24"L)	1	1.5 (680)
VWG33	08479 4	Wire Guard for 3 Element Heaters	VRS3/VRP3 (33"L)	1	2 (907)
VWG34	08480 0	Wire Guard for 3 Element Heaters	VRS3/VRP3 (46"L)	1	2.5 (1134)
VRPATMB	08402 2	Adjustable Tilt Mounting Bracket - VRP Series		1 Set	1 (454)
VRSATMB	08404 6	Adjustable Tilt Mounting Bracket - VRS Series		1 Set	1 (454)
VRPWMB	08403 9	Wall Mounting Bracket - VRP Series		1 Set	6 (2722)
VRSWMB	08405 3	Wall Mounting Bracket - VRS Series		1 Set	6 (2722)

2 ELEMENT ENCLOSURE

LENGTH	MAXIMUM WATTAGE		
	METAL SHEATH	QUARTZ TUBE	QUARTZ LAMP
24"	1700	2000	3200
33"	3000	3000	5000
46"	4000	4000	7300

3 ELEMENT ENCLOSURE

LENGTH	MAXIMUM WATTAGE		
	METAL SHEATH	QUARTZ TUBE	QUARTZ LAMP
24"	2500	3000	4800
33"	4500	4500	7500
46"	6000	6000	10950

SINGLE ELEMENT INFRARED HEATERS

JRK

APPLICATIONS:

Total or supplemental (spot) indoor heating in residential, commercial and light industrial areas, assembly lines, work stations, aircraft hangers, loading docks, and shipping areas.

APPLICATION LIMITATIONS AND PRECAUTIONS:

Hazardous Atmosphere – These heaters are **not** suitable for use in hazardous locations. INDOOR USE ONLY.

MOUNTING CLEARANCES – Maintain minimum clearances of:

- 12" (305 mm) to vertical side walls.
- 36" (914 mm) between heaters mounted side by side. Heaters may be mounted end to end.
- 3" (76 mm) to ceiling.
- 8' (2.4 m) to floor.

Maintain at least 5 ft. (1.5 m), in radiant path, between bottom of heater and combustible material.

CORROSIVE ATMOSPHERES – The high quality finish and steel internal sheet metal parts will give excellent service under most operating conditions, including coastal salt air and most industrial atmospheres. However, the finish is not intended for direct salt spray exposure in marine applications or highly corrosive greenhouse, swimming pool, chemical storage or industrial atmospheres.



FEATURES:

- Painted Steel enclosure with gold anodized 60 degree symmetrical reflector and Quartz Tube element.
- For indoor use, horizontal mounting
- Mounts to ceiling with supplied chains or to wall using the optional VRP-WMB wall mounting bracket.
- High efficiency gold anodized reflector has one of the highest levels for radiating heat energy.
- No moving parts, No noise, No maintenance, easy to install.
- Optional JWG wire guard provides a protective safety screen that helps prevent objects coming in contact with the hot element.

CATALOG NO.	UPC	VOLTS	WATTS	DIMENSIONS			SHIP LENGTH in. (mm)	SHIP WT lbs. (kg).
				REFLECTIVE ANGLE	HEIGHT in. (mm)	WIDTH in. (mm)		
JRK41512	6 85360 08295 0	120	1500	60 Sym	3.375 (86)	5.5 (140)	46 (1168)	9 (4.1)
JRK42020	6 85360 08296 7	208	2000	60 Sym	3.375 (86)	5.5 (140)	46 (1168)	9 (4.1)
JRK42024	6 85360 08297 4	240	2000	60 Sym	3.375 (86)	5.5 (140)	46 (1168)	9 (4.1)
JRK42027	6 85360 08298 1	277	2000	60 Sym	3.375 (86)	5.5 (140)	46 (1168)	9 (4.1)
JRK42034	6 85360 08299 8	347	2000	60 Sym	3.375 (86)	5.5 (140)	46 (1168)	9 (4.1)
JRK42048	6 85360 08301 8	480	2000	60 Sym	3.375 (86)	5.5 (140)	46 (1168)	9 (4.1)
JRK42060	6 85360 08302 5	600	2000	60 Sym	3.375 (86)	5.5 (140)	46 (1168)	9 (4.1)
JRK53020	6 85360 08303 2	208	3000	60 Sym	3.375 (86)	5.5 (140)	57 (1448)	11 (5.0)
JRK53024	6 85360 08304 9	240	3000	60 Sym	3.375 (86)	5.5 (140)	57 (1448)	11 (5.0)
JRK53027	6 85360 08305 6	277	3000	60 Sym	3.375 (86)	5.5 (140)	57 (1448)	11 (5.0)
JRK53034	6 85360 08306 3	347	3000	60 Sym	3.375 (86)	5.5 (140)	57 (1448)	11 (5.0)
JRK53048	6 85360 08308 7	480	3000	60 Sym	3.375 (86)	5.5 (140)	57 (1448)	11 (5.0)
JRK53060	6 85360 08309 4	600	3000	60 Sym	3.375 (86)	5.5 (140)	57 (1448)	11 (5.0)

OPTIONAL MECHANICAL ACCESSORIES

CATALOG NUMBER	UPC 6-85360	DESCRIPTION	USE WITH	CTN. QTY.	SHIP WT. lbs. (kg)
JWG46	13837 4	Wire Guard	JRK4	1	1 (454)
JWG57	13838 1	Wire Guard	JRK5	1	1.5 (680)

PLUG-IN RADIANT HEATERS - FRR

APPLICATIONS:

Designed for supplemental indoor heating in residential and commercial areas; Laundry rooms, Work shops, Toll booths, Garages, Assembly areas, loading and shipping docks and well houses.

- The FRR10512B Series heaters have Quartz Tube elements and three prong cord set.
- Six models, at two voltages, provide a wide range of heating capacities from 500 to 5700 watts (1711 to 19,488 BTU/HR).
- Apply heat only where needed. Convenient ceiling chain mounting and cord set allow custom heating of only the areas being used. No need to waste energy heating the entire room or building.



Model FRR10512B shown.



CATALOG NO.	UPC	VOLTS	WATTS	DIMENSIONS			SHIP LENGTH in. (mm)	SHIP WT. lbs. (kg)
				REFLECTIVE ANGLE	HEIGHT in. (mm)	WIDTH in. (mm)		
FRR10512B	6 85360 88970 6	120	500	60 Sym	4.65	5.75	16.75	8 (3.7)
FRR11012B	6 85360 08790 0	120	1000/500*	60 Sym	3.375 (86)	5.5 (140)	45 (1168)	9 (4.1)

*FRR11012 has switches for 500 or 1000 watt operation. Color: Gold anodized aluminum enclosure.

PLUG-IN RADIANT HEATERS

PMRR

APPLICATIONS:

For commercial and industrial applications with Statuary Bronze painted steel enclosure and gold anodized reflector.



CATALOG NO.	UPC	VOLTS	WATTS	DIMENSIONS			SHIP LENGTH in. (mm)	SHIP WT. lbs. (kg)
				REFLECTIVE ANGLE	HEIGHT in. (mm)	WIDTH in. (mm)		
PMRR41512	6 85360 08239 4	120	1500	60 Sym	3.375 (86)	5.5 (140)	46 (1168)	9 (4.1)
PMRR53024	6 85360 08230 0	240	3000	60 Sym	3.375 (86)	5.5 (140)	57 (1448)	11 (5.0)

The versatility of these heaters is doubled. They can be mounted on the ceiling or they can be mounted on the optional cart and rolled to any location for maximum spot heating effect. Both heaters have switches for full or 50% operation.



APPLICATIONS:

For commercial and industrial applications with Statuary Bronze powder coated steel enclosure and gold anodized reflector.

CATALOG NO.	UPC	VOLTS	WATTS	DIMENSIONS			SHIP LENGTH in. (mm)	SHIP WT. lbs. (kg)
				REFLECTIVE ANGLE	HEIGHT in. (mm)	WIDTH in. (mm)		
FRR22012	6 85360 14784 0	120	2000/1000	60 Sym	3.375 (86)	11 (280)	25 (637)	12 (5.5)
PMRR35724	6 85360 10609 0	240	5700/2850	60 Sym	3.375 (86)	19 (484)	34 (866)	22 (10)

ROLL-AROUND CART ACCESSORIES

CATALOG NO.	UPC	DESCRIPTION	USE WITH	SHIP WT. lbs. (kg)
PMRRCART1	6 85360 14133 6	Roll Around Cart	CHRR22012	11 (5)
PMRRCART2	6 85360 14134 3	Roll Around Cart	CHRR35724	11 (5)
ITEMS BELOW DO NOT INCLUDE CART (Two wheeled cart supplied by others.)				
PMRRCMK1	6 85360 14135 0	Flat bracket hardware	CHRR22012	3 (1.36)
PMRRCMK2	6 85360 14136 7	Formed bracket hardware	CHRR35724	3 (1.36)



INDUSTRIAL INFRARED HEATERS

XRM

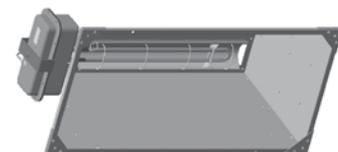
APPLICATIONS:

The higher watt density, industrial infrared heaters are designed to provide a rugged source of heat for use in areas where dependence on air movement is impractical. The XRM Series infrared heaters are designed primarily for permanent mounting on the ceiling, but may be used in any orientation. Waste water treatment plants, loading docks, foundries, auto or marine repair facilities, walkways, assembly areas, enclosed smoking areas, repair stations and indoor or outdoor storage areas are just a few examples of where the XRM Series infrared heaters can be used.

FEATURES:

- Heavy duty u-bend metal sheath heating element.
- Electric heaters convert energy to heat at 100% efficiency.
- UL listed and CSA registered models.
- Optional safety grilles are available.
- 2.0, 4.5, 6.0 and 13.5 Kw heat outputs available.
- Voltages include 208, 240, 277, 480 and 600.
- Single or three phase operation.
- Heater has gasketed wiring compartment that allows units for washdown.

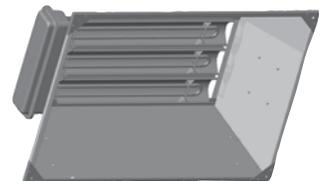
CATALOG NO.	WATTS	VOLTS	PHASE	REFLECTOR ANGLE	ELEMENT TYPE	SHIP WT. (LBS.)		
XRM2081	2,000	208	1	90° Symm	Metal Sheath	18		
XRM2021		240						
XRM2041		480						
XRM2061		600						
XRM4581	4,500	208	1			18		
XRM4521		240						
XRM4541		480						
XRM4561	600							
XRM6083	6,000	208	1 and 3			90° Symm	Metal Sheath	25
XRM6023		240	1 and 3					
XRM6071		277	1					
XRM6043		480	1 and 3					
XRM6063	600	1 and 3						
XRM13583	13,500	208	3	90° Symm	Metal Sheath			55
XRM13523		240	3					
XRM13571		277	1					
XRM13543		480	1 and 3					
XRM13563	600	1 and 3						



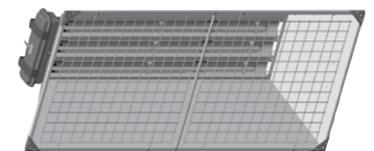
2.0 KW Fixed



4.5 KW Fixed



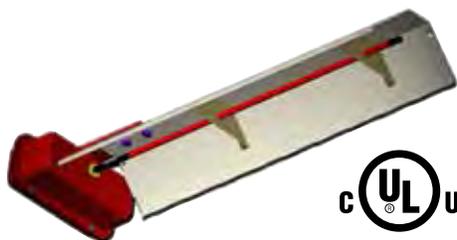
6.0 KW Fixed



13.5 KW Fixed w/Grille

NOTE: See page 76 for infrared accessories.
Ground Fault Detection: Ground fault detection equipment is designed to monitor for any gradual changes in the insulation level due to humidity or mechanical damage as it develops, thus, de-energizing the load to prevent arcing type faults, preventing premature element failure and potential fire damage. As a safety pre-caution it is highly recommended that industrial infrared heaters must be protected by ground fault detection. Failure to comply could result in a building fire or serious equipment damage.

INDUSTRIAL PERMANENT INFRARED HEATERS - YRN



APPLICATIONS:

The YRN Series infrared heater is an excellent choice for spot heating. Often, a series of spot heat areas can be incorporated within the total area to avoid maintaining a higher ambient temperature throughout the building or room. Comfort levels will depend on the intensity of the wattage output. The YRN Series has four wattage outputs to choose from and starting as low as 1KW.

The construction of the YRN Series heater is simple. Aluminum extruded housing keeps the heating element secure while providing a focal point where a highly polished aluminum reflector extends over the assembly to provide a uniform heating pattern.

The heating element connects to a gasketed, moisture resistant terminal enclosure. This allows the heater to be washed down provided the heater is disconnected from the power supply.

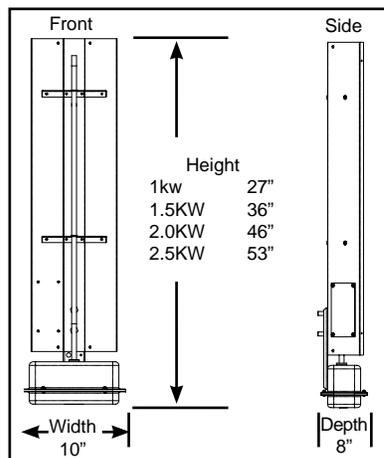
FEATURES:

- Heavy duty straight metal sheath element.
- UL and CUL approved.
- 1.0, 1.5, 2.0 and 2.5 KW heat outputs available.
- Voltages include 120, 208, 240, 277 and 347.
- Single phase operation only.
- Heater can be washed down AFTER BEING DISCONNECTED.
- Safety grilles available.
- Min. Mounting Height: 10 Ft.

CATALOG NO.	WATTS	VOLTS	PHASE	REFLECTOR ANGLE	ELEMENT TYPE	SHIP WT. (LBS.)				
YRN1011	1,000	120	1	90° Symm	Metal Sheath	10				
YRN1081		208								
YRN1021		240								
YRN1511	1,500	120	1			90° Symm	Metal Sheath	15		
YRN1581		208								
YRN1521		240								
YRN1571		277								
YRN1531	347									
YRN2001	2,000	208	1					90° Symm	Metal Sheath	18
YRN2021		240								
YRN2071		277								
YRN2031		347								
YRN2501	2,500	208	1	90° Symm	Metal Sheath					20
YRN2521		240								
YRN2571		277								
YRN2531		347								

NOTE: See page 76 for infrared accessories.

Dimensions



ELECTRIC CONTROL PANELS

APPLICATIONS:

CP Series Power Control Panels are factory wired for efficient installations and include terminal blocks, On-Off selector switches, power ON pilot light, and a 24volt or 120volt control circuit. Panels are available for use in 208, 240, 277, 480 and 600 volt systems, with amp loads up to 40, 50, 100, 200 and 300 amps (inductive load - see chart below for resistive load rating).

FEATURES:

- Nema 1 enclosure, UL / cUL listed and labeled control panel.
- On / Off Control Switch.
- Control Transformer with fused primary and secondary.
- Power ON Pilot Light.



CATALOG NO.	UPC 6 85360	DESCRIPTION	AMP RATING INDUCTIVE LOAD	VOLTAGE	SUPPLY VOLTAGE	CONTROL PANEL DIM.	SHIP WT. (LBS.)
CP404801PT	13893 0	Percentage Timer Panel, One 3 Pole Contactor	40A	208-480V	120V	14.5" H x 14.5" W x 7.5" D	45
CP404801CT	13892 3	Time Delay Controller, One 3 Pole Contactor	40A	208-480V	120V	14.5" H x 14.5" W x 7.5" D	45
CP504801	13900 5	Single 3 Pole Contactor Panel	40A	208-480V	120V	14.5" H x 14.5" W x 7.5" D	45
CP1004801	13880 0	Two 3 Pole Contactor Panel	100A	208-480V	120V	14" H x 15" W x 7.75" D	55
CP2004801	13884 8	Four 3 Pole Contactor Panel	200A	208-480V	120V	31.5" H x 18.2" W x 10" D	65
CP3004801	13888 6	Six 3 Pole Contactor Panel	300A	208-480V	120V	36" H x 30" W x 7" D	70

NOTE: Line fusing supplied by installer.

Percentage Timer Panel for Metal Sheath Heaters only.
Contact factory for 24volt control, 600volt supply, and Nema 4 enclosures.

NOTE: Add 25% to list price for stainless steel (Nema 4x) rating.

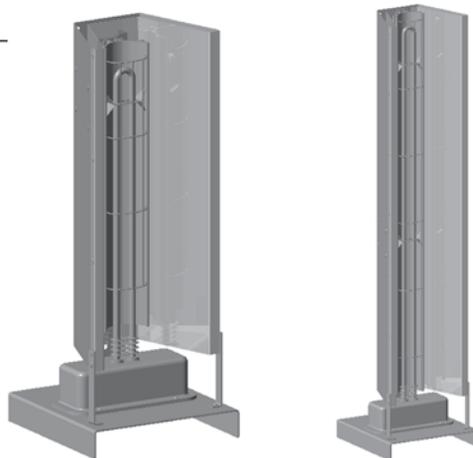
PORTABLE INFRARED HEATERS - WRL

APPLICATIONS:

This type portable low watt density industrial infrared heater is designed to provide clean, odor-free heat for indoor and outdoor work stations and is a good source of heat for use in areas where dependence on air movement is impractical. Loading docks, walkways, assembly areas, enclosed smoking areas, repair stations and storage areas are just a few examples of where WRL Series infrared heaters are often used.

FEATURES:

- Heavy duty hairpin metal sheath heating element.
- 1.5, 2.0 and 4.5 Kw heat output available.
- Voltages include 120, 208, 240, 277, 480 and 600.
- Single phase operation only.
- 1500 watt 120 volt model has attached cord and plug.
- Sturdy base assembly provides tip resistant design.



1.5KW Portable

4.5KW Portable

CATALOG NO.	UPC	WATTS	VOLTS	PHASE	REFLECTOR ANGLE	ELEMENT TYPE	SHIP WT. (LBS.)
WRL1511	6 85360 14354 5	1500	120	1	90° Symm	Metal Sheath	15

Note: This hand carry model includes cord and standard 2-prong grounding plug.

CATALOG NO.	UPC	WATTS	VOLTS	PHASE	REFLECTOR ANGLE	ELEMENT TYPE	SHIP WT. (LBS.)
WRL2081	6 85360 14355 2	2000	208	1	90° Symm	Metal Sheath	18
WRL2021	6 85360 14537 2		240				
WRL2071	6 85360 14538 9		277				
WRL2041	6 85360 14539 6		480				
WRL2061	6 85360 14540 2		600				
WRL4581	6 85360 14541 9	4500	208	1	90° Symm	Metal Sheath	25
WRL4521	6 85360 14542 6		240				
WRL4571	6 85360 14543 3		277				
WRL4541	6 85360 14544 0		480				
WRL4561	6 85360 14545 7		600				

NOTE: See page 76 for optional cordsets and plug options

INDUSTRIAL INFRARED HEATERS

ACCESSORIES

CORD AND PLUG KITS FOR INDUSTRIAL M, N, AND L SERIES HEATERS								
MODEL NO.	kW	VOLTS	PHASE	AMPS	WIRE SIZE	POWER CORDS	PLUGS LOCKING	NON-LOCKING
L2081B	2	208	1	9.6	14/3	CS25143	LPS25083	NPS25650
L2021B	2	240	1	8.3	14/3	CS25143	LPS25083	NPS25650
L2071B	2	277	1	7.2	14/3	CS25143	LPS25083	
L2041B	2	480	1	4.2	14/3	CS25143	LPS25083	
L2061B	2	600	1	3.3	14/3	CS25143	LPS25083	
M4581B	4.5	208	1	21.6	12/3	CS25123	LPS25083	NPS25650
M4521B	4.5	240	1	18.8	12/3	CS25123	LPS25083	NPS25650
M4541B	4.5	480	1	9.4	14/3	CS25143	LPS25083	
M4561B	4.5	600	1	7.5	14/3	CS25143	LPS25083	
M6083B	6	208	1	28.8	6/3	CS25063	LPS25083	NPS25650
M6083B	6	208	3	16.7	6/4	CS25064	LPS25124	NPS1550
M6023B	6	240	1	25.0	6/3	CS25063	LPS25083	NPS25650
M6023B	6	240	3	14.5	6/4	CS25064	LPS25124	NPS1550
M6071B	6	277	1	21.7	6/3	CS25063	LPS25083	
M6043B	6	480	1	12.5	6/3	CS25063	LPS25083	
M6043B	6	480	3	7.2	6/4	CS25064	LPS25104	
M6063B	6	600	1	10.0	6/3	CS25063	LPS25083	
M6063B	6	600	3	5.8	6/4	CS25064	LPS25084	
M13583B	13.5	208	3	37.5	6/4	CS25064	LPS25083	NPS1550
M13523B	13.5	240	3	32.5	6/4	CS25064	LPS25083	NPS1550
M13571B	13.5	277	1	48.7	6/3	CS25063	LPS25083	
M13543B	13.5	480	1	28.1	6/3	CS25063	LPS25083	
M13543B	13.5	480	3	16.3	6/4	CS25064	LPS25104	
M13563B	13.5	600	1	22.5	6/3	CS25063	LPS25083	
M13563B	13.5	600	3	13.0	6/4	CS25062	LPS25084	

CORD AND PLUG KITS FOR ELECTRIC BLOWER HEATER									
MODEL NO.	kW	VOLTS	PHASE	AMPS	WIRE SIZE	25 FT CORD SET	LOCKING TYPE	NON-LOCKING TYPE	SHIP WT. (LBS.)
BDH1021A	10	240	1	39.6	6/3	SCS10063 (10ft. long)	-	Included	18
BDH1583A	15	208	3	41.8	6/4	SCS25064	LPS25064	-	20
BDH1521A	15	240	1	62.5	4/3	SCS25043	-	-	22
BDH1523A	15	240	3	36.3	6/4	SCS25064	LPS25064	NPS1550	20
BDH1543A	15	480	1	31.2	6/4	SCS25064	LPS25064	NPS1550	20
			3	18.1	12/4	SCS25124	LPS25104		10
BDH3043A	30	480	3	36.3	6/4	SCS25064		-	20

Models designated 1 and 3 phase can be field wired for single phase operation.

XRM SAFETY GRILLES, HANGING KITS, AND ROLLAROUND CART KITS			
MODEL NO.	UPC	DESCRIPTION	SHIP WT. (LBS.)
XRMWG2	6 85360 14332 3	Safety Grille Kit for XRM 2KW heaters	3
XRMWG45	6 85360 14333 0	Safety Grille Kit for XRM 4.5KW heaters	3
XRMWG60	6 85360 14334 7	Safety Grille Kit for XRM 6KW heaters	4
XRMWG135	6 85360 14335 4	Safety Grille Kit for XRM 13.5KW heaters	14
XRMHK	6 85360 14336 1	Hanging Kit to mount XRM or YRN heaters, includes chain and hooks	2
XRM45	6 85360 14337 8	Rollaround Cart kit for 4.5KW XRM heaters (Includes safety grilles)	7
XRM60	6 85360 14338 5	Rollaround Cart kit for 6.0KW XRM heaters (Includes safety grilles)	8
XRM135	6 85360 14339 2	Rollaround Cart kit for 13.5KW XRM heaters (Includes safety grilles)	8

YRN SAFETY GRILLES			
MODEL NO.	UPC	DESCRIPTION	SHIP WT. (LBS.)
YRNWG01	6 85360 14356 9	Safety Grille Kit for YRN 1KW heaters	3
YRNWG105	6 85360 14357 6	Safety Grille Kit for YRN 1.5KW heaters	3
YRNWG200	6 85360 14358 3	Safety Grille Kit for YRN 2KW heaters	7
YRNWG250	6 85360 14359 0	Safety Grille Kit for YRN 2.5KW heaters	10

CONTROL ACCESSORIES FOR INDUSTRIAL INFRARED HEATERS					
MODEL NO.	UPC 6 85360	DESCRIPTION	kW MODELS	AVAILABILITY	SHIP WT. (LBS.)
PDS60050	15233 2	Power Disconnect Kit for Fixed or Portable (M Series)	ALL	S0	8
TOS240	15166 3	Tipover Switch for Fixed or Portable (M Series) 240V only	6 or 13.5	NS	15
TOS480	15167 0	Tipover Switch for Fixed or Portable (M Series) 480V only	6 or 13.5	NS	15
WMGF240	15234 9	Wall mounted Ground Fault Detection for 240V Nema 4	ALL	NS	17
WMGF480	15235 6	Wall mounted Ground Fault Detection for 480V Nema 4	ALL	NS	17

PORTABLE RADIANT CONVECTION HEATER - WPC1500



- Efficient multi-watt design allows user to choose between three wattage levels for greater comfort control and energy savings.
- Removable wheel kit allows unit to be wall mounted near electrical outlet.
- Positive OFF switch.
- Easy to use adjustable thermostat.
- Tip-over switch and linear limit for added safety.
- Three prong grounded cordset.



MODEL	VOLTS	WATTS	AMPS	Heater Dimensions			SHIP WT. (LBS.)
				HEIGHT	WIDTH	DEPTH	
WPC1500	120	1500 / 1000 / 500	12.5 / 8.3 / 4.2	21"	30"	4"	27

RADIANT PLUG-IN UNDER DESK HEATER - 202SL



An ideal, economical, safe way to provide warmth for cold secretaries, bank tellers, receptionists, cashiers, accountants, architects, engineers — in fact, anyone who sits at a desk, counter or table whether at work or at home! The 200 Series gives you personalized warmth just where it's needed - when it's needed. This amazing heater costs just one or two cents per hour to operate... based on your local electricity rate.

Note: Includes 3-Prong cord and plug.



CATALOG NO.	UPC	WATTS	AMPS	VOLT	SIZE	SHIP WT. (LBS.)
202SLB	0 98319 88965 2	170	1.4	120	15" x 22" x 1"	8
MC202SLR	Master Carton (6 pcs)	170	1.4	120	17" x 27" x 10"	50
APT2	0 98319 88964	5	Portable Thermostat			

PORTABLE HEATERS

PORTABLE FAN-FORCED UTILITY HEATER - MMHD



- Two heat settings for a full range of comfort
- Automatic thermostat.
- Fan only feature to circulate air during non-heating periods.
- Tip over safety switch and thermal limit.
- Built-in carrying handle and guards.
- Safety limits.
- MMHD has grounded cord and plug.
- 2 year warranty.

CATALOG NO.	UPC NO.	WATTS	AMPS	VOLTS	BTUH	SHIP WT. (LBS.)
MMHD1502T	0 98319 86168 9	1500	12.5	120	5120	9.2
		1300	10.8	120	4437	

PORTABLE FAN-FORCED/RADIANT UTILITY HEATER - MCM

- 3 heat settings:
 - 600W radiant
 - 900W fan-forced
 - 1500W fan-forced and radiant.
- Chromed safety grill.
- Automatic thermostat.
- Ceramic core element.
- Tip over safety switch and thermal limit.
- 2 year warranty.

CATALOG NO.	UPC NO.	WATTS	AMPS	VOLTS	BTUH	SHIP WT. (LBS.)
MCM1503	0 98319 86166 5	1500	12.5	120	5120	9
		900	7.5	120	3072	
		600	5	120	2048	



PORTABLE UNIT HEATER - QPH4A

- Easy to carry with built-in handles.
- Two heat settings: 9100 BTUs (2667 Watts), 13650 BTUs (4000 Watts).
- Permanently lubricated, unit-bearing fan moto.r
- Three-way bracket lets you stand unit on floor or other flat surface, or mount to ceiling or wall.
- Adjustable thermostat to maintain heating comfort levels.
- Operates on 240 volts. Comes with 6' cord.
- 5-year limited warranty on heating elements.



CATALOG NO.	UPC NO.	WATTS	AMPS	VOLTS	BTUH	SHIP WT. (LBS.)
QPH4A	0 98319 86114 6	Low - 2667/2000	20	240/208	9,102/9,526	25
		High - 4000/3000	20	240/208	13,652/10,239	

HEATERS

PORTABLE ELECTRIC HEATER - PT268

- Adjustable, automatic thermostat.
- Efficient fan-forced heat.
- Safety overload switch with caution light.
- Heater automatically shuts off if unit overheats.
- Live power signal light.
- 6' Heavy-duty cord.
- Full one-year warranty.



PT268
PLUG TYPE
20 Amp 240V
NEMA #6-20P

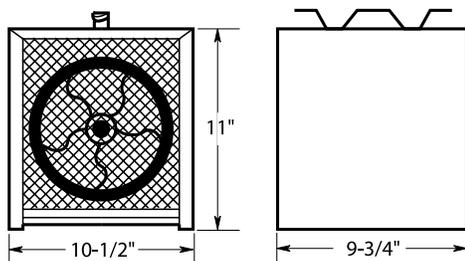


CATALOG NUMBER	UPC NUMBER	VOLTS	WATTS	AMPS	BTU/HR	WT. (LBS.)	Dimensions H x W x L
PT268	6 85360 09646 9	240	4000	16.7	13,648	12	16.25" x 15.5" x 11.5"

CONTRACTOR HEATER - BRH

For construction job sites, commercial workshops and other large unheated areas.

- Built-in thermostat.
- Safety high temperature limit.
- Industrial finger proof, steel intake and discharge grilles.
- Steel spiral fin brazed to metal sheathed element for maximum heat transfer.
- 6' Heavy-duty cord.
- Built-in handle/cord storage.
- Permanently lubricated motor.
- BRH562 has continuous fan feature.
- Red finish — Portable — Quiet.



BRH402
PLUG TYPE
20 Amp 240V
NEMA #6-20P



BRH562
PLUG TYPE
30 Amp 240V
NEMA #6-30P

CATALOG NO.	UPC NO.	WATTS	AMPS	VOLTS	BTUH	SHIP WT. (LBS.)
BRH402	0 98319 86200 6	4000/3000	16.7/14.1	240/208	13,650/10,238	17
BRH562	0 98319 86202 0	5600/4200	23.3/20.2	240/208	19,110/14,333	19

HEATERS

DIGITAL HYDRONIC PORTABLE - LFH

- Unique portable electric baseboard with Proportional control
 - Unit heats only when heat is required.
- Easy to operate electronic digital display
 - LCD with backlight - three button control.
- Proportional Digital control
 - Five levels of heat output that generates heat only when needed.
- Linear high temperature safety cutout
 - Checks the entire length of element and will automatically shut off heater in the event of accidental air blockage.
- Brand you know and trust
 - 10-year limited warranty on element
 - Over four decades of electric hydronic experience.



CATALOG NO.	UPC NO.	WATTS	AMPS	VOLTS	BTUH	SHIP WT. (LBS.)
LFH1502P	6 85360 15126 7	200-1500	1.6 - 12.5	120	682/5118	27

PORTABLE ELECTRIC CONVECTOR HEATERS - FBE



45" L x 7-1/2" H x 5-1/2" D



- Don't waste energy and heat rooms you aren't using. Maintain individual room control with portable electric convector heat — and get heat only in the places you want.
- 100% energy efficient. Heat is dissipated by large fins into a strong convection flow. This delivers every bit of available heat.
- Distinctively designed. High-impact Lexan® end panels with built-in handles. Low profile design enhances the unique appearance and add to the units overall stability.
- Fills entire room with even comfort. No cold spots. No hot spots. The complete heating cycle fills your entire room with uniform, gentle floor-to-ceiling warmth and comfort.
- Safety thermal cutout protection. Linear high temperature cutout safety checks the entire length of heater and will automatically shut off heater a in the event of accidental air blockage.
- 2-year limited warranty.

CATALOG NO.	UPC NO.	WATTS	AMPS	VOLTS	BTUH	SHIP WT. (LBS.)
FBE15002	0 98319 86156 6	1000/1500	8.3/12.5	120	3413/5120	11

PORTABLE ELECTRIC HYDRONIC HEATERS - FHP

- Save energy with zonal heating
 - Efficient and economical room-by-room heating.
- Quiet, gentle, safe heat
 - Safety grill and low unit surface temperatures for safe handling.
 - Five levels of heat output that generates heat only when needed.
- Floor-to-ceiling comfort
 - Gentle heating cycle fills entire room with soft even warmth.
 - Hydronic elements continue to heat between on / off cycles
- Brand you know and trust
 - 10-year limited warranty on element
 - over four decades of electric hydronic experience.



CATALOG NO.	UPC NO.	WATTS	AMPS	VOLTS	BTUH	SHIP WT. (LBS.)
FHP0750T	6 85360 1610 2	120	6.3	120	2560	11
FHP1500T	6 85360 1607 8	120	12.5	120	5120	11

DIGITAL THERMOSTATS & CONTROLS

HEATER TYPE	2500 SERIES BASEBOARD	HBB/OBD BASEBOARD	LARGE WALL HEATER	SMALL WALL HEATER	SMALL WALL HEATER	REGISTER WALL HEATER	TOE SPACE HEATER
Heater Series	2500 Series QMKS	HBB CBD	AWH CWH LFK	CWHDSAG CWHDS	CRA SED 1235 & 2400	GFR, QFG	QTS
Refer to the Notes Section where specified	See Note 1		See Note 2	See Note 3	See Note 4		See Note 6
THERMOSTATS BELOW ARE ELECTRONIC WITH DIGITAL DISPLAY.							
TH110DPP	Yes	Yes	The electronic thermostats are not recommended for this heater	No	See model selection chart	See model selection chart	Yes
TH300024	Yes	Yes		No			Yes
TH300024	Yes	Yes		No			Yes
TH36004	Yes	Yes		No			Yes
TH522D1003	No	No		No			No
THERMOSTATS LISTED BELOW ARE OF MECHANICAL TYPE AND WANT TO CONTROL TEMPERATURE SETTING MANUALLY							
MS26	Yes	Yes	See model selection chart the recommended thermostat	No	See model selection chart	See model selection chart	Yes
MD26	Yes	Yes		No			Yes
M601W	Yes	Yes		Yes			Yes
M601TPW	Yes	Yes		Yes			Yes
M602W	Yes	Yes		No			Yes
M602TPW	Yes	Yes		No			Yes
M611W	Yes	Yes		No			Yes
M612W	Yes	Yes					
M600S	These stats are used when there are two elements to control. Two-stage operation and modulating type. Not normally used for above products.						
M600MTP							
T100	Yes	Yes	See model selection chart the recommended thermostat	Yes	See model selection chart	See model selection chart	Yes
T200	Yes	Yes		No			Yes
WR651	Yes	Yes		No			Yes
WR661	Yes	Yes		No			Yes
THERMOSTATS BELOW ARE MORE COMMERCIAL / INDUSTRIAL AND NOT NORMALLY USED ON RESIDENTIAL APPLICATIONS							
WT11A	No	Yes	See model selection chart the recommended thermostat	No	No	No	No
WT12A	No	Yes		No	No	No	No
WR80	Yes	Yes		No	No	No	No
WR80EP	No	No		No	No	No	No
THERMOSTATS BELOW ARE LOW VOLTAGE (18 TO 26 VOLTS) SEE NOTE #6 BELOW.							
T8775A1009	Yes	Yes	No	No	No	No	No
T8775C1005	Yes	Yes	No	No	No	No	No
ELECTRONIC TRANSFORMER RELAYS WITH BUILT-IN TRANSFORMER.							
LTR1120							
LTR208240							
LTR1277							
LTR2240							

† For infrared type heaters, controls may be different for the type of element used. See your technical service person for recommendation.

Note 1: Electronic thermostats have amperage minimums and each model has different voltage requirements, please check catalog thermostat specifications.

Note 2: FRC, FRA, and K Series models require the removal of the internal thermostat and wire wall thermostat in its place for proper fan operation. See model selection for specific thermostat.

Note 3: SRADSAG and SRADS Series models require the removal of the internal thermostat from unit. Wire wall thermostat for proper fan operation. See model selection for specific thermostats.

Note 4: CRA, SED, 1235, and 2400 Series models require the removal of the internal thermostat from unit. Wire wall thermostat for proper fan operation. See model selection for specific thermostats.

Note 5: Low voltage thermostats operate in conjunction with low voltage control systems using relays. Compatible with all standard 24V two wire thermostats. Can accept analog signal of 0-10 VDC.

Note 6: The 1100watt units can use either single pole or double stats. The higher wattage, 1500watt, must use a double pole stat. (3 conductors from stat to heater) See website for further details.

DIGITAL THERMOSTATS & CONTROLS (CONT.)

CEILING INDUSTRIAL	UNIT HEATER	CABINET UNIT HEATER	PLENUM HEATER	ALUMINUM AND STEEL CONVECTORS	COVE RADIANT	CP RADIANT	RP & RS INFRAREDHEATERS*	RADIANT
FFCH QFF QCH	HUHAA UH	CUH900	BPH	All Series	RCC	CP	RP & RS	M, N, and L
See note 7	See note 8			See note 8				
THERMOSTATS BELOW ARE ELECTRONIC WITH DIGITAL DISPLAY								
See model selection chart.	Contact Tech Services for assistance	Yes	No	Contact Tech Services for assistance	Yes	Yes	†	†
		No	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		No	Yes		No	No	†	†
THERMOSTATS LISTED BELOW ARE OF MECHANICAL TYPE AND WANT TO CONTROL TEMPERATURE SETTING MANUALLY								
See model selection chart.	Contact Tech Services for assistance	No	No	Contact Tech Services for assistance	Yes	Yes	†	†
		No	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
THERMOSTATS BELOW ARE MORE COMMERCIAL / INDUSTRIAL AND NOT NORMALLY USED ON RESIDENTIAL APPLICATIONS								
See model selection chart.	Contact Tech Services for assistance	Yes	No	Contact Tech Services for assistance	Yes	Yes	†	†
		Yes	No		Yes	Yes	†	†
		No	No		Yes	Yes	†	†
		No	No		Yes	Yes	†	†
THERMOSTATS BELOW ARE MORE COMMERCIAL / INDUSTRIAL AND NOT NORMALLY USED ON RESIDENTIAL APPLICATIONS								
Yes	Contact Tech Services for assistance	Yes	No	Contact Tech Services for assistance	No	Yes	†	†
No		Yes	No		No	Yes	†	†
Yes		Yes	No		Yes	Yes	†	†
No		No	No		No	†	†	
THERMOSTATS BELOW ARE LOW VOLTAGE (18 TO 26 VOLTS) SEE NOTE #6 BELOW								
No	No	Yes	No	Yes	Yes	Yes	†	†
No	No	Yes	Yes	Yes	Yes	Yes	†	†
ELECTRONIC TRANSFORMER RELAYS WITH BUILT-IN TRANSFORMER								
Yes	Yes	Yes	No	Yes	Yes	Yes	†	†

† For infrared type heaters, controls may be different for the type of element used. See your technical service person for recommendation.

Note 7: FFCH and EFF Series models require different thermostats based on internal wiring. Wire wall thermostat for proper fan operation. See model selection for specific thermostats. Can not use digital thermostats with this unit.

Note 8: Due to the complexity of wiring variations for remote wall thermostats with these products, we recommend that you contact Technical Services for assistance.

Note 9: Remove internal thermostat and wire wall thermostat in its place for proper fan operation.

Note 10: Thermostat wire to the two white wires on the heater.

Note 11: Wire wall thermostats as directed in the Installation Manual for proper fan operation.

THERMOSTATS

ELECTRONIC DIGITAL LINE VOLTAGE



CATALOG NUMBER	TH300024	TH36004	TH400024	TH110DPP
Action	Triac: Silent Operation	Electronic Switch	Triac: Silent Operation	Microprocessor
Type	12.5A Resistive 2 wire SPST	15 A Resistive 4 wire DPST	16.7A Resistive 2 wire SPST	16.7 A Resistive 4 wire DPST
Watt Rating	Minimum: 2 amp load	No minimum load	Minimum: 2 amp load	No minimum load
120V	1500 watts	n/a	2000 watts	n/a
208V	n/a	n/a	n/a	3000 watts
240V	3000 watts	3600 watts	4000 watts	4000 watts
277V	n/a	n/a	n/a	n/a
Pilot Duty	No	No	No	No
Range (°F)	40°F to 85°F	40°F to 85°F	40°F to 85°F	40°F to 85°F
Differential	Accuracy: Within +/- 0.27°F	Accuracy: Within 1°F of setpoint	Accuracy: Within +/- 0.27°F	Accuracy: Within 1°F of setpoint
FEATURES:	Digital, non-programmable 12.5amp model delivers exceptional accuracy. Ideal for radiant ceiling panels, and baseboard. Not for fan-forced heaters.	Digital, non-programmable model delivers exceptional accuracy. Ideal for radiant ceiling panels, and baseboard. Can be used for fan-forced heaters.	Digital, programmable high capacity model delivers exceptional accuracy. Ideal for radiant ceiling panels, and baseboard. Can be used for fan-forced heaters and resistive loads.	Digital, programmable model delivers exceptional accuracy. Ideal for radiant ceiling panels, and baseboard. Can be used for fan-forced heaters.

ELECTRONIC DIGITAL LOW VOLTAGE



CATALOG NUMBER	T8775A1009	T8775C1005	TH5220D1003	LT186F01
Action	Electronic Switch	Electronic Switch	Electronic Switch	Microprocessor
Type	24 volt .015 -1.0A @ 30V 2-wire	24 volt .015 -1.0A @ 30V 2-wire	24 volt .015 -1.0A @ 30V 5-wire	Wall thermistor
Watt Rating				
120V	n/a	n/a	n/a	22A
208V	n/a	n/a	n/a	22A
240V	n/a	n/a	n/a	22A
277V	n/a	n/a	n/a	19A
Pilot Duty	24VAC	24VAC	24VAC	n/a
Range (°F)	40°F to 90°F	40°F to 90°F	40°F to 90°F	40°F to 90°F
Differential	Accuracy: Within 1°F of setpoint	Accuracy: Within 1°F of setpoint	Accuracy: Within 1°F of set	Accuracy Within 1°F of setpoint
FEATURES:	Digital, non-programmable 24 volt "Round" model delivers exceptional accuracy. (Heat Only)	Digital, non-programmable 24 volt "Round" model delivers exceptional accuracy. (Heat and Cool)	Digital, 24volt programmable 2 stage 5-7 wire heat and cool thermostat. One touch temperature control with exceptional accuracy. Ideal for plenum heaters, and HVAC systems.	Proportional and Integral non-programmable electronic room sensor thermostat with set point capability, providing exceptional accuracy. Transmits actual temperature to a LTR relay.

THERMOSTATS

LINE VOLTAGE



CATALOG NUMBER	MS26	MD26	M601W	M602TPW	M601TPW	M602TPW	M611W	M612W
Action	Snap Action		Snap Action		Snap Action		Snap Action	
Type	SPST	DPST	SPST	DPST	SPST	DPST	SPST	DPST
Amp Rating	Model MD26 has Positive OFF		Model M602W has Positive OFF		Model M602TPW has Positive OFF		Model M612W has Positive OFF	
120V	22A		22A		22A		22A	
208V	22A		22A		22A		22A	
240V	22A		22A		22A		22A	
277V	18A		18A		18A		18A	
Pilot Duty	No		Yes 125VA		Yes 125VA		Yes 125VA	
Range (°F)	50°F to 80°F		45°F to 75°F		45°F to 75°F		45°F to 75°F	
Differential	+/- 5°F		+/- 4°F		+/- 4°F		+/- 2 1/2°F	
FEATURES:	These economy thermostats are the snap action type that are used in apartment construction. Good thermostat for its value. Ideal for radiant cover heaters and baseboard.		These bi-metal snap action thermostats are sensitive. Large knob allow for easy adjustment.		Same as M601W and M602W except the cover mounting cover offer tamper proof feature.		Built-in heat anticipator assures closer control of room temperature. These snap action thermostats are more sensitive.	

LINE VOLTAGE



CATALOG NUMBER	M600MTP	M600S	T100	T200	WR651	WR661
Action	Modulation (2 stage)	Simultaneous switching (double ckt)	Snap Action with Heat Anticipator		Creep (Hydraulic) Action	
Type	DPST		SPST	DPST	SPST	DPST
Watt Rating						
120V	22A	22A	22A		22A	
208V	22A	22A	22A		22A	
240V	22A	22A	22A		22A	
277V	18A	18A	18A		na	
Pilot Duty	Yes 125VA	Yes 125VA	Yes 125VA		No	
Range (°F)	50°F to 80°F	50°F to 80°F	50°F to 90°F		40°F to 85°F	
Differential	Accuracy: Within 3°F of setpoint	Accuracy: Within 3°F of setpoint	+/- 2 1/2°F		+/- 2°F	
FEATURES:	One thermostat controls two separate heating circuits and reduces input during light load periods. Second stage activates when temperature drops to approx. 1-1/2°F below the first stage turn-ON temperature.	Simultaneous control of two heating loads. Used where the total load slightly exceeds capacity of a single switch, where two thermostats are impractical. Both switches are calibrated to operate at approx. the same temperature.	Line voltage thermostat with everything; Performance, reliability, durability, and a large knob. Built-in heat anticipation assures close temperature regulation. Large knob for easy rotation.		Extra-sensitive element in control knob senses radiant heat as well as air temperature for ultimate control. May cause slight radio or television interference in outlying fringe areas.	

SPECIALTY CONTROLS



CAT. NO.	VOLT	AMPS
LTR1120	120V	22A
LTR208240	208/240V	22A
LTR1277	277V	19A

CATALOG NUMBER	WR80	JC80EP	WT11A	WT12A	LTR SERIES
Action	Snap Action Switch	Snap Action Switch	Positive snap action switch		Electronic Relays
Type	SPST	SPST	SPDT		Microprocessor base design
Amp Rating			Nema 4X rated		These electronic relays have been designed for silent control of high voltage resistive loads from a low voltage control circuit. Inductive motor loads can also be controlled (120V to 240V only). Compatible with 24V thermostats and accepts analog signal of 0-10V DC.
120V	25A	25A	25A	n/a	
208V	22A	22A	25A		
240V	22A	22A	25A		
277V	18A	18A	22A		
Pilot Duty	Yes 125VA	Yes 125VA	Yes 125VA		
Range (°F)	40°F to 90°F	40°F to 90°F	40°F to 110°F		
Differential	+/- 3°F	+/- 3°F	+/- 2 1/2°F		
FEATURES:	Rugged design for garages, factories, warehouses and similar commercial and industrial installations. The WR80 can control several heaters by using an external contractor.	This explosion proof room thermostat is suitable for Class 1, Group D and Class II, Groups E, F, and G locations.	Nema 4X weatherproof enclosure. The control has a SPDT output and can be used for heating or cooling (ventilation) Multi-positional mounting offers flexibility in new or existing installations.		The relays can be used with model LT186F01 electronic room sensor, providing proportional and integral control. Also can be tied to building management systems.



CATALOG NUMBER	LTR2240	TC1	M600THW	M600THB
Action	Dual Silent Relay	Enclosure protection for thermostats.	M600THW -White thermostat cover with built-in thermometer. For M600 Series stats.	
Type	2 single pole switches	Material: Impact resistant polycarbonate. Clear. Dimensions are: 7" L X 4.28" H X 2.75" D		
Watt Rating	Resistive Inductive	Thermostat enclosure kits are designed to protect the thermostat. Circulating slots allow airflow for proper operation. Guards are lockable and a key is provided to maintain security.	M600THB - Beige thermostat cover with built-in thermometer. For M600 Series stats.	
120V	n/a			
208V	25A 1HP, 8.8A			
240V	25A 1HP, 8A			
277V	N/A			
Pilot Duty	Yes 125VA	Minimum 50 pcs Allow 4 weeks.		
Range (°F)	Can be operate in 20 to 140°F			
Differential	Accuracy: Within 1.5°F of setpoint			
FEATURES:	This dual level temperature relay may be used to operate two separate heating loads by means of a single low voltage thermostat. Relay is mounted in an enclosure.			

THERMOSTAT MODEL SELECTION

FROM NOTES 2, 3, 4 AND 7 (SEE PAGE 82)

HEATER MODEL	WALL THERMOSTAT
FRC1512	M601W
FRC3180	M601W
FRC4020	M601W
FRC4024	M601W
FRC4027	M601W
FRC3027	M601W
FRC4820	M601W
FRC4824	M601W
FRC4827	M601W
FRC40203	NA
FRC40243	NA
NOTE: See note 10, pg. 82.	
SRA1012DSAG	M601W
SRA1512DSAG	M601W
SRA1812DSAG	M601W
SRA2024DSAG	M601W
SRA2027DSAG	M601W
SRA1527DSAG	M601W
SRA2020DSAG	M601W
NOTE: See note 10, pg. 82.	
SRA1012DS	M601W
SRA1512DS	M601W
SRA1812DS	M601W
SRA2024DS	M601W
SRA2027DS	M601W
SRA1527DS	M601W
SRA2020DS	M601W
NOTE: See note 10, pg. 82.	
FRA1512	M602W
FRA1812	M602W
FRA4024	M602W
FRA4027	M602W
FRA3027	M602W
FRA4020	M602W
FRA4824	M602W
FRA4827	M602W
FRA4820	NA
NOTE: See note 10, pg. 82.	
GFR1500	TH400024, M601W, M611W, T100, WR651
GFR2004	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
GFR2404	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
GFR1500T2	TH400024, M601W, M611W, T100, WR651
GFR2004T2	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
GFR2404T2	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
QFG1512IFM	TH400024, M601W, M611W, T100, WR651
QFG2024IFM	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
QFG2224IFM	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
QFG2228IF	M602W, M612W, T200, WR661
QFG1512T2M	TH400024, M601W, M611W, T100, WR651
QFG2024T2M	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
QFG2224T2M	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661

HEATER MODEL	THERMOSTAT
VFK151	M602W
VFK204	M602W
VFK304	M602W
VFK404	M602W
VFK484	M602W
NOTE: See note 10, pg. 82.	
SED1012C	TH400024, TH300024, M601W, M611W, T100, WR651
SED1024C	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
SED1512	TH400024, TH300024, M601W, M611W, T100, WR651
SED2024	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
ECP1024	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
ECP1524	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
CRA1512IF	TH400024, M601W, M611W, T100, WR651
CRA2028IF	M602W, M612W, T200, WR661
CRA2024IF	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
CRA2224IF	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
CRA1512T2	TH400024, M601W, M611W, T100, WR651
CRA2024T2	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
CRA2224T2	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
1235	TH400024, M601W, M611W, T100, WR651
1235P	TH400024, M601W, M611W, T100, WR651
2435	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
2435P	TH110DPP, TH400024, TH300024, M602W, M612W, T200, WR661
FFCH548	MS26, M601W
FFCH542	TH400024, MS26, M601W
FFCH547	MS26, M601W
FFCH558	MS26, M601W
FFCH552	MS26, M601W
FFCH557	MS26, M601W
NOTE: See note 11, pg. 82.	
QFF1500	TH400024, MS26, M601W
QFF3007	MS26, M601W
QFF4008	MS26, M601W
QFF4004	TH400024, MS26, M601W
QFF4007	MS26, M601W
QFF4804	MS26, M601W
QFF4807	MS26, M601W
NOTE: See note 12, pg. 82.	
QCH1101	TH400024, TH300024, M601W, MS26
QCH1151	TH400024, M601W, MS26
QCH1202	TH400024, TH300024, M601W, MS26
QCH1207	TH400024, TH300024, M601W, MS26
NOTE: See note 12, pg. 82.	

HEAT RECOVERY CEILING FANS

Heat Destratification

CUT DOWN YOUR HEATING AND COOLING

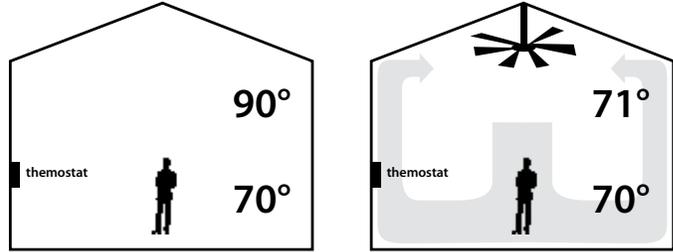
BILLS BETWEEN 1% - 43%*



REDUCE HEATING BILLS

THE HEAT-DROPPER® CONCEPT AND HOW IT WORKS

WINTER-Recovers wasted heat by eliminating heat stratification. Trapped warm air at the ceiling caused by natural heat rise and poor air circulation is equalized by the movement of the massive blade span. Thus ceiling to floor temperature is equalized. With a heat cost savings of 30 percent, the LEADING EDGE fan system can pay for itself in one year. The elimination of cold spots increases employee productivity and comfort.



SUMMER-General air recirculation in non air-conditioned buildings creates a cooling breeze and a "Wind Chill Factor" providing evaporation cooling of the skin surface dropping skin temperature by 6 degrees. The LEADING EDGE fan system supplements air-conditioned buildings by allowing the thermostat settings to be 8 degrees higher. You'll feel the coolness of 72 degrees with the thermostat set on 80 degrees - an incomparable energy savings. Additional advantages, eliminates mold and mildew caused by stagnant air, perfect for high humidity areas. No other fan has our higher air velocity capabilities. Small fans do not develop sufficient CFM to be effective in warm weather.

* Based on ASHRAE "Saving Heating Costs in Warehouses" study

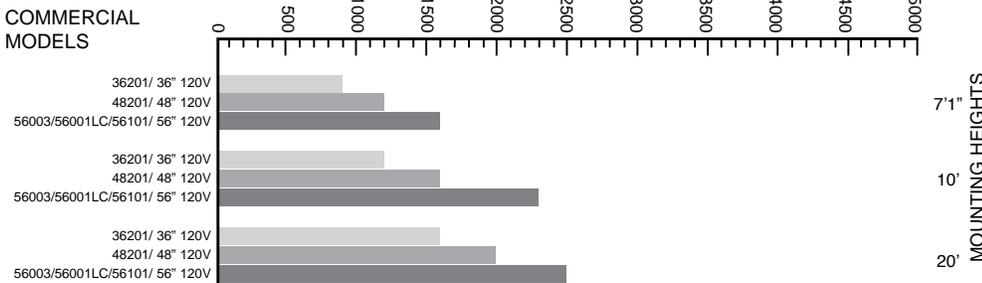
Leading Edge treats ceiling fans as a system, not as single unit – our fans provide larger area of coverage than competition; therefore require fewer fans to perform the same function. Furthermore, heavy duty design allows considerably save to maintenance or replacement costs. Substantial savings are realized on the total installed costs of the system on a per square foot basis, which can be calculated via the following formula:

Total square foot area to be covered:	A _____ ft ²
Area coverage per fan:	B _____ ft ²
Total fan units required:	A / B = C _____
Fan unit cost:	E \$ _____
Installation cost:	D \$ _____
Total Installed cost:	(D+C) * C, \$ _____

An extreme example would be the use of discount store or home center promotional \$49.95 fans. Let's assume these imported 56" curved tipped patio fans could overcome the AT buoyancy factor and could cover 900 ft.2 per fan. The result is that 65 fans would have to be installed and no summertime cooling would be achieved. The low priced fan with its hidden additional costs is no bargain.

Residential patio fans are commonly rated at 400 ft.2 per fan (20'x 20' Living Room 8' tall ceiling).

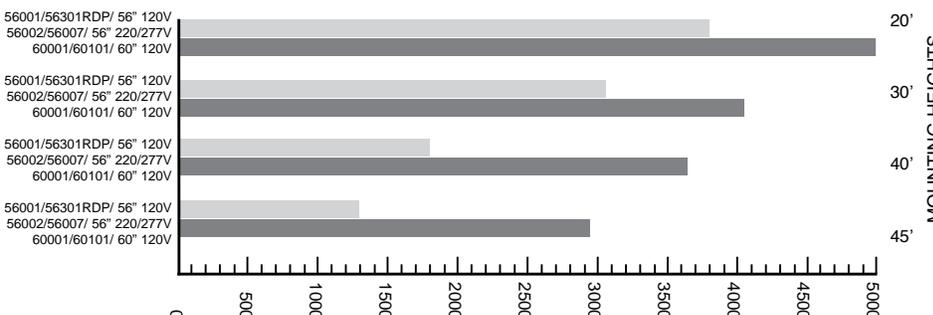
AREA COVERAGE SUMMARY BY FAN BY HEIGHT



ONLY LEADING EDGE PROVIDES UNIVERSITY DOCUMENTED PERFORMANCE DATA. COMPARE THIS EXCLUSIVE DATA TO ANY OTHER FAN AVAILABLE.

INDUSTRIAL & SPECIAL APPLICATION MODELS

TOTAL SQUARE FOOT AREA COVERAGE



DESTRATIFICATION CEILING FANS

APPLICATIONS:

Educational facilities, offices, retail stores, restaurants or any other low ceiling application where larger blade diameters span creates maximum air velocity and area coverage at lower RPM's.



U.S. Patent # 5,645,403

FEATURES:

- Area of coverage - between 1,600 to 3,025 sq ft.
- Proprietary contoured shaped wide blade design for achieving desired RPM and velocity.
- Patented metal rolled back blade edges to comply with UL507 standard. (US Patent #5645403)
- Durable construction for continuous commercial use with the same manufacturing criteria as our heavy duty industrial line.
- Supplied with 8" and 24" downrods and secondary mounting cable.

36201 • 36" COMMERCIAL FAN

Designed for smaller areas, where minimal ventilation is required. Ideally suited for isolated areas and as a supplemental cooling fan.

48201 • 48" COMMERCIAL FAN

Designed for commercial facilities such as school classrooms, offices, retail stores, restaurants. Provides maximum area coverage for both summer cooling and winter heat destratification.

56001LC • 56" COMMERCIAL / SCHOOL CLASSROOM FAN

Designed for spacious areas with low ceilings where larger blade diameter span creates maximum air velocity and area coverage at lower RPM's. Engineered specifically for continuous commercial use with the same manufacturing criteria as our heavy duty industrial line. Ideally suited for classrooms.

	BLADE SIZE	ORDER NUMBER	VOLTS	MAX CFM*	AREA COVERAGE**	SHIP WT. (LBS.)
*	36"	36201	120	12,500	1,600 sq ft	20
*	48"	48201	120	21,000	2,025 sq ft	22
*	56"	56001LC	120	25,500	3,025 sq ft	24

*Effective amount of air volume moved past a plane 20 ft. from fan. All specifications subject to change and improvement.

**Area coverage rated for heat destratification at 20' blade mounting height. Maximum continuous operation ambient temperature 105°F.

DESTRATIFICATION CEILING FANS



U.S. Patent #5,575,624

MAXIMUM AREA COVERAGE AT LOWEST TOTAL INSTALLED COST.

APPLICATIONS:

Industrial building, factories, gymnasiums, high bay storage facilities or any other spacious applications where maximum area coverage is required.

FEATURES:

- Area of coverage - between 3,800 to 5,000 sq ft.
- Proprietary contoured shaped wide blade design for achieving desired RPM and velocity.
- Powerful heavy-duty motor capable of heat destratification at 45 - 75 feet height.
- Supplied with 8" and 24" downrods and secondary mounting cable.
- Patented 56" reversible fan provides the identical airflow volume in either forward or reverse rotation. The dual pitch blade is the only blade designed for maximum reverse direction. Ideal for exhausting, condensation removal and prevention, reverse destratification and other draft free applications at mounting heights of 10' and higher.

BLADE SIZE	ORDER NUMBER	VOLTS	MAX CFM*	AREA COVERAGE**	COLOR	SHIP WT. (LBS.)
56"	56001	120	27,500	3,800 sq ft	White	24
56"	56011	120	27,500	3,800 sq ft	Brown	24
56"	56002***	220	26,000	3,800 sq ft	White	24
56"*	56007	277	26,000	3,800 sq ft	White	24
60"	60001	120	46,000	5,000 sq ft	White	30
60"	60002	220	46000	5,000 sq ft	White	30
60"	60011	120	46,000	5,000 sq ft	Brown	30
56"*	56301RDP****	120	27,000	3,800 sq ft	White	24

Note: Supplied with 24" downrods. Secondary mounting cable supplied.

* Effective amount of air volume moved past a plane 20ft. from fan, industry test. All specifications subject to change and improvement.

** Area coverage rated for heat destratification at 20' blade mounting height. Maximum continuous operation ambient temperature 105°F

*** Subject to stock on hand.

**** Reversible fan includes remote mounted toggle switch suitable for up to 12 fans. Switch requires pulling 4 wires (not including ground) from fan to switch.



APPLICATIONS:

Food processing plants, wet factory locations, indoor swimming pool areas, exposed shipping areas, outdoor restaurants, exposed shipping areas, outdoor restaurants, outdoor shopping malls.



HARSH ENVIRONMENT SPRAY PROOF MODELS

BLADE SIZE	ORDER NUMBER	VOLTS	MAX CFM*	AREA COVERAGE**	COLOR	SHIP WT. (LBS.)
56" ▲	56101	120	25,500	3,025 sq ft	White	23
60"	60101	120	41,000	5,000 sq ft	White	24

Supplied with 12" down rod.

APPLICATIONS:

Poultry houses, hog sheds, dairy barns, green houses, nurseries, stables.



AGRICULTURAL MODELS

BLADE SIZE	ORDER NUMBER	VOLTS	MAX CFM*	AREA COVERAGE**	COLOR	SHIP WT. (LBS.)
56" ▲	56111	120	25,500	3,025 sq ft	White	23
60"	60111	120	41,000	5,000 sq ft	White	24

Supplied with 12" down rod.

APPLICATIONS:

Spot cooling in areas where wall switches are not desired. Also designed for production areas where single unit designation operation is required.



3 SPEED PULL CHAIN MODELS

BLADE SIZE	ORDER NUMBER	VOLTS	MAX CFM*	AREA COVERAGE**	COLOR	SHIP WT. (LBS.)
48" ▲	48203	120	27,500	3,800 sq ft	White	23
56" ▲	56003	120	27,500	3,025 sq ft	White	24

Supplied with 8" and 24" down rod



APPLICATIONS:

Entertainment establishment, restaurants, retail where black color of the ceiling fans has to match the interior design.



THEATER FAN MODELS

BLADE SIZE	ORDER NUMBER	VOLTS	MAX CFM*	AREA COVERAGE**	COLOR	SHIP WT. (LBS.)
48" ▲	48201B	120	21,000	2,025 sq ft	Black	23
56"	56001B	120	27,500	3,800 sq ft	Black	24

Secondary mounting cable supplied.

* Effective amount of air volume moved past a plane 20ft. from fan, industry test. All specifications subject to change and improvement.

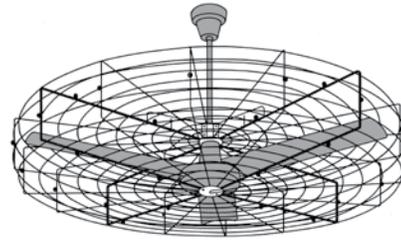
** Area coverage rated for heat destratification at 20' blade mounting height.

Maximum continuous operation ambient temperature 105°F

▲ Suitable for low ceiling APPLICATIONS: U.L. 507 listed.

CEILING FANS ACCESSORIES

Ceiling Fan Guard - For gymnasiums and public facilities.



CATALOG NUMBER	ITEM	SHIP WT. (LBS.)
28001	FAN GUARD 62" DIAMETER FOR INDUSTRIAL 56" AND 60" FANS ♦	50
28002	FAN GUARD 52" DIAMETER FOR COMMERCIAL 36" AND 48" FANS ONLY ♦	40
9FP024	WHITE TILTED CANOPY COVER - BROWN(9FP023), BLACK(9FP023B)	1
9D12BW	DOWNRODS - 12" Also available in brown, replace "W" in model number with "B"	1
9D18BW	DOWNRODS - 18" Also available in brown, replace "W" in model number with "B"	1
9D36BW	DOWNRODS - 36" Also available in brown, replace "W" in model number with "B"	3
9D48BW	DOWNRODS - 48" (FOR LONGER SIZES - CONSULT FACTORY)	4
99992	OUTDOOR LOCATION INSTALLATION KIT*	1
9DKIT	WHITE DOWNROD Extension kit	
9DKITB	BROWN DOWNROD Extension kit	

Custom models available. Consult with factory for information and specifications
 Use only with heavy-duty / industrial models - Not recommended for low ceiling APPLICATIONS:
 ♦ Fan Guards ship via UPS *Only for use with harsh env. fans.

OPTIONAL MOTOR SPEED CONTROLS

Only Leading Edge motor speed controls are custom engineered, manufactured and UL listed to all Leading Edge Fans.

Available in 3, 8, 12 Amp Models, 120/220/277 Volt

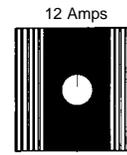
- For single and multiple fan installations.
- Dial-on / off switch allows high-to-low variable speed control above factory act "anti-stall" level.



Models:
12003



Models:
12008
27708



Models:
12012



Model:
12001N
For Single Fan
Model:
12005N
For Two Fans

MODEL FAN AND QUANTITY PER CONTROL

ORDER NUMBER	VOLTS	AMPS	36201	48201	56101	56001 56001LC 56301RDP 56007	56002	60001
							60101	
12003	120	3	3	2	2	-	1	
12006	120	6	7	5	5	-	3	
12008	120	8	10	6	6	-	4	
12012	120	12	12	10	10	-	8	
27708	277*	8	-	-	-	2	-	
NOISELESS MECHANICAL CONTROL								
12001N	120	1	-	1			Controls 48" & 56" Models Only	
12005N	120	5	-	2	2		Controls 48" & 56" Models Only	

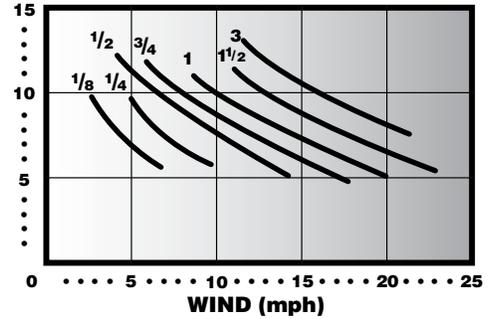
* 6 fans on 277V

INTRODUCTION TO AIR CURTAINS

Air Curtains are used for a wide variety of applications from thermal barriers at shopping mall entrances, to fly and insect prevention at restaurant service doors, to factory freight doors for wind resistance and temperature separation. The air curtain enables traffic to flow unobstructed through openings while maintaining distinct environments, thus resulting in energy savings.

The most common type of air curtain is the horizontal, non-recirculating, single jet type. It will satisfy the majority of needs for commercial and industrial applications. The discharge velocity of the air curtain can range from 600 ft/min, for entrance ways, to over 5,000 ft/min, for sealing environments from wind effects and insects.

Wind Resistance Chart DOOR HEIGHT (FT)



APPLICATIONS: by Door Height	* Wind conditions are classified as follows:						
	● GENTLE=1 to 5 mph ○ LIGHT=5 to 8 mph ■ MODERATE=8 to 12 mph □ STRONG=12 to 15 mph ◇ SEVERE=15 to 21 mph						
	Low Profile	Environmental Series			High Velocity Series		
Basic Motor HP/Series	1/8 HP	1/4 HP	1/2 HP	3/4 HP	1 HP	1 1/2 HP	3 HP
RETAIL APPLICATIONS:							
THERMAL BARRIER							
7' RETAIL ENTRANCE	●						
COMMERCIAL APPLICATIONS:							
INTERIOR SEPARATION							
8' INTERIOR		●					
10' INTERIOR			●				
THERMAL BARRIER							
8' EXTERIOR		○	■	□			
10' EXTERIOR			○	■			
FOOD SERVICE APPLICATIONS:							
THERMAL BARRIER							
7' CUSTOMER ENTRANCE		○					
8' CUSTOMER ENTRANCE		○					
FLY & INSECT CONTROL							
7' SERVICE ENTRANCE			■	□			
8' SERVICE ENTRANCE			○	■			
REFRIGERATION APPLICATIONS:							
THERMAL BARRIER							
7' COOLER	●						
8' COOLER		●					
10' COOLER			●				
12' COOLER				●			
8' FREEZER			●				
10' FREEZER				●			
12' FREEZER				●			
SANITATION APPLICATIONS:							
FLY & INSECT CONTROL							
8' EXTERIOR				■	□	◇	
10' EXTERIOR				■	□		
LIGHT INDUSTRIAL APPLICATIONS:							
INTERIOR SEPARATION							
12' INTERIOR OPENING					○		
14' INTERIOR OPENING						○	
WIND RESISTANCE							
10' EXTERIOR DOORWAY					■	□	◇
12' EXTERIOR DOORWAY						○	■
14' EXTERIOR DOORWAY							○

Compact low-profile series designed for retail customer entrances, malls, stores and restaurants. This air curtain acts as a Thermal Barrier for mounting heights of 7' customer entrances and 8' interior doors.

Designed for supermarkets, schools, hospitals and other large facilities. This air curtain acts as a Thermal Barrier or Interior Separation device for mounting heights of 8'-10'.

Designed for customer entrances (front door) and service entrances (rear door). This air curtain acts as a Thermal Barrier or Fly and Insect Control device for mounting heights of 7' - 8'.

Designed for freezers, coolers, cold storage facilities, processing plants and other refrigerated facilities. This air curtain acts as a Thermal Barrier for mounting heights of 7' - 12'.

Designed for use in meat and poultry packing plants, processing plants and food preparation areas. This air curtain acts as a Fly and Insect Control device for mounting heights of 8'-10'.

Designed for warehouses, manufacturing plants and other large facilities. This air curtain acts as a Wind Resistance or Interior Separation device for mounting heights of 10'-14'.

DOOR HEIGHT (FT)

WIND (mph)

AIR CURTAIN SELECTION FORM

Let us configure an air curtain for you! Please complete the following questionnaire and return to Leading Edge today!

Date:	
To:	
Attn:	
Address:	
Fax:	
Phone:	
Email:	

Company:	
Address:	
Fax:	
Project:	
Phone:	
Contact Name:	

TYPE OF APPLICATION

- Thermal Barrier Wind Resistance
 Cooler Interior Separation
 Freezer Fly & Insect Control
 Other _____

TYPE OF DOOR

- Horizontal Rise (Garage door)
 Low Turn-Back High Turn-Back
 Hinged Door
 Roll Up Door (Canister)
 Vertical Rise
 Other _____

TYPE OF MOUNT

- Keyhole Wall Mount
 Wall Brackets
 Suspension Mount
 Other _____

DOOR INFORMATION

- Door Width ____ Feet ____ Inches
 Door Height ____ Feet ____ Inches
 Door Header ____ Feet ____ Inches
 (Required for mounting of unit)

VOLTAGE REQUIREMENTS

- 120/1/60 220/1/60 208/3/60
 230/3/60 460/3/60 Other _____
 50 Cycle Required _____

TYPE OF HEAT

- Electric
 Steam Hot Water
 *Desired Temperature Rise _____
 *Desired Temperature Rise _____

DOOR LOCATION

- Interior Exterior

WIND RESISTANCE

- 1-8 mph 8-15 mph Exceeds 15 mph

NEGATIVE PRESSURE

- Yes No

OPTIONAL ACCESSORIES

- Automatic Door Switch (3-phase units require a control panel)
 Filter
 With Grill In Place of Grill
 Tamper-Resistant Kit

ADDITIONAL INFORMATION: _____

LOW-PROFILE SERIES

APPLICATION:

For use as a Thermal Barrier in retail customer entrances, malls, stores, hospitals, post offices, restaurants, concession windows and walk-in coolers.

APPLICATION GUIDELINES:

- Create an "open door" atmosphere in retail establishments.
- For mounting heights of 7 ft. for exterior customer entrances or 8 ft. interior doors.
- Reduce infiltration of exterior air, fumes, dust and dirt.
- Act as a temperature separation device, repelling outside air while maintaining interior environment.
- Patented design allows for continuous mounting.

FEATURES:

- Modern contemporary design with choice of electro-static powder paint or quality stainless steel.
- Cross-flow blower wheels for maximum outlet uniformity.
- Easily adjustable air directional vanes.
- Two speed motor with convenient selector switch.
- Pre-wired 48 inch molded cord/plug for simple installation.
- Quick-Mount mounting plate included. No Template required to locate mounting screws.
- Units can be installed in series for side by side continuous mounting.

EXCLUSIVE FEATURES: ARCHITECTURAL SERIES:

- Extended anodized, aluminum design that compliments store interiors and public facilities.
- Custom paint to accent architectural sill-height heaters in vestibules and receptions areas.



Low-Profile - Contemporary Series



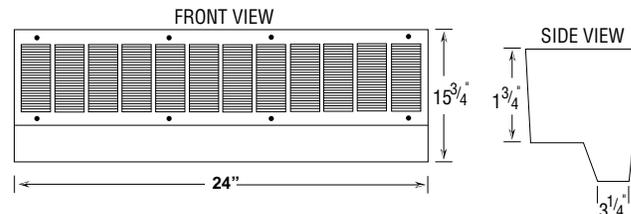
Low-Profile - Architectural Series



MODEL	NOZZLE WIDTH (IN)	VOLTS	AMPS	MAX VEL (FPM)	AVG VEL (FPM)	AIRFLOW (CFM)	WT. (LBS.)	MOTORS (HP)
CONTEMPORARY POWDER PAINT								
MLP36001115GR	36	120	1.3	1800	1800 / 1350	1200 / 900	32	1 @ 1/15
MLP42001110GR	42	120	1.6	1800	1800 / 1350	1380 / 1040	37	1 @ 1/10
MLP48001108GR	48	120	2.1	1800	1800 / 1350	1600 / 1210	42	1 @ 1/8
MLP60001108GR	60	120	2.1	1800	1800 / 1350	2060 / 1550	53	1 @ 1/8
MLP36001208GR	36	240	0.7	1800	1800 / 1350	1200 / 900	32	1 @ 1/8
MLP42001208GR	42	240	0.7	1800	1800 / 1350	1380 / 1040	37	1 @ 1/8
MLP48001206GR	48	240	1.0	1800	1800 / 1350	1600 / 1210	42	1 @ 1/6
MLP60001206GR	60	240	1.0	1800	1800 / 1350	2060 / 1550	43	1 @ 1/6
CONTEMPORARY STAINLESS STEEL								
MLP36001115GRSS	36	120	1.3	1800	1800 / 1350	1200 / 900	32	1 @ 1/15
MLP42001110GRSS	42	120	1.6	1800	1800 / 1350	1380 / 1040	37	1 @ 1/10
MLP48001108GRSS	48	120	2.1	1800	1800 / 1350	1600 / 1210	42	1 @ 1/8
MLP60001108GRSS	60	120	2.1	1800	1800 / 1350	2060 / 1550	53	1 @ 1/8
MLP36001208GRSS	36	240	0.7	1800	1800 / 1350	1200 / 900	32	1 @ 1/8
MLP42001208GRSS	42	240	0.7	1800	1800 / 1350	1380 / 1040	37	1 @ 1/8
MLP48001206GRSS	48	240	1.0	1800	1800 / 1350	1600 / 1210	42	1 @ 1/6
MLP60001206GRSS	60	240	1.0	1800	1800 / 1350	2060 / 1550	43	1 @ 1/6
ARCHITECTURAL SERIES								
MLP36001115GA	36	120	1.3	1800	1800 / 1350	1200 / 900	32	1 @ 1/15
MLP42001110GA	42	120	1.6	1800	1800 / 1350	1380 / 1040	37	1 @ 1/10
MLP48001108GA	48	120	2.1	1800	1800 / 1350	1600 / 1210	42	1 @ 1/8
MLP60001108GA	60	120	2.1	1800	1800 / 1350	2060 / 1550	53	1 @ 1/8
MLP36001208GA	36	240	0.7	1800	1800 / 1350	1200 / 900	32	1 @ 1/8
MLP42001208GA	42	240	0.7	1800	1800 / 1350	1380 / 1040	37	1 @ 1/8
MLP48001206GA	48	240	1.0	1800	1800 / 1350	1600 / 1210	42	1 @ 1/6
MLP60001206GA	60	240	1.0	1800	1800 / 1350	2060 / 1550	43	1 @ 1/6

24" DRIVE THRU WINDOW UNIT

- For use in restaurants, fast food windows, schools and drive-ins.
- Designed to provide protection against flies and insects, dust and odors.
- For service windows up to 30" wide with a maximum mounting height of 5 ft. nozzle-to-counter.



MODEL	ITEM DESCRIPTION	MAX FPM AT NOZZLE	MAX CFM AT NOZZLE	MAX FPM 2' ABOVE COUNTER	HP	VOLTS	MAX AMPS	APPROX. SHIP WEIGHT (LBS.)
E24001115F	With filter only	3000	1600	750	1/15	120	1.3	25
E24001115G	With intake grille only	3000	1600	750	1/15	120	1.3	25
E24001115FG	With filter and grille	3000	1600	750	1/15	120	1.3	25

ENVIRONMENTAL SERIES AIR CURTAINS

APPLICATION:

- Commercial - supermarkets, schools, hospitals.
- Food Service - restaurants, bakeries, cafeterias.
- Refrigeration - freezers, coolers, processing plants.

FEATURES:

- Galvanized, corrosion-resistant, heavy duty steel cabinet.
- Easy access; no tools required for inspection and cleaning.
- Heavy duty, totally enclosed motors with permanently lubricated bearings.
- Electrically heated models available.
- Hot Water/Steam Heated Models.
- Exclusive Smart-Trac II Adjustable Mounting System (Pat. Pend.) allows for 6-way adjustment and alignment at the cabinet to compensate for possible overhead obstacles such as sprinkle pipes, conduit and beams. (Optional on all models)



MODEL NUMBER	WIDTH (IN)	AIR DELIVERY @ NOZZLE OUTLET			# MOTORS @ HP	INPUT POWER RATING (KW)*		APPROX SHIP WEIGHT (LBS.)
		MAX VELOCITY (FPM) HI/LOW†	AVG VELOCITY (FPM) HI/LOW†	AVG AIR FLOW RATE (CFM) HI/LOW†		1-PH	3-PH	
1/4 HP MODELS								
E36001#25	36	2800 / 1850	2000 / 1480	1620 / 1200	1 @ 1/4	0.41	0.24	65
E38001#25	38	2800 / 1850	1955 / 1450	1670 / 1240	1 @ 1/4	0.41	0.24	67
E42001#25	42	2800 / 1850	1900 / 1410	1795 / 1330	1 @ 1/4	0.41	0.24	70
E48001#25	48	2800 / 1850	1855 / 1375	2000 / 1480	1 @ 1/4	0.41	0.24	77
E60002#25	60	2800 / 1850	2125 / 1575	2880 / 2135	2 @ 1/4	0.82	0.48	128
E72002#25	72	2800 / 1850	2000 / 1480	3240 / 2400	2 @ 1/4	0.82	0.48	130
E76002#25	76	2800 / 1850	1955 / 1450	3340 / 2475	2 @ 1/4	0.82	0.48	134
E84002#25	84	2800 / 1850	1915 / 1420	3620 / 2680	2 @ 1/4	0.82	0.48	142
E96002#25	96	2800 / 1850	1855 / 1375	4000 / 2960	2 @ 1/4	0.82	0.48	154
E10803#25	108	2800 / 1850	2000 / 1480	4860 / 3600	3 @ 1/4	1.23	0.72	195
E12003#25	120	2800 / 1850	1945 / 1440	5240 / 3880	3 @ 1/4	1.23	0.72	207
E13203#25	132	2800 / 1850	1895 / 1405	5620 / 4160	3 @ 1/4	1.23	0.72	219
E14403#25	144	2800 / 1850	1855 / 1375	6000 / 4440	3 @ 1/4	1.23	0.72	231
1/2 HP MODELS								
E36001#50	36	3800 / 2815	3040 / 2250	2460 / 1820	1 @ 1/2	0.62	0.40	74
E38001#50	38	3800 / 2815	2965 / 2195	2535 / 1880	1 @ 1/2	0.62	0.40	76
E42001#50	42	3800 / 2815	2890 / 2140	2730 / 2020	1 @ 1/2	0.62	0.40	79
E48001#50	48	3800 / 2815	2815 / 2085	3040 / 2250	1 @ 1/2	0.62	0.40	86
E60002#50	60	3800 / 2815	3230 / 2390	4375 / 3240	2 @ 1/2	1.25	0.80	148
E72002#50	72	3800 / 2815	3040 / 2250	4920 / 3645	2 @ 1/2	1.25	0.80	148
E76002#50	76	3800 / 2815	2965 / 2195	5070 / 3755	2 @ 1/2	1.25	0.80	152
E84002#50	84	3800 / 2815	2910 / 2155	5500 / 4070	2 @ 1/2	1.25	0.80	160
E96002#50	96	3800 / 2815	2815 / 2085	6080 / 4500	2 @ 1/2	1.25	0.80	172
E10803#50	108	3800 / 2815	3040 / 2250	7380 / 5465	3 @ 1/2	1.87	1.20	222
E12003#50	120	3800 / 2815	2950 / 2184	7960 / 5890	3 @ 1/2	1.87	1.20	234
E13203#50	132	3800 / 2815	2875 / 2130	8540 / 6320	3 @ 1/2	1.87	1.20	246
E14403#50	144	3800 / 2815	2815 / 2085	9120 / 6750	3 @ 1/2	1.87	1.20	258
3/4 HP MODELS								
E36001#75	36	4850 / 3590	3880 / 2875	3140 / 2325	1 @ 3/4	0.94	1.20	83
E38001#75	38	4850 / 3590	3790 / 2805	3240 / 2400	1 @ 3/4	0.94	1.20	86
E42001#75	42	4850 / 3590	3685 / 2730	3480 / 2575	1 @ 3/4	0.94	1.20	89
E48001#75	48	4850 / 3590	3595 / 2660	3880 / 2875	1 @ 3/4	0.94	1.20	96
E60001#75	60	4850 / 3590	3395 / 2510	4580 / 3390	1 @ 3/4	1.87	2.39	112
E72002#75	72	4850 / 3590	3880 / 2875	6280 / 4650	2 @ 3/4	1.87	2.39	166
E76002#75	76	4850 / 3590	3790 / 2805	6480 / 4795	2 @ 3/4	1.87	2.39	172
E84002#75	84	4850 / 3590	3715 / 2750	7020 / 5195	2 @ 3/4	1.87	2.39	179
E96002#75	96	4850 / 3590	3595 / 2660	7760 / 5745	2 @ 3/4	1.87	2.39	192
E10803#75	108	4850 / 3590	3880 / 2875	9420 / 6975	3 @ 3/4	2.81	3.59	249
E12003#75	120	4850 / 3590	3765 / 2790	10160 / 7520	3 @ 3/4	2.81	3.59	262
E13203#75	132	4850 / 3590	3670 / 2720	10900 / 8070	3 @ 3/4	2.81	3.59	275
E14403#75	144	4850 / 3590	3595 / 2660	11640 / 8615	3 @ 3/4	2.81	3.59	288

- Indicate Voltage: 1 = 120/1, 2 = 220/1, 3 = 208/3, 4 = 230/3, 5 = 460/3

* - AMP Draw maybe Estimated as Follows: 1 - ph = $\frac{\text{Power Rating} \cdot 1000}{\text{Voltage}}$; 3 - ph = $\frac{\text{Power Rating} \cdot 1000}{\text{Voltage} \cdot 1.732}$

† - Low speed only available on 1-PH units

3-PHASE ENVIRONMENTAL ELECTRICALLY

HEATED SERIES

APPLICATION:

- For use in vestibules, lobbies, staging areas, reception areas, waiting rooms and other customer greeting areas.
- Heated air curtains are not designed to hold 100% of incoming cold air, as the required air velocity generated would be uncomfortable to patrons. The incoming cold air is entrained in the warm curtain of air, thus maintaining comfort levels.
- Heated units also reduce the wind chill effect of personnel walking through or standing near openings.

FEATURES:

- New modular designed cabinet allows 8 to 48 kilowatts of heating capacity, in lengths ranging from 36 to 144 inches.
- Large, easily accessible pre-wired control box is side mounted and features a hinged swing down access panel.
- Easily visible indicator lights on control panel alerts operator when power to the unit is on and when fan and heat are operating.
- Helical coil heating element modules are easily replaceable.
- Heating elements are thermally protected and include a pilot light feature.
- Hinged element control panel is located in front of nozzle and swings down for servicing.
- Air-flow safety sensor disables heating element in the event motor/blowers need servicing or are wired incorrectly.
- Use Wall-mounted 24-volt thermostat for temperature control. (Not Included).
- Can be operated with or without heat for winter and summer operation.
- Exclusive Smart-Trac II Adjustable Mounting System Optional on all models.



Available In:

- Three phase 60Hz, 208 volt motor and heat.
- Three phase 60Hz, 240 / 208 volt motor and heat.
- Three phase 60Hz, 480 volt motor and heat.
- For additional models consult factory.

AIR DELIVERY @ NOZZLE OUTLET

MODEL NUMBER	WIDTH (IN)	NUMBER OF CABINETS	CONTROL VOLTAGE	MAX VEL (FPM)	AVG VEL (FPM)	AIRFLOW (CFM)	APPROX SHIP WEIGHT (LBS.)	# MOTORS @ HP
1/2 HP MODELS								
E36++1#50HE	36	1	24	3800	3040	2460	93	1 @ 1/2
E42++1#50HE	42	1	24	3800	2890	2730	98	1 @ 1/2
E48++1#50HE	48	1	24	3800	2815	3040	105	1 @ 1/2
E60++1#50HE	60	1	24	3800	2740	3350	117	1 @ 1/2
E72++2#50HE	72	2	24	3800	3040	4920	177	2 @ 1/2
E84++2#50HE	84	2	24	3800	2910	5460	181	2 @ 1/2
E96++2#50HE	96	2	24	3800	2815	6080	189	2 @ 1/2
E108++3#50HE	108	3	24	3800	3040	7380	261	3 @ 1/2
E120++3#50HE	120	3	24	3800	2950	7920	273	3 @ 1/2
E132++3#50HE	132	3	24	3800	2875	8540	285	3 @ 1/2
E144++3#50HE	144	3	24	3800	2815	9120	297	3 @ 1/2
3/4 HP MODELS								
E42++1#75HE	42	1	24	4850	3685	3480	108	1 @ 3/4
E48++1#75HE	48	1	24	4850	3595	3880	115	1 @ 3/4
E60++1#75HE	60	1	24	4850	3395	4580	131	1 @ 3/4
E72++2#75HE	72	2	24	4850	3880	6280	195	2 @ 3/4
E84++2#75HE	84	2	24	4850	3715	6960	208	2 @ 3/4
E96++2#75HE	96	2	24	4850	3595	7760	221	2 @ 3/4
E108++3#75HE	108	3	24	4850	3880	9420	288	3 @ 3/4
E120++3#75HE	120	3	24	4850	3765	10100	301	3 @ 3/4
E132++3#75HE	132	3	24	4850	3670	10900	314	3 @ 3/4
E144++3#75HE	144	3	24	4850	3595	11640	327	3 @ 3/4

++ TOTAL HEATER KW AVAILABLE (SELECT FROM BELOW) • # - SELECT VOLTAGE: 3 = 208V 3-PH, 4 = 240V/208V 3-PH, 5 = 480V 3-PH.

Note: Stock Cabinet and Grille color is Neutral Gray. Other standard colors available on request include: Navajo White, Northern White, Black, Charcoal Gray, Aluminum, Statuary Bronze and Desert Tan.

	KW	BTU/HR	KW	BTU/HR	KW	BTU/HR
1-CABINET	08	27,230	12	40,980	16	54,640
2-CABINET	16	54,640	24	81,960	32	109,280
3-CABINET	24	81,960	36	122,940	48	163,920

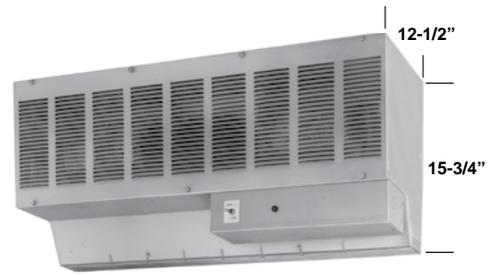
Note: Multiply listed wattage by .75 for actual 208V rating. Maximum 15 kilowatts per cabinet at 240V.

SINGLE PHASE ENVIRONMENTAL SERIES

ELECTRICALLY HEATED

APPLICATION:

- For use in vestibules, lobbies, staging areas, reception areas, waiting rooms and other customer greeting areas.
- Heated air curtains are not designed to hold 100% of incoming cold air, as the required air velocity generated would be uncomfortable to patrons. The incoming cold air is entrained in the warm curtain of air, thus maintaining comfort level.
- Heated units also reduce the wind chill effect of personnel walking through or standing near an opening.



FEATURES:

- Heated units supplied with pre-wired heater control box for efficient installation.
- Wall-mounted 24-volt thermostat for temperature control.
- Multiple coil capacities for proper application requirements.
- Heater control panel mounts in front of nozzle, below grill.

Available In:

- Single phase 60Hz, 120 volt motor, 240 volt heat.



MODEL NUMBER	WIDTH (IN)	HEATER		CONTROL VOLTAGE	MAX VEL (FPM)	AVG VEL (FPM)	AIRFLOW (CFM)	# MOTORS @ HP
		WATTS	BTU/HR					
E36061125H	36	6,000	20,478	24	2500	2000	1620	1 @ 1/4
E42061125H	42				2500	1900	1795	1 @ 1/4
E48061125H	48				2500	1855	2000	1 @ 1/4
E36091125H	36	9,000	30,717	24	2500	2000	1620	1 @ 1/4
E42091125H	42				2500	1900	1795	1 @ 1/4
E48091125H	48				2500	1855	2000	1 @ 1/4

- Indicate Voltage: 1 = 120V-MTR/240V-HTR

HOT WATER / STEAM HEATED

APPLICATION:

- For use in facilities with continuously open doors or which require supplemental perimeter heating.
- Provides an economical source of heat when steam or hot water is readily available.
- Treats incoming air and prevents cold air from infiltrating large areas.
- Also used as supplemental heat when operated with door closed to provide additional perimeter heating.

FEATURES:

- Unique universal construction method designed for both low-pressure steam or hot water applications.
- Premium quality coils provide superior heat transfer effectiveness for both low-pressure steam and hot water applications.
- Universal left- or right-hand opposite end connected coils.
- Single- or double-row coils available for desired capacity.
- Constructed of highly-effective 1/2-inch copper tubing with corrugated aluminum fins.

WIDTH (IN)	MODEL NUMBER	HOT WATER Based on 70°F entering air, 200°F entering water & 180° exiting water				STEAM Based on 5 psig steam, 70°F entering air				
		ONE ROW		TWO ROW		ONE ROW		TWO ROW		
		CAPACITY (MBH)	TEMP RISE (F)	CAPACITY (MBH)	TEMP RISE (F)	MODEL NUMBER	CAPACITY (MBH)	TEMP RISE (F)	CAPACITY (MBH)	TEMP RISE (F)
1/2 HP MODELS										
48	E48001#50HW@	54.1	16.3	104	31.2	E48001#50HS@	81.6	24.7	-	-
60	E60002#50HW@	77.4	16.2	149	31.1	E60002#50HS@	111	23.4	-	-
72	E72002#50HW@	91.8	17.1	176	32.7	E72002#50HS@	128	24.1	-	-
84	E84002#50HW@	106	17.6	203	33.7	E84002#50HS@	145	24.1	-	-
96	E96002#50HW@	121	18.2	231	34.7	E96002#50HS@	164	24.8	-	-
108	E10803#50HW@	134	16.6	267	33.0	E10803#50HS@	186	23.0	-	-
120	E12003#50HW@	159	18.3	304	35.0	E12003#50HS@	210	24.3	-	-
132	E13203#50HW@	173	18.5	331	35.4	E13203#50HS@	226	24.2	-	-
144	E14403#50HW@	188	18.9	359	36.1	E14403#50HS@	244	24.7	-	-
3/4 HP MODELS										
48	E48001#75HW@	63.2	14.9	122	28.7	E48001#75HS@	94.2	22.4	180	42.7
60	E60002#75HW@	93.3	15.3	180	29.6	E60002#75HS@	131	21.7	251	41.5
72	E72002#75HW@	107	15.6	207	30.1	E72002#75HS@	148	21.7	283	41.5
84	E84002#75HW@	123	16.0	239	31.1	E84002#75HS@	168	21.8	321	41.7
96	E96002#75HW@	142	16.7	272	32.1	E96002#75HS@	189	22.4	360	42.8
108	E10803#75HW@	163	15.8	315	30.5	E10803#75HS@	215	20.8	410	39.8
120	E12003#75HW@	187	16.8	359	31.5	E12003#75HS@	242	21.9	462	41.9
132	E13203#75HW@	203	17.0	391	32.7	E13203#75HS@	261	21.9	499	41.8
144	E14403#75HW@	221	17.4	424	32.5	E14403#75HS@	282	22.3	538	42.6

- Indicate Voltage: 1 = 120/1, 2 = 200/1, 3 = /208/3, 4 = 230/3, 5 = 460/3; @ denote no. of rows

* - Add 12" for total unit width

Note: Hot Water/Steam units require 6 week lead time.

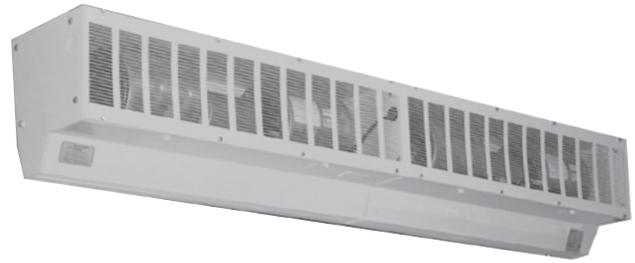
HIGH VELOCITY SERIES

APPLICATION:

- For use in warehouses, manufacturing plants and other large facilities.

FEATURES:

- Galvanized, corrosion-resistant cabinet and intake grill.
- Corrosion-resistant dual-intake scrolls.
- Precision-balance twin stainless steel blower wheels.
- Exclusive Smart-Trac II Adjustable Mounting System (Pat. Pend.) allows for 6-way adjustment and alignment at the cabinet to compensate for possible overhead obstacles such as sprinkler pipes, conduit and beams.(Optional on all models)
- Stem and Hot Water heat available.



MODEL NUMBER	WIDTH (IN)	AIR DELIVERY @ NOZZLE OUTLET			# MOTORS @ HP	NPUT POWER RATING (KW)* 3-PH	APPROX SHIP WEIGHT (LBS.)
		MAX VELOCITY (FPM)	AVG VELOCITY (FPM)	AVG AIR FLOW RATE (CFM)			
1 HP MODELS							
EL36001#00LI	36	5250	4200	3400	1 @ 1	1.20	65
EL38001#00LI	38	5250	4095	3500	1 @ 1	1.20	67
EL42001#00LI	42	5250	3990	3770	1 @ 1	1.20	70
EL48001#00LI	48	5250	3890	4200	1 @ 1	1.20	77
EL60001#00LI	60	5250	3675	4960	1 @ 1	2.39	128
EL72002#00LI	72	5250	4200	6800	2 @ 1	2.39	130
EL76002#00LI	76	5250	4095	7000	2 @ 1	2.39	134
EL84002#00LI	84	5250	4025	7600	2 @ 1	2.39	142
EL96002#00LI	96	5250	3890	8400	2 @ 1	2.39	154
EL10803#00LI	108	5250	4200	10200	3 @ 1	3.59	195
EL12003#00LI	120	5250	4075	11000	3 @ 1	3.59	207
EL13203#00LI	132	5250	3975	11800	3 @ 1	3.59	219
EL14403#00LI	144	5250	3890	6000 / 4440	3 @ 1	3.59	231
1-1/2 HP MODELS							
EL36001#05LI	36	5900	4130	3345	1 @ 1 1/2	3.19	80
EL38001#05LI	38	5900	4015	3430	1 @ 1 1/2	3.19	82
EL42001#05LI	42	5900	3895	3680	1 @ 1 1/2	3.19	88
EL48001#05LI	48	5900	3780	4080	1 @ 1 1/2	3.19	92
EL60001#05LI	60	5900	3540	4780	1 @ 1 1/2	6.37	108
EL72002#05LI	72	5900	4130	6690	2 @ 1 1/2	6.37	160
EL76002#05LI	76	5900	4015	6860	2 @ 1 1/2	6.37	164
EL84002#05LI	84	5900	3930	7425	2 @ 1 1/2	6.37	172
EL96002#05LI	96	5900	3780	8160	2 @ 1 1/2	6.37	184
EL10803#05LI	108	5900	4130	10035	3 @ 1 1/2	9.56	240
EL12003#05LI	120	5900	3990	10770	3 @ 1 1/2	9.56	252
EL13203#05LI	132	5900	3875	11505	3 @ 1 1/2	9.56	264
EL14403#05LI	144	5900	3780	12240	3 @ 1 1/2	9.56	276
3 HP MODELS							
EL36001#30LI	36	7200	5040	4080	1 @ 3	1.51	91
EL38001#30LI	38	7200	4905	4190	1 @ 3	1.51	94
EL42001#30LI	42	7200	4760	4495	1 @ 3	1.51	98
EL48001#30LI	48	7200	4615	4980	1 @ 3	1.51	106
EL60001#30LI	60	7200	4320	5830	1 @ 3	3.03	122
EL72002#30LI	72	7200	5040	8160	2 @ 3	3.03	182
EL76002#30LI	76	7200	4905	8380	2 @ 3	3.03	188
EL84002#30LI	84	7200	4795	9060	2 @ 3	3.03	197
EL96002#30LI	96	7200	4615	9960	2 @ 3	3.03	212
EL10803#30LI	108	7200	5040	12240	3 @ 3	4.54	273
EL12003#30LI	120	7200	4870	13140	3 @ 3	4.54	288
EL13203#30LI	132	7200	4730	14040	3 @ 3	4.54	303
EL14403#30LI	144	7200	4615	14940	3 @ 3	4.54	318

- Indicate Voltage: 3 = 208/3, 4 = 230/3, 5 = 460/3, 6 = 600/3

* - AMP Draw maybe Estimated as Follows: 3 -ph = $\frac{\text{Power Rating} \cdot 1000}{\text{Voltage} \cdot 1.732}$

3-PHASE HIGH VELOCITY ELECTRICALLY

HEATED SERIES

APPLICATION:

- For use in warehouses, manufacturing plants and other large facilities with continuously open doors or provide supplemental heat when operated with doors closed.
- Heated air curtains are not designed to hold 100% of incoming cold air, as the required air velocity generated would be uncomfortable to patrons. The incoming cold air is entrained in the warm curtain of air, thus maintaining comfort levels.
- Heated units also reduce the wind chill effect of personnel walking through or standing near openings.

FEATURES:

- New modular designed cabinet allows 8 to 48 kilowatts of heating capacity, in lengths ranging from 42 to 144 inches.
- Large, easily accessible pre-wired control box is side mounted and features a hinged swing down access panel.
- Easily visible indicator lights on control panel alerts operator when power to the unit is on and when fan and heat are operating.
- Helical coil heating element modules are easily replaceable.
- Heating elements are thermally protected and include a pilot light feature.
- Hinged element control panel is located in front of nozzle and swings down for servicing.
- Air-flow safety sensor disables heating element in the event motor/blowers need servicing or are wired incorrectly.
- Use Wall-mounted 24-volt thermostat for temperature control. (Not Included)
- Can be operated with or without heat for winter and summer operation.
- Exclusive Smart-Trac II Adjustable Mounting System Optional on all models.



Available In:

- Three phase 60Hz, 208 volt motor and heat.
- Three phase 60Hz, 240 / 208 volt motor and heat.
- Three phase 60Hz, 480 volt motor and heat.
- For additional models consult factory.

MODEL NUMBER	WIDTH (IN)	NUMBER OF CABINETS	AIR DELIVERY @ NOZZLE OUTLET				APPROX SHIP WEIGHT (LBS.)	# MOTORS @ HP
			CONTROL VOLTAGE	MAX VEL (FPM)	AVG VEL (FPM)	AIRFLOW (CFM)		
1 HP MODELS								
E42++1#00HE	42	1	24	5250	3990	3770	109	1 @ 1
E48++1#00HE	48	1	24	5250	3890	4200	116	1 @ 1
E60++1#00HE	60	1	24	5250	3675	4960	132	1 @ 1
E72++2#00HE	72	2	24	5250	4200	6800	197	2 @ 1
E84++2#00HE	84	2	24	5250	3990	7540	210	2 @ 1
E96++2#00HE	96	2	24	5250	3890	8400	268	2 @ 1
E108++3#00HE	108	3	24	5250	4200	10200	291	3 @ 1
E120++3#00HE	120	3	24	5250	4075	10940	304	3 @ 1
E132++3#00HE	132	3	24	5250	3975	11800	317	3 @ 1
E144++3#00HE	144	3	24	5250	3890	12600	330	3 @ 1
3 HP MODELS								
E42++1#30HE	42	1	24	7200	4760	4495	117	1 @ 3
E48++1#30HE	48	1	24	7200	4615	4980	125	1 @ 3
E60++1#30HE	60	1	24	7200	4320	5830	141	1 @ 3
E72++2#30HE	72	2	24	7200	5040	8160	211	2 @ 3
E84++2#30HE	84	2	24	7200	4760	8990	226	2 @ 3
E96++2#30HE	96	2	24	7200	4615	9960	241	2 @ 3
E108++3#30HE	108	3	24	7200	5040	12240	312	3 @ 3
E120++3#30HE	120	3	24	7200	4870	13070	327	3 @ 3
E132++3#30HE	132	3	24	7200	4730	14040	342	3 @ 3
E144++3#30HE	144	3	24	7200	4615	14940	357	3 @ 3

++ TOTAL HEATER KW AVAILABLE (SELECT FROM BELOW)

	KW	BTU/HR	KW	BTU/HR	KW	BTU/HR
1-CABINET	08	27,230	12	40,980	16	54,640
2-CABINET	16	54,640	24	81,960	32	109,280
3-CABINET	24	81,960	36	122,940	48	163,920

Note: Multiply listed wattage by .75 for actual 208V rating. Maximum 15 kilowatts per cabinet at 240V.

- SELECT VOLTAGE: 3 = 208V 3-PH, 4 = 240V/208V 3-PH, 5 = 480V 3-PH.

Note: Stock Cabinet and Grille color is Neutral Gray. Other standard colors available on request include: Navajo White, Northern White, Black, Charcoal Gray, Aluminum, Statuary Bronze and Desert Tan.

HIGH VELOCITY SERIES - HOT WATER / STEAM HEATED

APPLICATIONS:

For use in facilities with continuously open doors or which require supplemental perimeter heating.

FEATURES:

- Provides an economical source of heat when steam or hot water is readily available.
- Treats incoming air and prevents cold air from infiltrating large areas.
- Also used as supplemental heat when operated with door closed to provide additional perimeter heating.
- Unique universal construction method designed for both low-pressure steam or hot water applications.
- Premium quality coils provide superior heat transfer effectiveness for both low-pressure steam and hot water applications.
- Universal left- or right-hand installation on all coils.
- Single- or double-row coils available for desired capacity.
- Constructed of highly-effective 1/2-inch copper tubing with corrugated aluminum fins.



Featuring **HEATCRAFT®** COILS



WIDTH (IN)	BASE MODEL	HOT WATER				STEAM				
		BASED ON 70° F ENTERING AIR 200° F ENTERING WATER & 180° F LEAVING WATER				BASED ON 5 PSIG STEAM, 70° F ENTERING AIR				
		ONE ROW		TWO ROW		ONE ROW		TWO ROW		
		CAPACITY TEMP (MBH)	TEMP RISE (F)	CAPACITY TEMP (MBH)	TEMP RISE (F)	BASE MODEL	CAPACITY TEMP (MBH)	TEMP RISE (F)	CAPACITY TEMP (MBH)	TEMP RISE (F)
1 HP MODELS										
48"	EL48001#00HW@	66.4	14.5	128	27.9	EL48001#00HS@	98.5	21.6	189	41.4
60"	EL60001#00HW@	98.1	14.9	190	28.7	EL60001#00HS@	137	20.9	263	40.2
72"	EL72002#00HW@	113	15.2	217	29.3	EL72002#00HS@	154	20.9	296	40.1
84"	EL84002#00HW@	129	15.5	251	30.2	EL84002#00HS@	175	21.0	336	40.4
96"	EL96002#00HW@	149	16.2	287	31.2	EL96002#00HS@	197	21.6	378	41.4
108"	EL10803#00HW@	172	15.4	332	29.7	EL10803#00HS@	224	20.0	430	38.5
120"	EL12003#00HW@	196	16.3	378	31.5	EL12003#00HS@	252	21.2	484	40.6
132"	EL13203#00HW@	213	16.5	412	31.9	EL13203#00HS@	272	21.1	523	40.5
144"	EL14403#00HW@	232	16.9	447	32.5	EL14403#00HS@	294	21.5	564	41.2
1-1/2 HP MODELS										
48"	EL48001#05HW@	65.2	14.6	126	28.2	EL48001#05HS@	96.9	21.9	185	41.9
60"	EL60001#05HW@	97.6	14.9	188	28.8	EL60001#05HS@	136	21	262	40.3
72"	EL72002#05HW@	112	15.3	215	29.4	EL72002#05HS@	153	21.1	293	40.4
84"	EL84002#05HW@	128	15.8	247	30.4	EL84002#05HS@	173	21.2	331	40.7
96"	EL96002#05HW@	146	16.4	281	31.5	EL96002#05HS@	194	21.9	371	41.9
108"	EL10803#05HW@	169	15.4	326	29.7	EL10803#05HS@	221	20.1	424	38.6
120"	EL12003#05HW@	194	16.5	373	31.7	EL12003#05HS@	249	21.4	478	41.4
132"	EL13203#05HW@	210	16.7	405	32.2	EL13203#05HS@	269	21.3	515	40.9
144"	EL14403#05HW@	228	17.1	439	32.8	EL14403#05HS@	290	21.8	554	41.8
3 HP MODELS										
48"	EL48001#30HW@	73.6	13.5	143	26.2	EL48001#30HS@	108	20	208	38.5
60"	EL60001#30HW@	110	13.8	214	26.8	EL60001#30HS@	152	19.2	293	37
72"	EL72002#30HW@	126	14.1	244	27.4	EL72002#30HS@	170	19.2	328	37.1
84"	EL84002#30HW@	143	14.4	278	28.0	EL84002#30HS@	191	19.2	368	37.1
96"	EL96002#30HW@	162	15.4	314	29.7	EL96002#30HS@	213	20.3	409	39
108"	EL10803#30HW@	188	14.0	368	27.5	EL10803#30HS@	245	18.3	471	35.2
120"	EL12003#30HW@	219	15.3	424	29.6	EL12003#30HS@	278	19.5	535	37.5
132"	EL13203#30HW@	238	15.5	461	30.0	EL13203#30HS@	300	19.5	577	37.6
144"	EL14403#30HW@	259	15.8	500	30.6	EL14403#30HS@	323	19.9	621	38.3

Note: Hot Water/Steam units require 6 week lead time.

- Denotes Unit Voltage: 3 = 208/3, 4 = 230/3, 5 = 460/3, 6 = 600/3

@ - Indicates Number of Rows (1 or 2)

*Add 12" for total unit width

Note: Standard coils are opposite ends connected. For pricing on same end connected coils, consult factory.

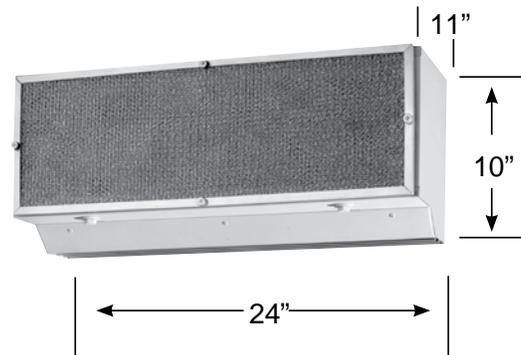
24" DRIVE-THRU WINDOW UNIT

APPLICATIONS:

For use in restaurants, fast food windows, schools and drive-ins.

FEATURES:

- Designed to provide protection against flies and insects, dust and odors. For service windows up to 30" wide with a maximum mounting height of 5 ft. nozzle-to-counter.



MODEL NUMBER	ITEM DESCRIPTION	MAX FPM AT NOZZLE	MAX CFM AT NOZZLE	MAX FPM 2" ABOVE COUNTER	H.P.	VOLTS	MAX AMPS	APPROX. SHIP WEIGHT (LBS.)
E24001115F	With filter only	3000	1600	750	1/15	120	1.3	25
E24001115G	With intake grille only	3000	1600	750	1/15	120	1.3	25
E24001115FG	With filter and grille	3000	1600	750	1/15	120	1.3	25

ACCESSORIES AND CONTROLS

Door Switches

- For use with all air curtains for instant activation or deactivation of unit upon door opening or closing.
- Automatic switches available for all models. (Three-phase motors require a control panel. See below.)
 - Plunger Style for hinged doors or Roller Style for sliding and track doors.

Note: Not recommended for use with heated units.

C1200R
20 AMP



MODEL	STYLE	VOLTAGE	MAX AMPS	SHIP WT. (LBS.)
C1200R	Plunger/Roller	120	20	1

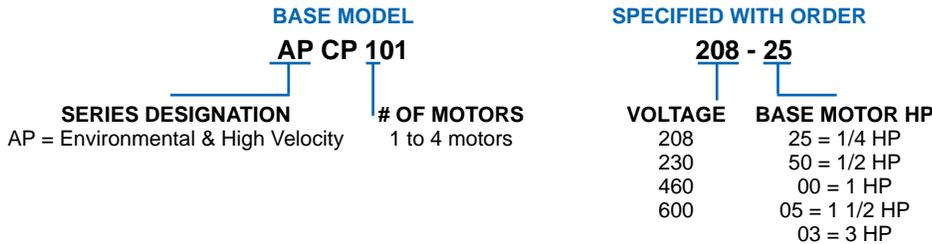
Control Panels

For three-phase air curtains requiring instant on / off automatic switches.

Control Panels contain a single contactor with one adjustable overload relay per motor, control transformer with fused primary and secondary to meet NEC requirements, Hand-Off-Auto selector switch and terminal strip for power wiring and remote door switch.

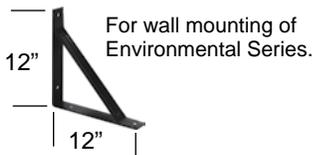
MODEL BREAKDOWN

Use this example for ordering the proper control panel necessary for air curtain unit.



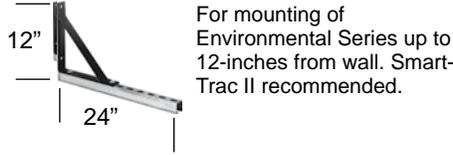
MODEL	STYLE	SHIP WT. (LBS.)
APCP101	1	20
APCP201	2	20
APCP301	3	20
APCP401	4	20

Light Duty Brackets



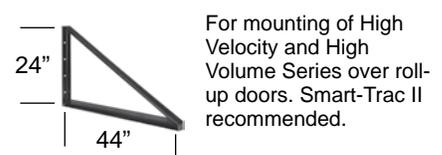
MODEL	SET OF	SHIP WT. (LBS.)
ACWBL	2	10

Medium Duty Brackets



MODEL	SET OF	SHIP WT. (LBS.)
ACWBM2	2	52
ACWBM3	3	78

Medium Duty Brackets



MODEL	SET OF	SHIP WT. (LBS.)
HVWB2	2	72
HVWB3	3	98

SMART TRAC II Adjustable Mounting System



- For use with suspension rod or wall mount applications.
- This unique mounting system is now available for Environmental and High Velocity Series air curtains.

MODEL	SIZE	SHIP WT. (LBS.)
ACSMTRK72	72"	50
ACSMTRK84	84"	50
ACSMTRK96	96"	60
ACSMTRK108	108"	65
ACSMTRK120	120"	70
ACSMTRK132	132"	75
ACSMTRK144	144"	80

Filters

- For certain applications, such as food service or sanitation, filtering the air curtains intake may be desirable.
 - Washable aluminum mesh filters for Low-Profile and Environmental Series air curtains.
- S= Mounts on interior behind grille.
L= Exterior in place of grille.

MODEL	SIZE	SHIP WT. (LBS.)
24" DRIVE-THRU		
APF2400S	24"	1
APF2400L	24"	1
LOW PROFILE		
CLPF3600L	36"	1
CLPF4800L	48"	1
CLPF6000L	60"	1
ENVIRONMENTAL		
APF3600S	36"	2
APF3800S	38"	2
APF4200S	42"	2
APF4800S	48"	3
APF6000S	60"	4
APF3600L	36"	2
APF3800L	38"	2
APF4200L	42"	2
APF4800L	48"	3
APF6000L	60"	4

Grilles

- Optional anodized aluminum architectural grille for Environmental and Low-Profile Series air curtains.

Environmental

MODEL	SIZE	SHIP WT. (LBS.)
API036A	36"	5
API048A	48"	6
API060A	60"	7

Tamper Resistant Kit

- For use in schools, hospitals, correctional facilities or other locations prone to vandalism
- Prevents unauthorized access to air curtain.
- Complete tool and hardware package provided.

MODEL	SIZE	SHIP WT. (LBS.)
ACTRK	36"	2

