Cabinet Unit Heater Options Booklet









Cabinet Unit Heater Options

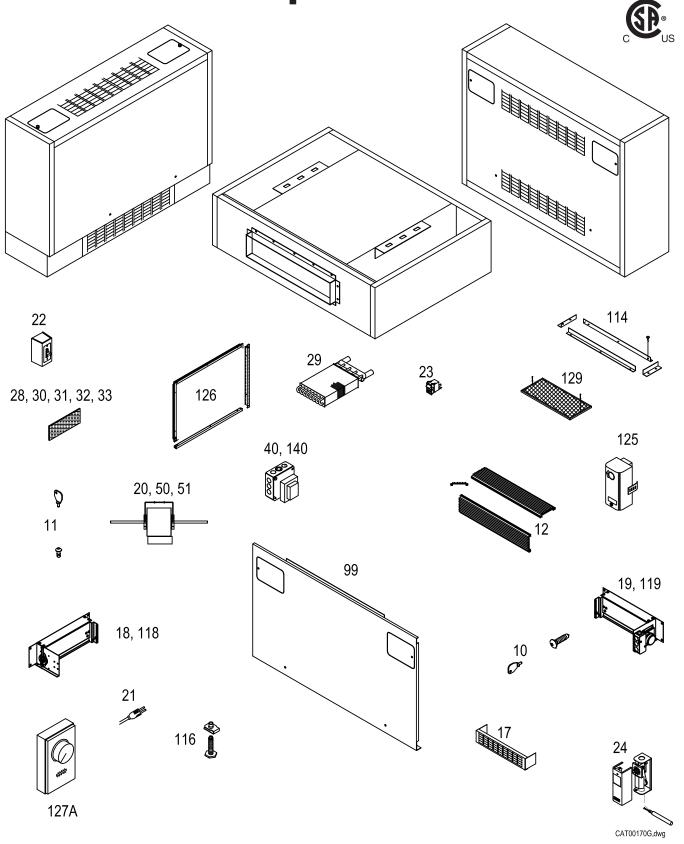


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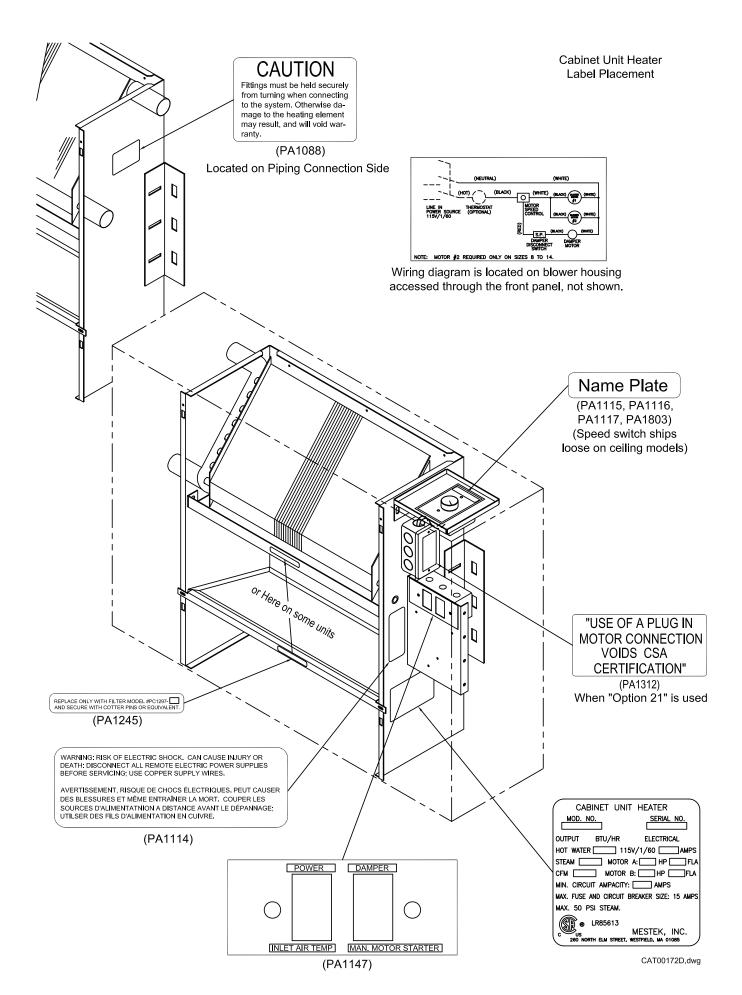
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MODELS, ARRANGEMENTS AND SIZES ARE DESIGNATED AS FOLLOWS:

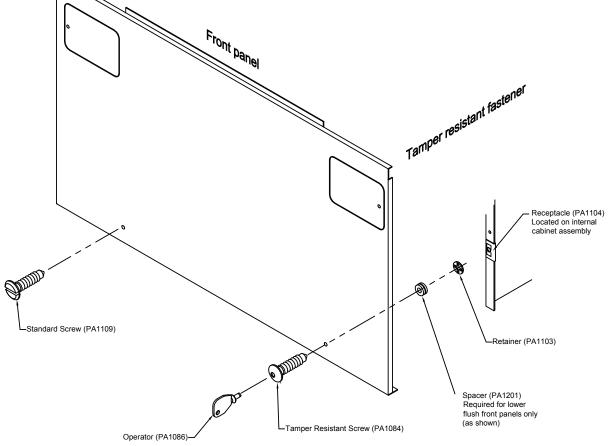
EXAMPLE

RC - 1190 - 08

MODEL ARRANGEMENT SIZE

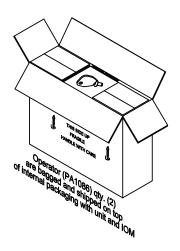




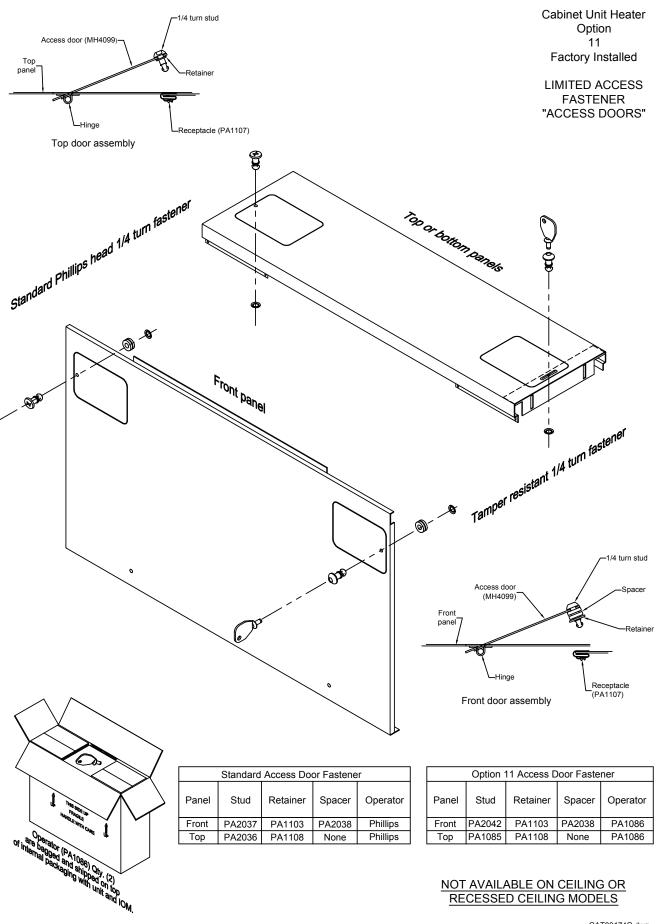


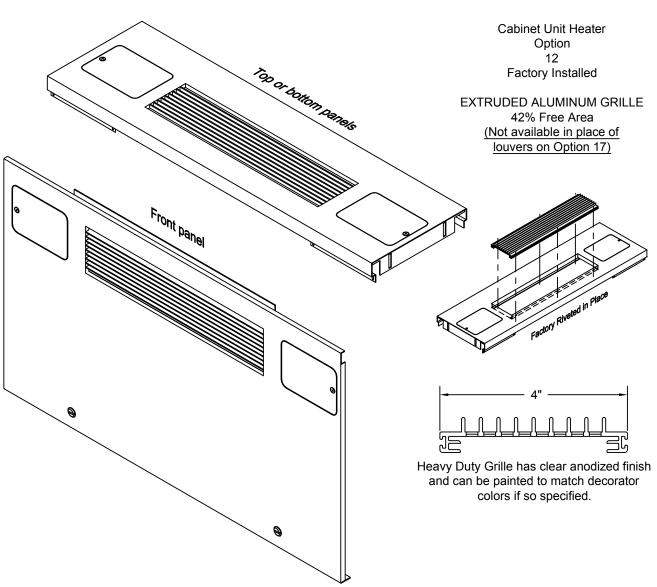
Standard Front Panel Fastener				
Screw Retainer Receptacle Spacer Operator				
PA1109	PA1103	PA1104	PA1201	Flat Blade

Option 10 Front Panel Fastener				
Screw Retainer Receptacle Spacer Operator				Operator
PA1084	PA1103	PA1104	PA1201	PA1086



AVAILABLE ON ALL MODELS





In place of standard Louvers

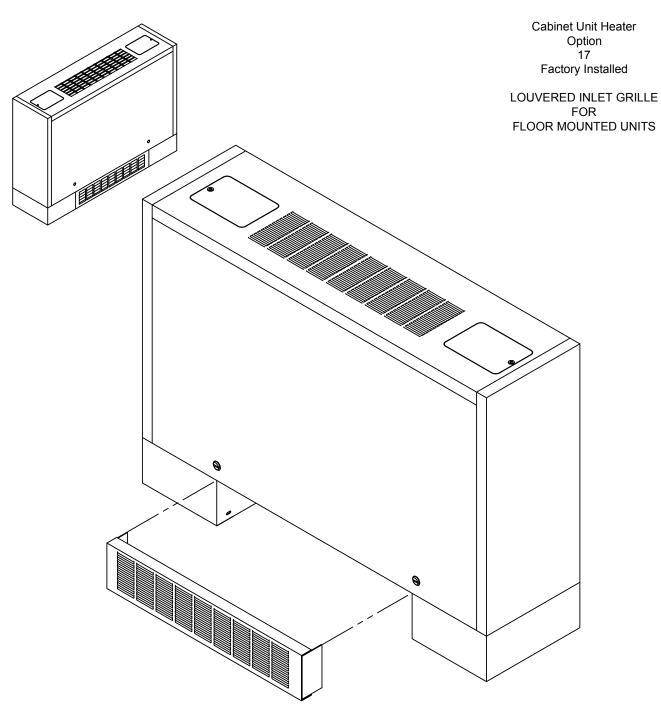
	Standard panel table			
Model	Front panel	Top panel	Bottom panel	
F-1000	MH-5500	MH-3500	-	
F-1010	MH-5500	MH-3500	-	
F-1020	MH-5502	MH-3014	-	
F-1030	MH-5502	MH-3014	-	
FI-1040	MH-5500	MH-3500	-	
FI-1050	MH-5502	MH-3014	-	
FS-1005	MH-5500	MH-3102	-	
FS-1015	MH-5500	MH-3102	-	
FS-1025	MH-5502	MH-3101	-	
FS-1035	MH-5502	MH-3101	-	
FSI-1045	MH-5500	MH-3102	-	
FSI-1055	MH-5502	MH-3101	-	
W-1060	MH-5506	MH-3500	MH-3534	
W-1070	MH-5509	MH-3014	MH-3534	
W-1080	MH-5513	MH-3014	MH-3014	
WI-1090	MH-5506	MH-3500	MH-3534	
WI-1100	MH-5509	MH-3014	MH-3534	
WI-1110	MH-5513	MH-3014	MH-3014	
RW-1120	MH-5513	MH-3014	MH-3014	
RWI-1130	MH-5513	MH-3014	MH-3014	
C-1140	MH-5153	MH-3534	MH-3534	
C-1150	MH-5153	MH-3050	MH-3534	
C-1160	MH-5151	MH-3014	MH-3534	
C-1170	MH-5150	MH-3014	MH-3014	
C-1180	MH-5152	MH-3534	MH-3014	
RC-1190	MH-5152	MH-3014	MH-3050	
RC-1200	MH-5150	MH-3014	MH-3014	
RC-1210	MH-5153	MH-3050	MH-3050	

	Ontion 12 table			
	Option 12 table			
Qty	Model	Front panel	Top panel	Bottom panel
1	F-1000	-	MH-3700	-
1	F-1010	-	MH-3700	-
1	F-1020	MH-5521	-	-
1	F-1030	MH-5521	-	-
1	FI-1040	-	MH-3700	-
1	FI-1050	MH-5521	-	-
1	FS-1005	-	MH-3103	-
1	FS-1015	-	MH-3103	-
1	FS-1025	MH-5521	-	-
1	FS-1035	MH-5521	-	-
1	FSI-1045	-	MH-3103	-
1	FSI-1055	MH-5521	-	-
2	W-1060		MH-3700	MH-3702
2	W-1070	MH-5522	-	MH-3702
2	W-1080	MH-5523	-	-
2	WI-1090		MH-3700	MH-3702
2	WI-1100	MH-5522	-	MH-3702
2	WI-1110	MH-5523	-	-
2	RW-1120	MH-5523	-	-
2	RWI-1130	MH-5523	-	-
2	C-1140		MH-3702	MH-3702
1	C-1150		-	MH-3702
2	C-1160	MH-5159	-	MH-3702
2	C-1170	MH-5155	-	-
2	C-1180	MH-5157	MH-3702	-
1	RC-1190	MH-5157	-	-
2	RC-1200	MH-5155	-	-
0	RC-1210	-	-	-

DECORATOR COLOR

A Decorator Color may be selected from our optional Color Chart. A prime coat of neutral eggshell baked powder is standard unless otherwise specified. This may be the final finish or it may be painted in the field if necessary. Option 13M includes three standard metallic colors.

STANDARD ENAMEL COLORS P-1 / White DB-1 / Dark Bronze VP-1 / Bright White DB-5 / Flat Black METALLIC COLORS Available at additional cost. Not available on Panel Radiators or Radiant Ceiling Panels. VP-2 / Egg Shell (Cabinet Unit Heater Prime) WB-2 / Almond SA-1 / Silver Aluminum SB-7 / Soft Dove MC-2 / Champagne SB-6 / Prime MC-3 / Bronze Mica These are color reproductions and approximate the actual colors as closely as possible. Although perfect color uniformity is practically impossible, you should expect only minor color variations. Special colors can be provided. Please consult the factory for price and samples. SB-1 / Light Grey

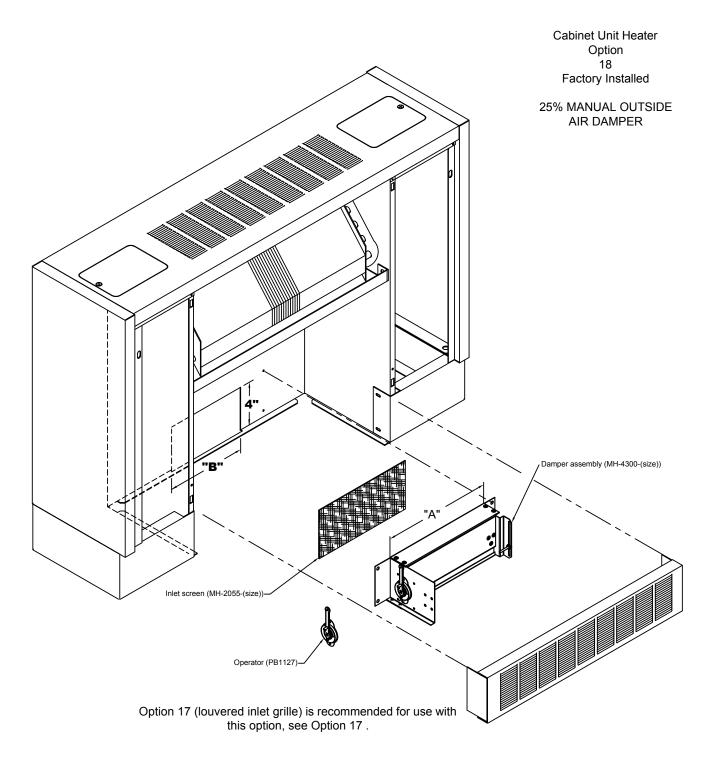


Recommended for use with Options 18, 19, 118, and 119 if used with F or FS units. 18 gauge steel, baked powder finish.

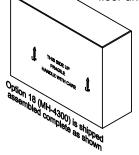
	Option 17			
Size	Part Number	Dimensions		
02	MH-4140-02	4" H x 19-51/64" Long		
03	MH-4140-03	4" H x 27-51/64" Long		
04	MH-4140-04	4" H x 31-51/64" Long		
06	MH-4140-06	4" H x 43-51/64" Long		
08	MH-4140-08	4" H x 45-51/64" Long		
10	MH-4140-10	4" H x 50-51/64" Long		
12	MH-4140-12	4" H x 57-51/64" Long		
14	MH-4140-14	4" H x 69-51/64" Long		

Standard on "FI" & FSI Models
Optional on "F" & FS Models

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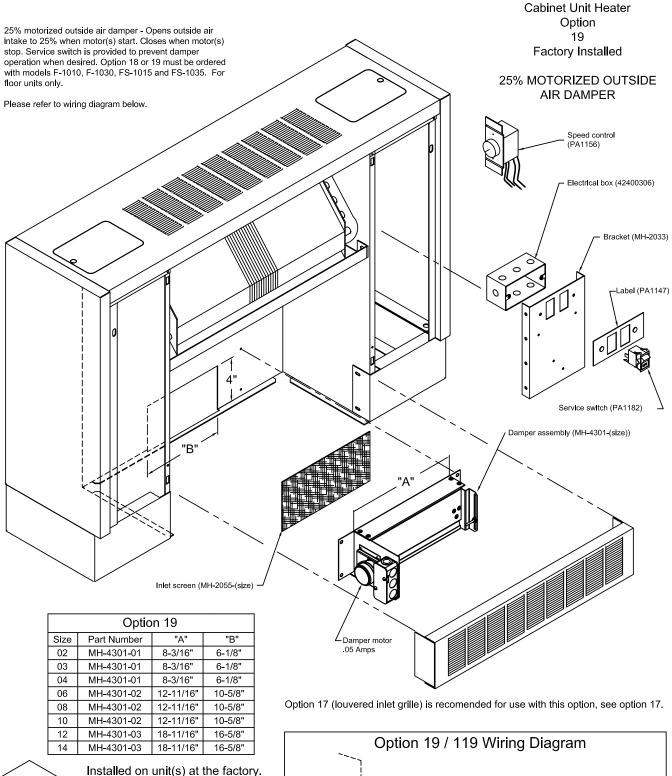
25% manual outside air damper - Outside air intake can be adjusted from 0 to 25%. Control is by manual quadrant. Option 18 or 19 must be ordered with models F-1010, F-1030, FS-1015 and FS-1035. For floor units only.



Installed on unit(s) at the factory.

Option 18				
Size	Part No.	"A"	"B"	
02	MH-4300-01	8-3/16"	6-1/8"	
03	MH-4300-01	8-3/16"	6-1/8"	
04	MH-4300-01	8-3/16"	6-1/8"	
06	MH-4300-02	12-11/16"	10-5/8"	
80	MH-4300-02	12-11/16"	10-5/8"	
10	MH-4300-02	12-11/16"	10-5/8"	
12	MH-4300-03	18-11/16"	16-5/8"	
14	MH-4300-03	18-11/16"	16-5/8"	

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Option 19 / 119 Wiring Diagram

(NEUTRAL)

(WHITE)

(HOT)

(BLACK)

(WHITE)

DAMPER SERVICE

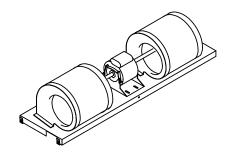
SWITCH

MOTOR

NOTE: MOTOR #2 REQUIRED ONLY ON SIZES 8 TO 14.

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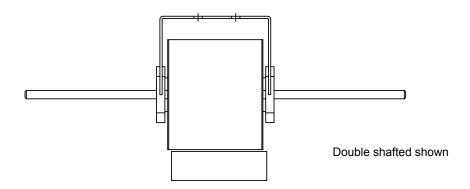
assembled complete as shown



Cabinet Unit Heater
Option
20
Factory Installed

HIGH STATIC MOTOR 1/11 HP, 1550 RPM 115/1/60 PSC

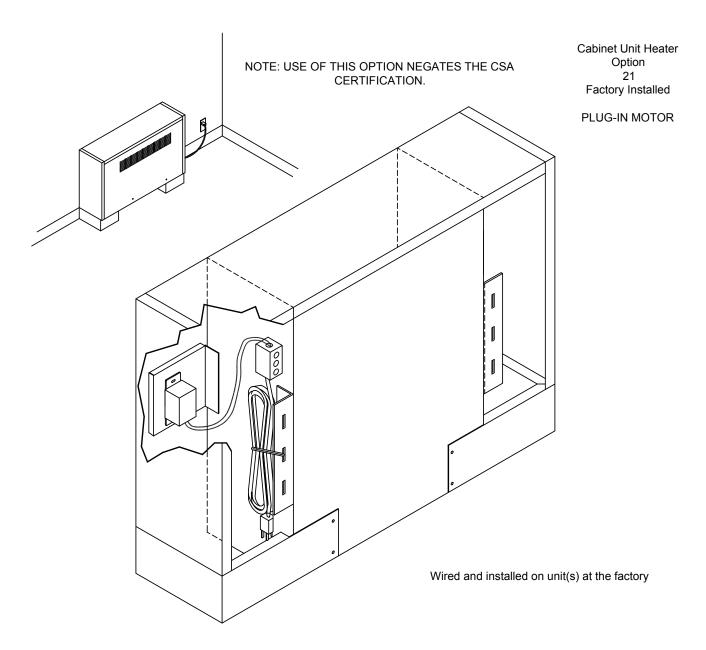
Maintains standard CFM against 0.4" W.C. max.



This option consists of a motor specified to overcome the external static pressure when duct work is attached to the inlet or outlet of the Cabinet Unit Heater. This motor is approximately the same physical size and configuration as the standard one; therefore, they are physically interchangeable. In terms of performance it is rated at 1/11 HP at 1550 RPM.

With this high static motor installed, the Cabinet Unit Heaters are able to maintain standard airflow with external static pressure up to 0.4" water column.

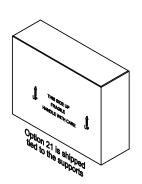
Standard motors		Option 20 motors			
Size	Part No.	Qty.	Part No.	Qty.	Amps
02	PA1620	1	PC1320 Single	1	1.24
03	PA1620	1	PC1320 Single	1	1.24
04	PA1621	1	PC1320 Double	1	1.24
06	PA1621	1	PC1320 Double	1	1.24
80	PA1620, PA1621	1 EA	PC1320 Single/Double	1 EA	2.48
10	PA1620, PA1621	1 EA	PC1320 Single/Double	1 EA	2.48
12	PA1621	2	PC1320 Double	2	2.48
14	PA1621	2	PC1320 Double	2	2.48

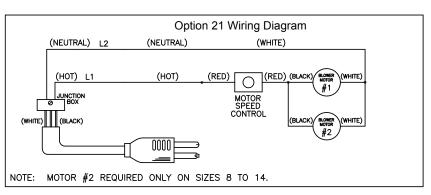


The cord (PA1130) is (UL) / CSA water resistant heavy duty grounded plug 90° C (- 40° C) 18/3. It is approx. 8'-0" long exiting the electrical box.

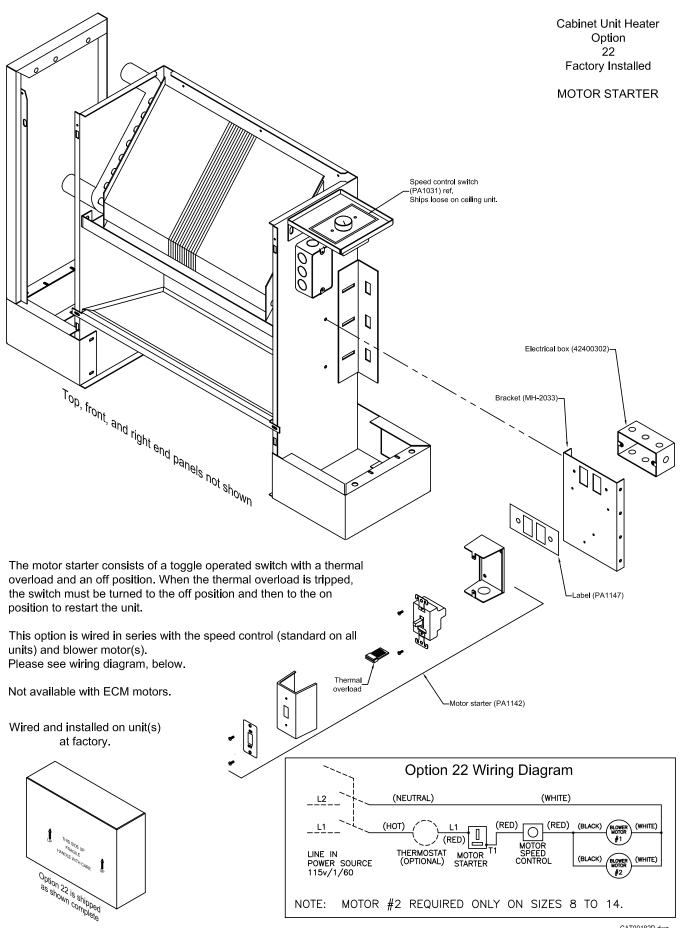
This is a plug-in cord for connection to a convenience outlet.

Shown with our floor model here, however, can be applied to all models.

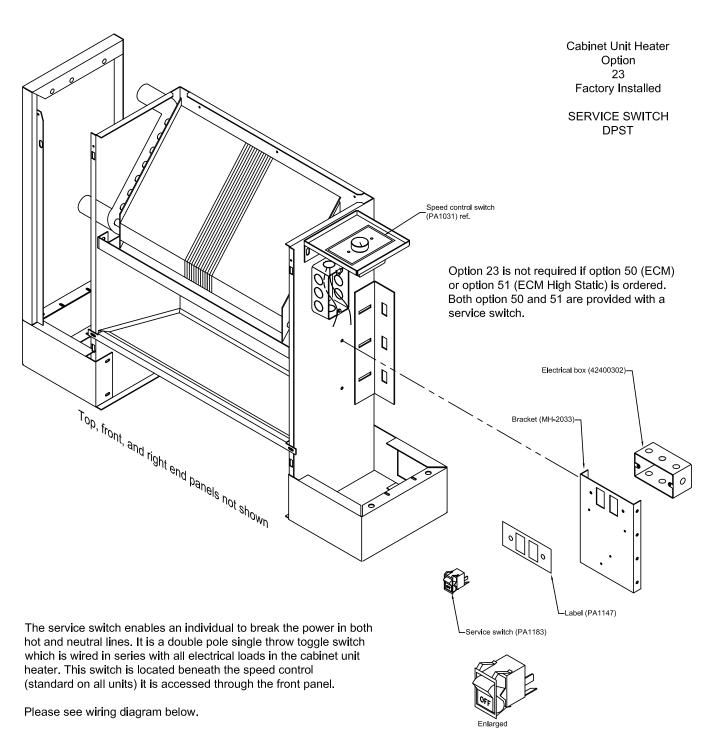




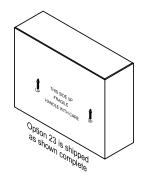
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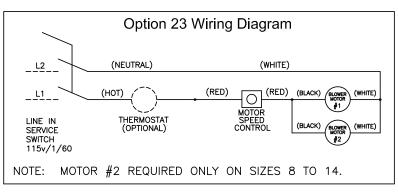


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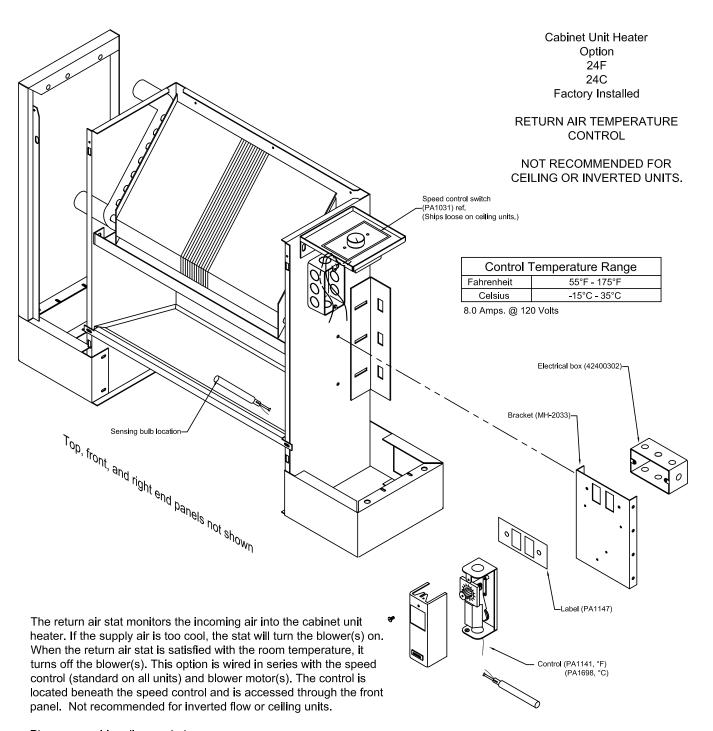


Wired and installed on unit(s) at factory.



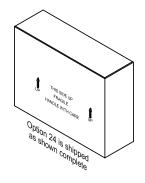


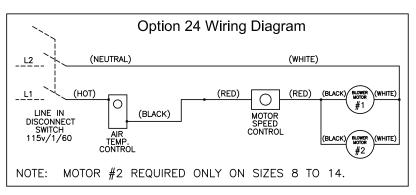
CAT00183E.dwg



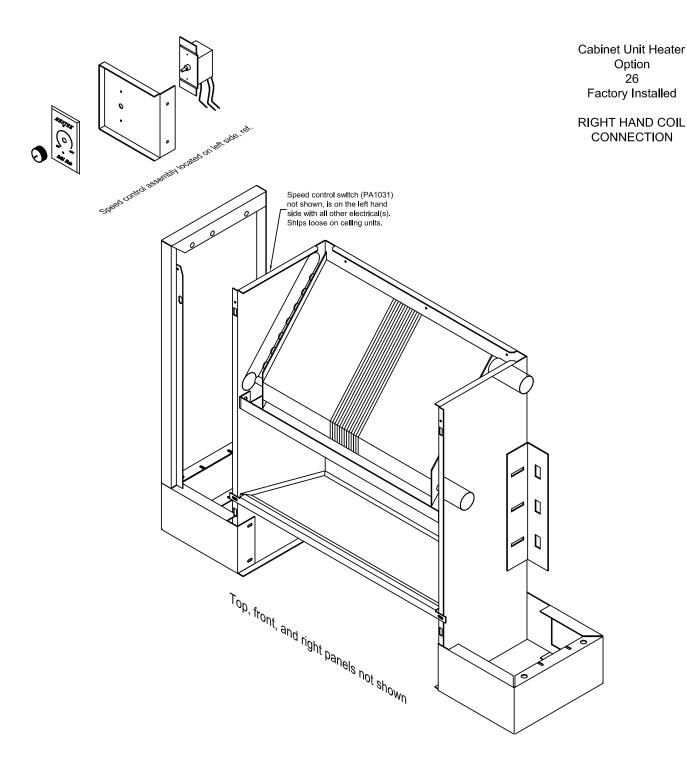
Please see wiring diagram below.

Wired and installed on unit(s) at factory

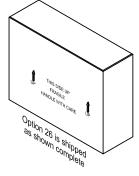




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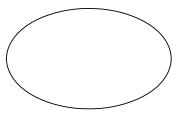


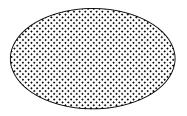
Coil will be factory mounted with piping connection on right hand side of unit. Electrical connection and speed control device will be factory wired and installed on left hand side of unit(s). Speed control ships loose on ceiling units.



Cabinet Unit Heater
Option
27
Factory Painted

SPECIAL COLOR
Consult Factory





Alternatives to the standard color offerings.

A Special Color Selection can be added to the job specification by either the architect or the owner. Due to the large number of colors and paint products available today, it is necessary to go through a submittal and approval process prior to a commitment.

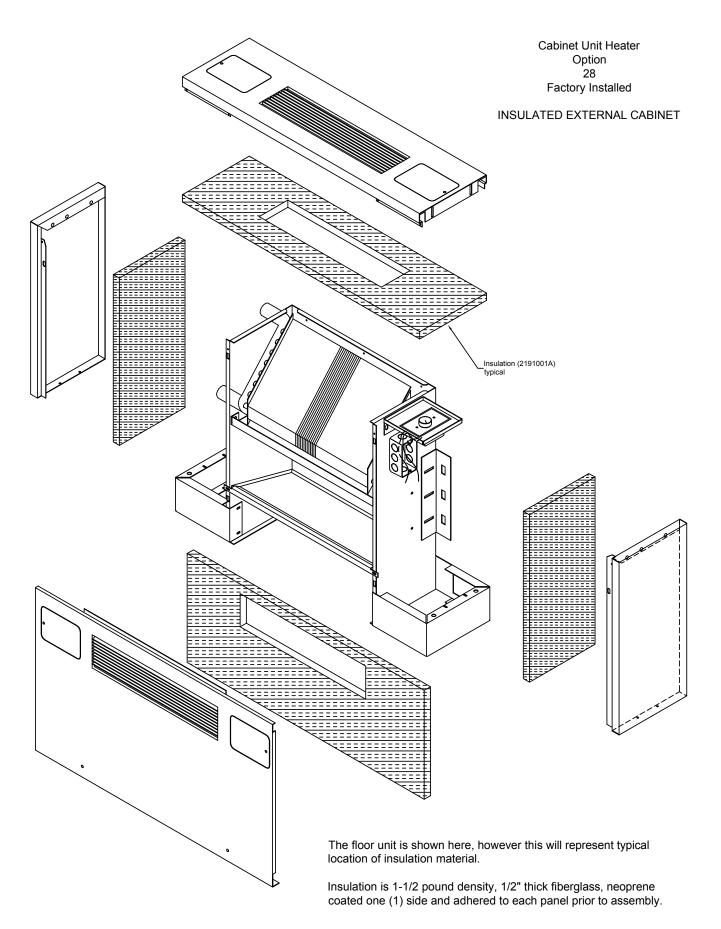
Please contact our sales staff for your inquiries.

Option 27 Special Color Procedure

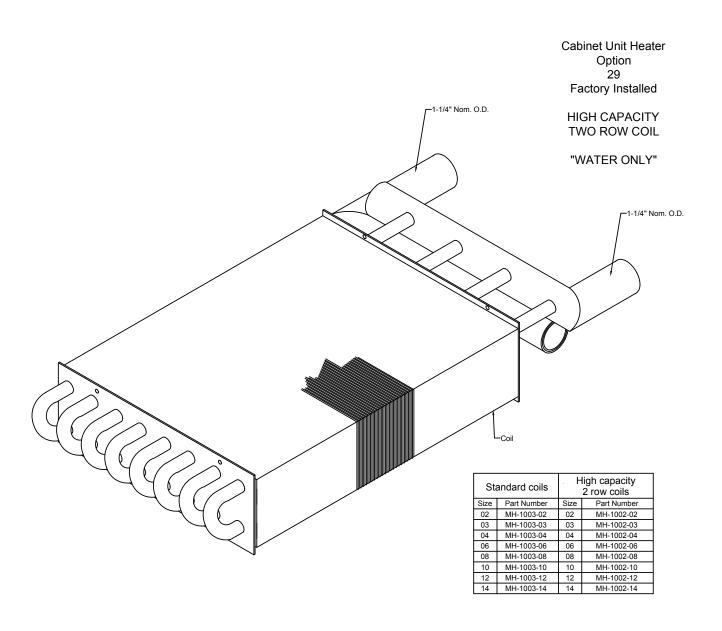
A minimum of two (2) or more samples, preferably on the material to be used by the factory (steel, aluminum, etc.) must be provided (submitted in advance of an order) to the factory. If possible, the paint manufacturer and manufacturers part number should also accompany the samples. If this is not possible, a chip from a color chart may be provided.

The factory will then select a paint manufacturer to formulate the match. Two (2) matched samples will be returned, for approval.

The factory will not produce product until one of the color samples is returned with a written approval.



CAT00187D.dwg



This is a Hot Water coil designed to provide increased capacity when the required load exceeds that of the standard coil for a given size. Fins are double depth and there are two rows of tubes.

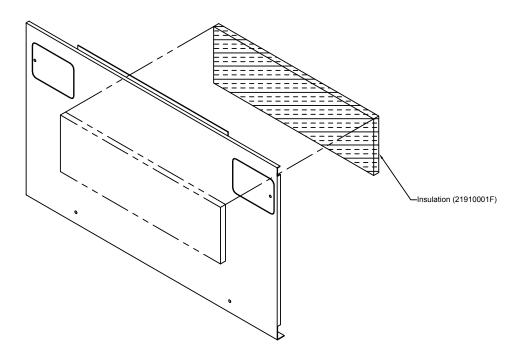
The durable mechanically bonded copper/aluminum coil presents the best of today's hydronic technology. Providing 12 fins per inch with 1/2" nominal diameter tubes, the ultimate in BTU capacity is provided without sacrificing noise, vibration or amp draw.

All units are designed so that field modifications can be made to reverse the coil position if required.

Cabinet Unit Heater Option 30 Factory Installed

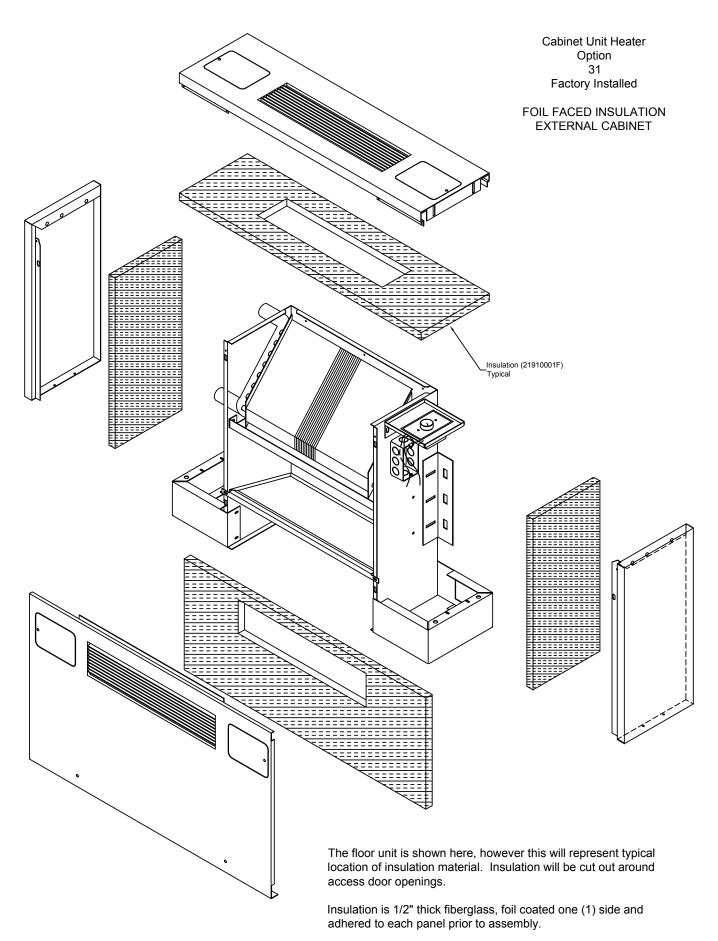
FOIL FACED INSULATION FRONT PANEL

(COIL AREA ONLY)



The floor unit front panel is shown here, however this will represent typical location of insulation material. Insulation will replace standard insulation around coil area only.

Insulation is 1/2" thick foil faced and adhered to front panel prior to assembly.

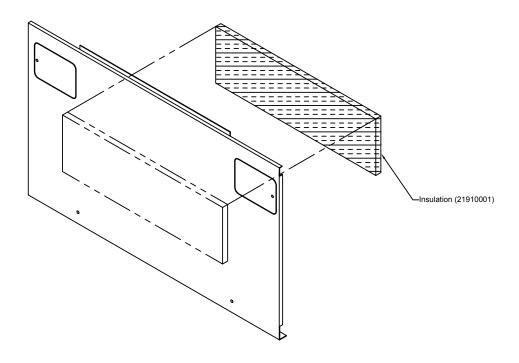


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Cabinet Unit Heater Option 32 Factory Installed

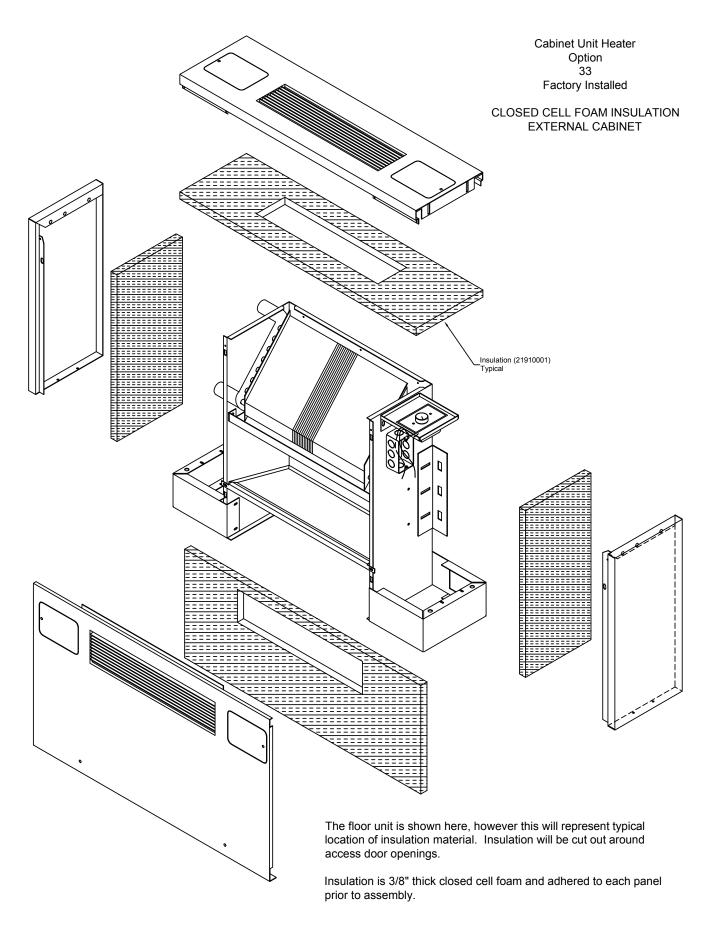
CLOSED CELL INSULATION FRONT PANEL

(COIL AREA ONLY)



The floor unit front panel is shown here, however this will represent typical location of insulation material. Insulation will replace standard insulation around coil area only.

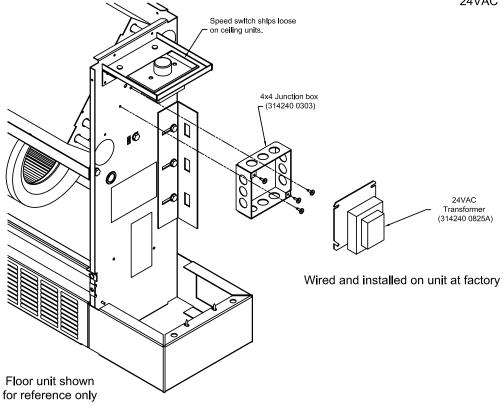
Insulation is 3/8" thick closed cell foam and adhered to front panel prior to assembly.



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Cabinet Unit Heater
Option
40
Factory Installed

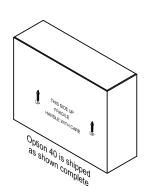
24VAC TRANSFORMER

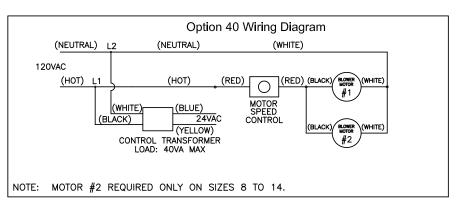


This option consists of a plate mounted 24VAC 40VA transformer and a 4x4 junction box. The 120VAC primary and 24VAC secondary connections are housed in the junction box.

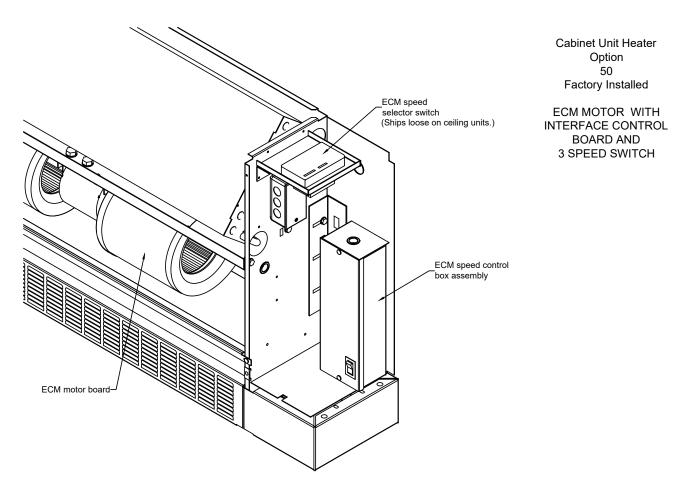
This can be used for powering 24VAC devices such as control boards, low voltage thermostats, relays, valves, etc. Transformer is rated for 40VA maximum load.

Please see wiring diagram below.



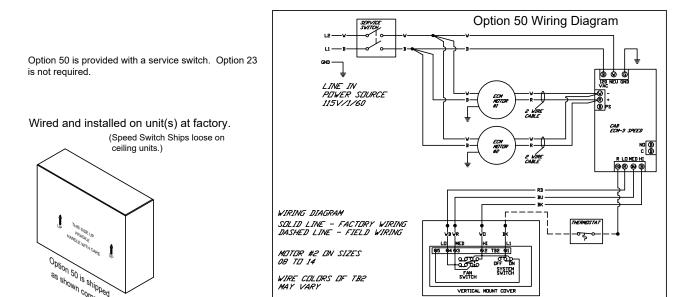


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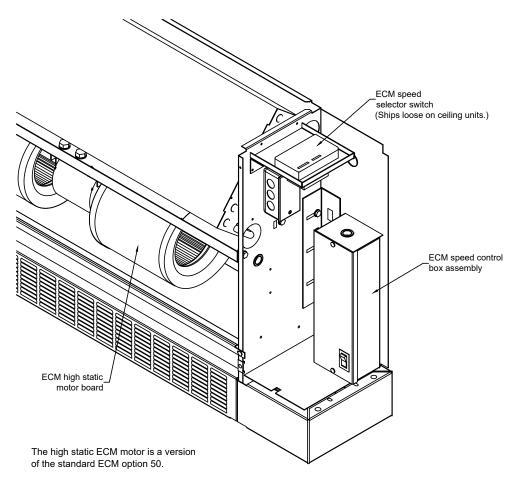


High efficiency Electronically Commutated Motors (ECM) utilize brushless DC motors which are coupled with an interface control board that provides speed control of the motors. When the thermostatic control calls for heat, the interface board will ramp the motor speed up to the RPM appropriate for the speed selector switch setting. The speed selector switch has four positions, Off-High-Medium-Low. The ramping up feature eliminates the need for an additional motor starter (Option 22 motor starter is not available with ECM). Thermostats with contacts rated for low voltage power will integrate easily with the variable speed capabilities to satisfy existing conditions.

Note: Thermostat option 127 can also be used in low voltage applications and is suitable for use with the ECM motors option.



CAT84361J.dwg



Cabinet Unit Heater
Option
51
Factory Installed

ECM HIGH STATIC MOTOR WITH INTERFACE CONTROL BOARD AND 3 SPEED SWITCH

Maintains standard CFM against 0.4 W.C. max.

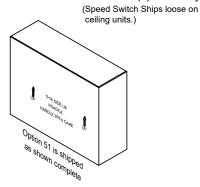
This option consists of an ECM motor specifically designed to overcome the external static pressure when duct work is attached to the inlet, outlet or both of the cabinet unit heater. This motor is approximately the same physical size and configuration as the standard ECM motor. In terms of performance, the RPM is 1550 whereas the standard ECM motor operates at 1050 RPM. With this factory installed high static motor option, the cabinet unit heater will operate to maintain standard air flow (CFM) with external static pressures up to .4" water column. (Not available on sizes 12 or 14)

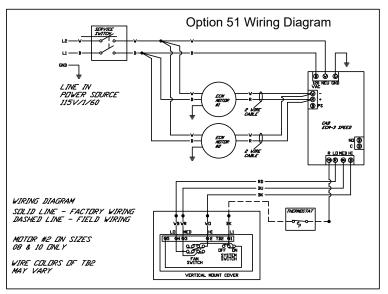
The high efficiency electronically commutated motors (ECM) utilize brushless DC motors which are coupled with an interface control board that provides speed control of the motors. When the thermostatic control calls for heat, the interface board will ramp the motor speed up to the RPM appropriate for the speed selector switch setting. The speed selector switch has four positions, Off-High-Medium-Low. The ramping up feature eliminates the need for an additional motor starter (Option 22 motor starter is not available with ECM). Thermostats with contacts rated for low voltage power will integrate easily with the variable speed capabilities to satisfy existing conditions.

Note: Thermostat Option 127 can also be used in low voltage applications and is suitable for use with the ECM motors option.

Option 51 is provided with a service switch. Option 23 is not required.

Wired and installed on unit(s) at factory.

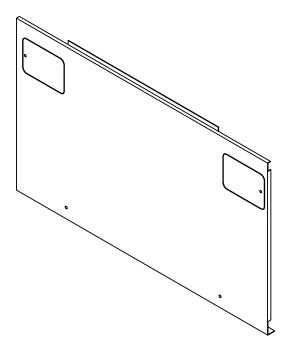




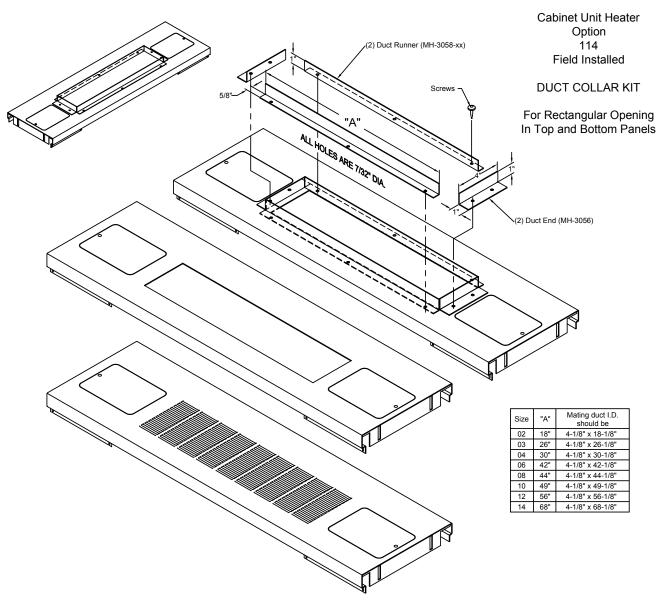
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Cabinet Unit Heater Option 99 Factory Installed

14 GAUGE FRONT PANEL



The floor unit front panel is shown for reference. Access doors and inlet/outlet locations will vary by model.

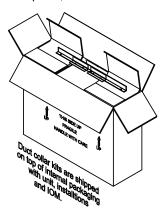


It is recommended that the louver area is cut out prior to duct collar installation.

Duct collars are intended to be used with louvers cut away as shown.

To install:

Unpack cabinet unit heater. Place unit upright, align duct end/runners in place, drill and secure.

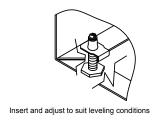


	Kit contents				
Unit Size	Runner (2 each)	End (2 each)			
02	MH-3058.02	MH-3056			
03	MH-3058.03	MH-3056			
04	MH-3058.04	MH-3056			
06	MH-3058.06	MH-3056			
08	MH-3058.08	MH-3056			
10	MH-3058.10	MH-3056			
12	MH-3058.12	MH-3056			
14	MH-3058.14	MH-3056			

Note:

Duct collar kits are standard on models C-1150, RC-1190 and RC-1210.

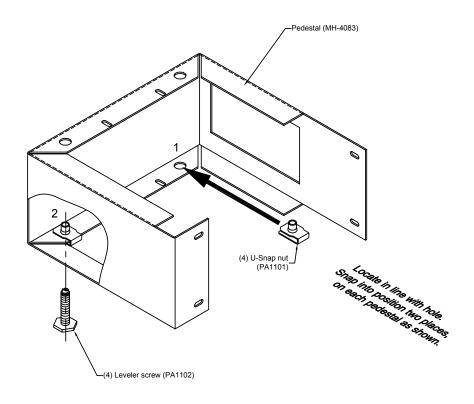
CAT00189C.dwg



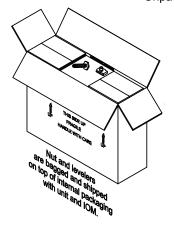
Cabinet Unit Heater
Option
116
Field Installed

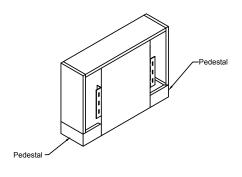
LEVELING LEGS FOR FLOOR MOUNTED UNITS

View shown with pedestal removed from unit



To install: Unpack cabinet unit heater. Lay unit flat on its back, and follow the above instructions.

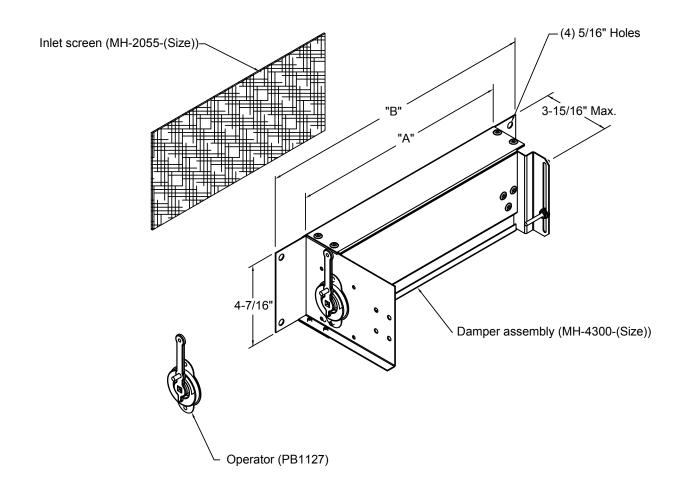




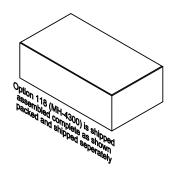
CAT00190D.dwa

Cabinet Unit Heater Option 118 Field Installed

25% MANUAL OUTSIDE AIR DAMPER

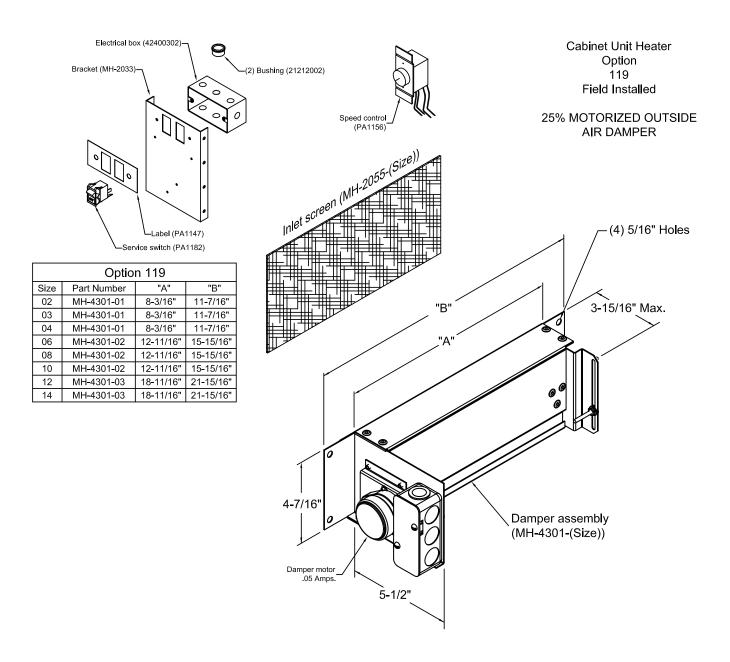


25% manual outside air damper - outside air intake can be adjusted from 0 to 25%. Control is by manual quadrant. For use on floor units only.



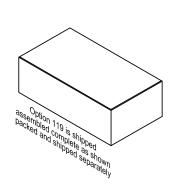
Option 118			
Size	Part Number	"A"	"B"
02	MH-4300-01	8-3/16"	11-7/16"
03	MH-4300-01	8-3/16"	11-7/16"
04	MH-4300-01	8-3/16"	11-7/16"
06	MH-4300-02	12-11/16"	15-15/16"
80	MH-4300-02	12-11/16"	15-15/16"
10	MH-4300-02	12-11/16"	15-15/16"
12	MH-4300-03	18-11/16"	21-15/16"
14	MH-4300-03	18-11/16"	21-15/16"

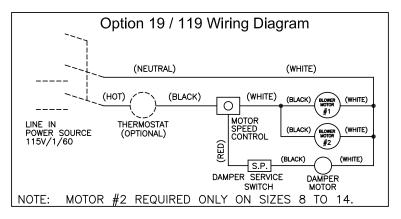
CAT00191C.dwg



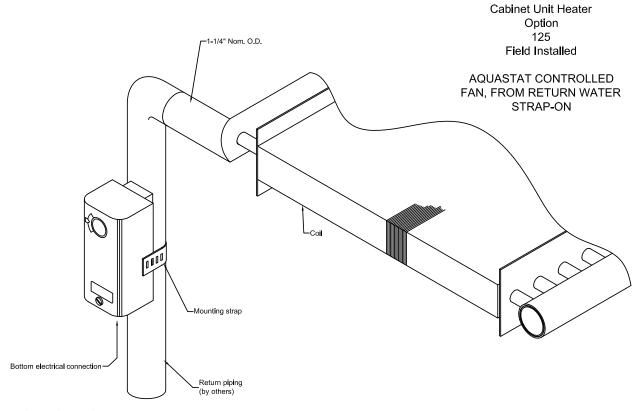
25% motorized outside air damper kit for field installation. - opens outside air intake to 25% when motor(s) start. Closes when motor(s) stop. Service switch is provided to prevent damper operation when desired. For use on floor units only. See Option 17, available for field installation.

Please refer to wiring diagram below.





CAT-00192F.dwg



Approx. Size: 4-3/8"H x 2-1/8"W x 2-1/2"D

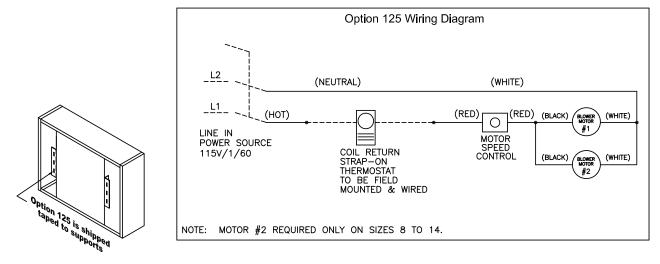
Temperature range: 100°F - 240°F

10 Amps @ 120 Volts 6 Amps @ 240 Volts

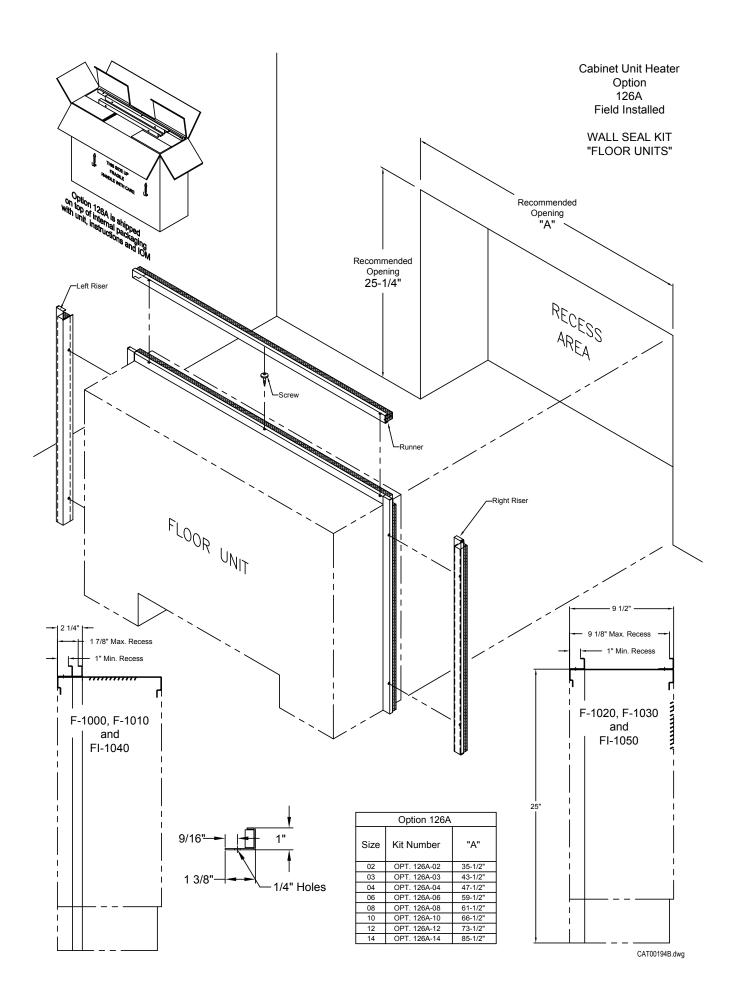
This option consists of a return stat. The coil return stat is a strap-on type control which is located on the return piping line of the coil. The return line on a hot water heating system is the top piping outlet. The supply line of a system is the bottom piping inlet.

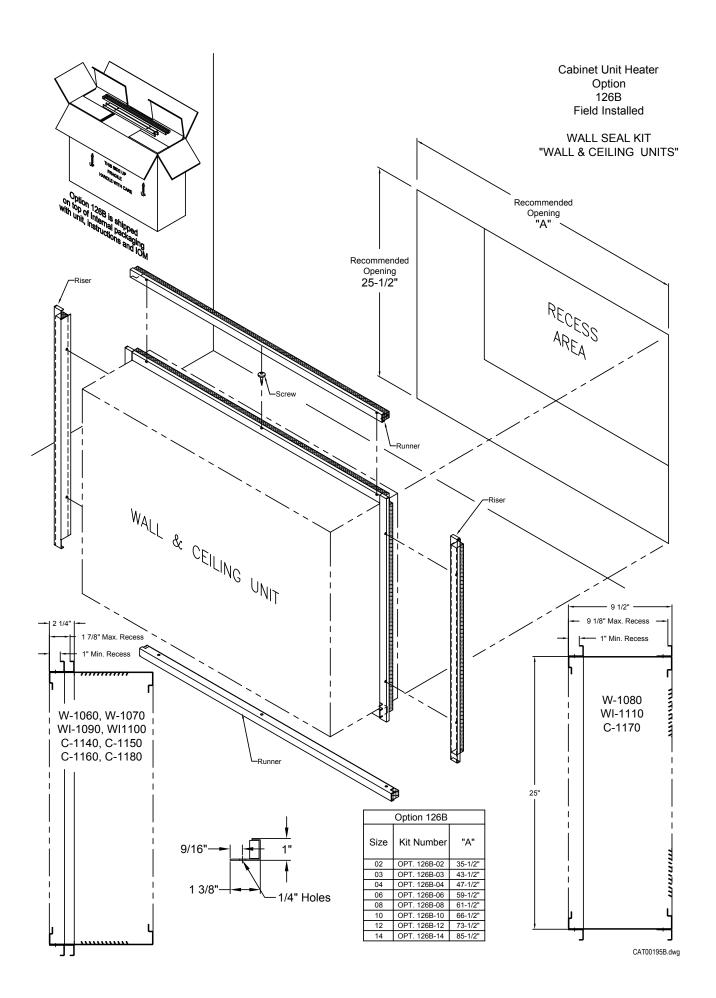
When the heating system is turned on and hot water (or steam) is circulated, the coil return stat will not turn on the motor(s) until the temperature of the return line arrives at the temperature set on the coil return stat. Once that temperature has been reached, the coil return stat enables the motor(s) to start.

The coil return stat is to be wired in series with the speed control (standard on all units) and the motor(s). Please see wiring diagram.



CAT00193B.dwg





WALL SEAL INSTRUCTIONS

CABINET UNIT HEATERS

7/16" Projection by 1" Wide Wall Seal Kit

INSTALLATION INSTRUCTIONS

PREPARATION:

The design of these cabinets and wall seal frames allows recessing of all models per the Wall Seal schedule (Fig. 1) shown below:

Fig. 1

MODEL	These Models may be Partially or Fully Recessed	These Models may be Partially Recessed only (2 1/4" Max.)
F	F-1020, F-l030	F-1000, F-1010
FI	FI-1050	FI-1040
W	W-1080	W-1060, W-1070
WI	WI-1110	WI-1090, WI-1100
С	C-1170	C-1140, C-1150 C-1160, C-1180

STEP 1:

Measure depth unit is to be recessed (usually this is the distance from face of finished wall to back of recess). Add 7/16". Measure this distance from the back of the cabinet and mark the top and side of the cabinet. This will be the location of the exposed face of the wall seal.

STEP 2:

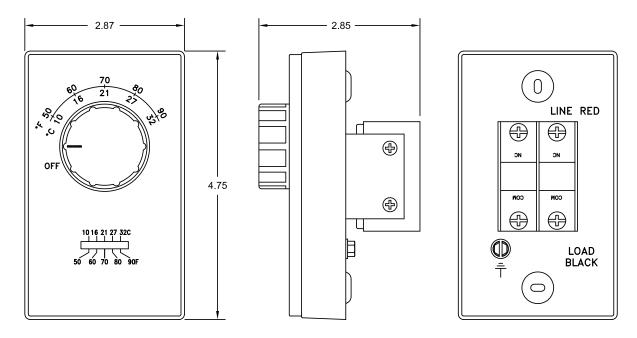
Position the wall seal top section (and bottom section for wall and ceiling application) with mounting holes against cabinet (overlap edge 1/4" each end). Mark through the pre-punched holes. Using a short 9/64 or 5/32" drill, drill into the cabinet at those marks. DO NOT DRILL INTO THE COIL. Attach using 5/8" long sheet metal screws (furnished).

STEP 3:

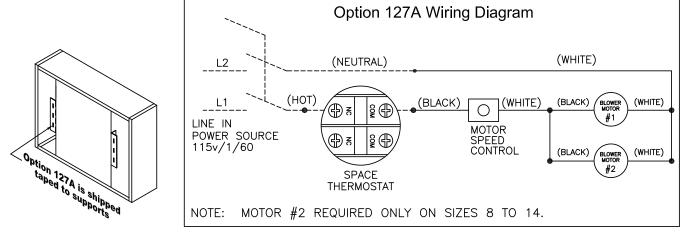
Position the wall seal side sections with mounting holes against the cabinet side with the face of section at line marked in Step 1. Slide section over top (and bottom if applicable) section and attached as in Step 2.

Cabinet Unit Heater
Option
127A
Field Installed

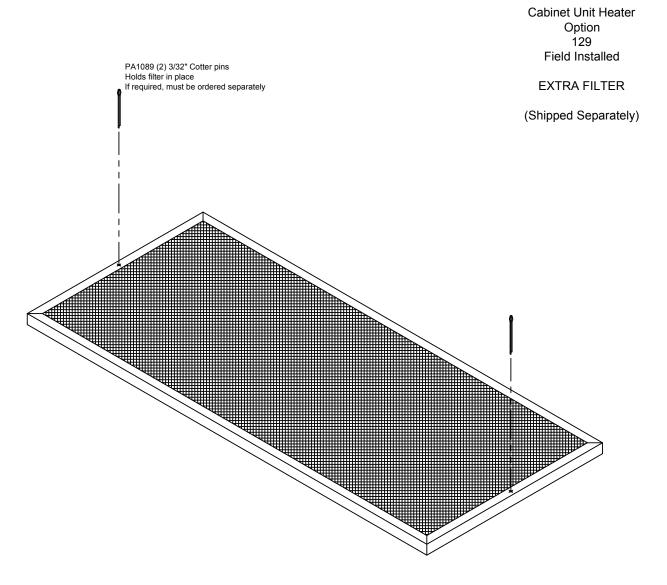
LINE VOLTAGE ROOM (WALL) THERMOSTAT



Line voltage room (wall) thermostat - Heating only Temperature range 50°F - 90°F. Rated 22.0 Amps @ 120 VA.



CAT00197E.dwg

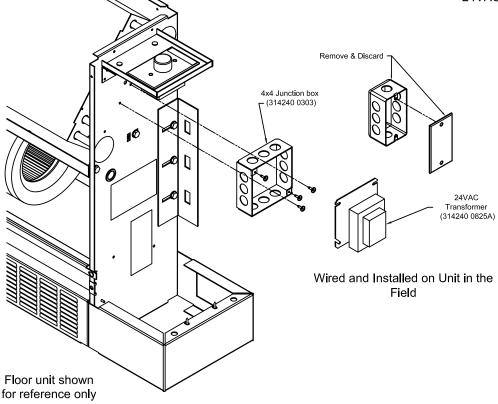


Permanent washable "EVK" type filter Aluminum frame, expanded aluminum pad, UL CLASS 2 .06 SP @ 350 FPM $\,$

	Standard Filters				
OPTION	SIZE	Part Number	Filter Dimensions		
129	02	PC1297-02	15/32"H x 8-11/16"D x 19-3/4"L		
129	03	PC1297-03	15/32"H x 8-11/16"D x 27-3/4"L		
129	04	PC1297-04	15/32"H x 8-11/16"D x 31-3/4"L		
129	06	PC1297-06	15/32"H x 8-11/16"D x 43-3/4"L		
129	80	PC1297-08	15/32"H x 8-11/16"D x 45-3/4"L		
129	10	PC1297-10	15/32"H x 8-11/16"D x 50-3/4"L		
129	12	PC1297-12	15/32"H x 8-11/16"D x 57-3/4"L		
129	14	PC1297-14	15/32"H x 8-11/16"D x 69-3/4"L		

Cabinet Unit Heater
Option
140
Field Installed

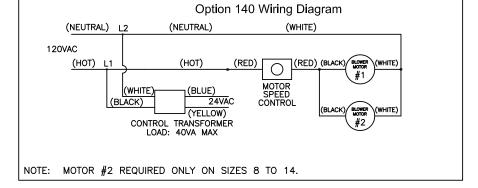
24VAC TRANSFORMER

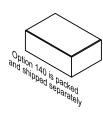


This option consists of a plate mounted 24VAC 40VA transformer and a 4x4 junction box. This replaces the standard 2x4 junction box and cover when field installed. The 120VAC primary and 24VAC secondary connections are housed in the junction box.

This can be used for powering 24VAC devices such as control boards, low voltage thermostats, relays, valves, etc. Transformer is rated for 40VA maximum load.

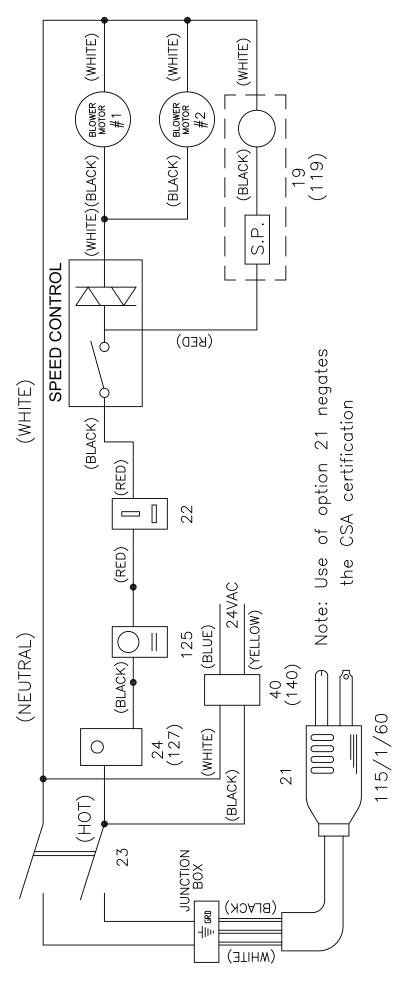
Please see wiring diagram below. Note: when used with a service switch, wire the transformer primary to the output of the service switch.





CAT80568B.dwg

STANDARD CABINET UNIT HEATER WIRING DIAGRAM 115 VOLT



Options: 19,21,22,23,24,40,125,127

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J	>	Z	>	\succ	\forall	>	>	>	>	\succ	\succ
CSA	\succ	Ν	\succ	Y	Y	Y	Y	Y	Y	λ	Y
PART NUMBER CSA	PB1121,PA1182	PA1130	PA1142	PA1183	PA1141	PA1698	314240 0825A	PA1131	PA1143	PA1031	PA1156
DESCRIPTION	19/119 MOTORIZED DAMPER	POWER CORD	MOTOR STARTER W/ HTR	SERVICE SWITCH	RETURN AIR T'STAT (°F)	RETURN AIR I'STAT (°C)	40/140 24VAC TRANSFORMER	AQUASTAT	WALL T'STAT	SPEED CONTROL 2 WIRE	19/119 SPEED CONTROL 3 WIRE
OPTION	19/119	21	22	23	24	24C	40/140	125	127		19/119

CAT00199D.dwg

On all ceiling/recessed units the speed control is shipped packed with unit for wall mounting and wiring.

