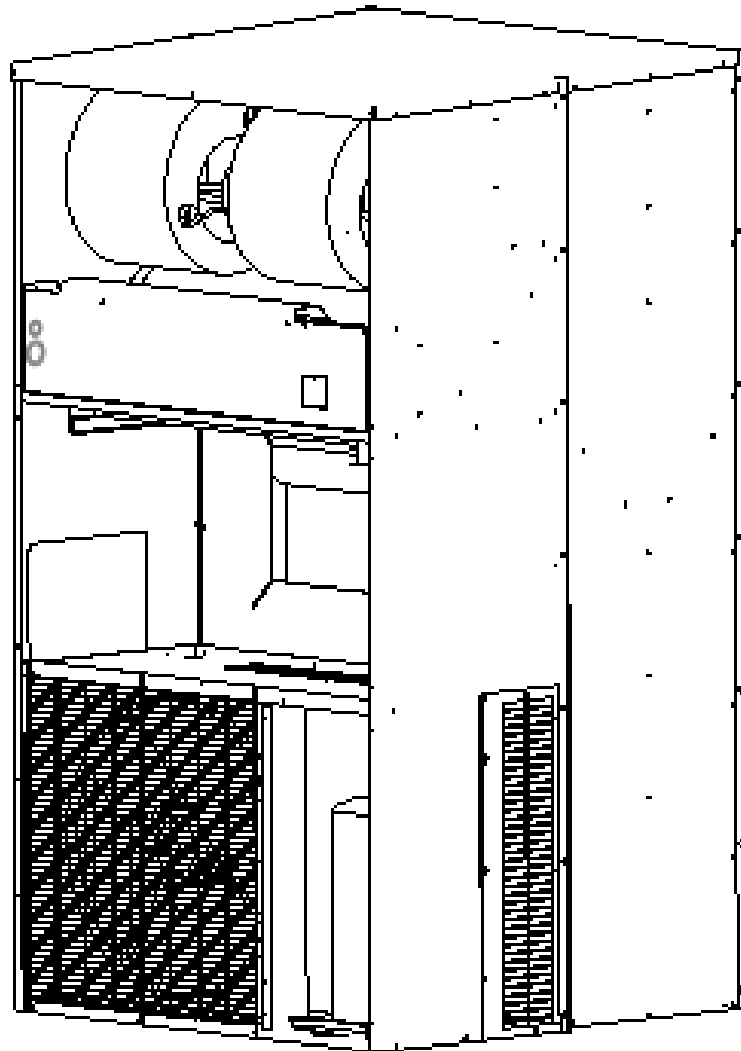


Installation, Operation and Maintenance

SV SERIES Ultra Quiet 10+ EER Wallmount Air Conditioner



Your equipment is covered by a LIMITED WARRANTY against defects in material and workmanship.

This is a vertical, wallmount unit designed for many different applications in both residential and commercial settings. It is self-contained and arrives completely assembled, factory-charged and wired. The unit is 100% run-tested at the factory to ensure proper operation. Your unit is supplied with high-quality copper tubing and enhanced aluminum-finned coils for high heat transfer efficiency and long life. The unit cabinet is constructed of G-90 galvanized steel. All exterior surfaces are finished with a baked-on polyester coating. This will provide excellent corrosion protection in most applications. However, if the unit is installed in an area with a corrosive atmosphere, such as near an industrial plant or on the seacoast, additional coating should be considered to extend the life of the coils and cabinet.

This unit was designed for up to 105°F of ambient temperature.

INSPECTION AND UNPACKING

A thorough inspection of the shipping container should be made immediately upon receiving your unit. Look for any punctures or openings. If it appears as if damage has occurred, it should be noted on the freight bill before signing. The delivering carrier should be contacted immediately to inspect damage, and no installation work should begin until this inspection is completed.



DANGER: BEFORE PERFORMING ANY WORK ON THIS EQUIPMENT, POWER SUPPLY MUST BE TURNED OFF AT THE HOUSEHOLD SERVICE BOX TO AVOID THE POSSIBILITY OF SHOCK, INJURY, DEATH, OR DAMAGE TO EQUIPMENT.

SAFETY RULES



WARNING: FAILURE TO FOLLOW THESE RULES AND INSTRUCTIONS COULD CAUSE A MALFUNCTION OR DESTRUCTION OF EQUIPMENT WHICH COULD RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, OR DEATH.

1. Installation and repair MUST be done by a qualified person. The equipment should be inspected before use and at least once annually by a professional service person.
2. **AVOID ELECTRICAL SHOCK!** Turn power OFF when servicing. There may be more than one disconnect switch to de-energize unit.
3. Close cover(s) before returning breaker(s) to "ON" position.
4. Please observe good safety practices by wearing personal protective equipment such as gloves and safety glasses to avoid injury.
5. Installation MUST conform to local codes. In the absence of local codes, refer to the National Electrical Code (NEC), ANS/NFPA No. 70-1993 and recommendations made by the National Board of Fire Underwriters.

In our continuing effort to improve our product, specifications may change without notice. If there are any questions, please see the contact information on the last page of this manual.

In all cases, the equipment MUST be installed in accordance with the installation instructions described in this manual.



WARNING: IMPROPER INSTALLATION MAY DAMAGE EQUIPMENT, CAN CREATE A HAZARD, AND WILL VOID THE WARRANTY

OPERATING INSTRUCTIONS

If heating and cooling functions are controlled by separate thermostats, turn the furnace thermostat to the "OFF" position during the cooling season to prevent simultaneous operation of the heating and cooling systems. Reverse the procedure during the heating season.

If the same thermostat controls both heating and cooling functions, set the thermostat to either HEAT or COOL as desired.

Set the desired temperature on your thermostat and set the fan switch to "ON" (for continuous air circulation) or to "AUTOMATIC" (for air circulation only when the A/C system is operating).

IMPORTANT: Wait at least three (3) minutes after turning the air conditioner off before trying to restart. If an attempt is made to start the compressor before the refrigerant pressures are equalized, the compressor motor may trip on its overload. An additional waiting period will be required before restarting.

MAINTENANCE

1. Always install and keep filters clean. Check filters every 2 weeks. Clean or replace if necessary. The factory-installed filter is located behind the center front access panel.

TO CHANGE SYSTEM FILTER:

- A. Turn the power to the unit off at the unit disconnect. The disconnect is located on the front of the S Series unit behind a small access door.
- B. Remove the front center access door from the unit.
- C. Remove and replace the filter with the type and size indicated in the table below.
- D. Replace the access door and turn on the power to the unit.

NOTE: If your system has a filter grille installed in the return air opening, the unit filter should have been discarded during installation.

The filter installed into the return air grille assembly should be replaced with the same size and type provided with the grille.

If your system is equipped with a fresh air intake, the filter for the fresh air assembly is accessed through the front center panel. The filter is a permanent washable type.

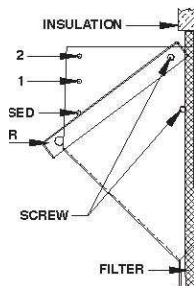
UNIT MODEL	QTY.	FILTER SIZE	TYPE
36	1	16 x 30 x 1	(standard) Disposable
36	1	16 x 30 x 2	(optional) Pleated
48, 60	1	20 x 30 x 1	(standard) Disposable
48, 60	1	20 x 30 x 2	(optional) Pleated



WARNING: SERIOUS INJURY MAY RESULT IF WATER SPRAY IS DIRECTED TOWARD LIVE ELECTRICAL CONNECTIONS OR POWER SOURCES.

TO CLEAN FRESH AIR INTAKE FILTER:

- A. Follow steps A and B at left "TO CHANGE SYSTEM FILTER".
- B. Gently pull out the filter from the bottom.
- C. Wash the filter with water.
- D. Reinstall the filter, by sliding it into the retaining rail.
- E. Replace the access door and turn the power on to the unit.



2. Keep the outdoor coil clean. Wash it down with a garden hose if necessary.

BE SURE THE UNIT DISCONNECT IS IN THE "OFF" POSITION AND THAT ALL ELECTRICAL POWER TO THE UNIT IS TURNED OFF BEFORE CLEANING THE SYSTEM.

Remove any loose grass, leaves, papers, etc., from the area around the condenser coil. These could reduce the air supply through the coil and reduce the amount of cooling capacity.

3. Since the unit is located outdoors, it is exposed to all weather elements. Treat it with a good automobile paste wax twice a year (in the spring and fall).

Check with your contractor if you have any questions regarding the maintenance or operation of your unit.

INSTALLATION

A. CODES

The installer SHALL comply with all local, state, and federal codes and/or regulations pertaining to this type of equipment and its installation. Such codes and/or regulations should take precedence over any recommendations contained herein.

Installations SHALL be made in accordance with the National Electrical Code, local codes, and recommendations made by the National Board of Fire Underwriters.

B. UNIT SITE SELECTION

1. To eliminate noise from being transmitted into noise sensitive areas, the unit should **NOT** be installed on walls adjoining bedrooms, sleeping quarters, or adjacent to windows. To further reduce interior space noise levels, the unit should be installed in a reinforced location.
2. Locating the unit as close as possible to the main duct system or area to be conditioned, will prevent lengthy duct runs and unnecessary thermal and air-pressure losses.
3. The clearance to combustibles is 0" on all sides, and 1/4" for the first three (3) feet of supply duct.
4. The condenser air inlets (left, right and bottom inlets) SHALL be located at least 8" away from walls or other obstructions for unrestricted airflow.
5. The condenser air outlet should be located at least 6' away from any obstructions to prevent recirculation of condenser air.
6. Bottom of the unit SHALL be located at least 12" away from the ground or other obstructions for unrestricted airflow.
7. Service clearance is 28" from the electrical box access panel located on the front of the unit and 28" from the center, upper, and lower front access panels.
8. The wall selected for unit installation **MUST** be able to or be made to safely support the weight of the unit.
9. Do **NOT** locate where heat, lint or exhaust fumes will be discharged on the unit (as from dryer vents).

C. UNIT PREPARATION

1. The S Series model units have a separate top rain flashing accompanying the unit. The bottom-mounting flange for all models is shipped separately and in place. (Refer to "Section J. Unit Installation" for the recommended use of the bottom flange.)
2. Electrical entrances are located on the right side and left side of all S Series units. Refer to "Section H. Electrical Hook-up" for details.
3. Firmly attach return and supply air collars to the wall and install foam air gaskets.
4. The supply and return air ducts should be checked to be sure they:
 - a. Match the openings on the unit to be installed.
 - b. Have the same distance between them vertically as the openings on the unit to be installed.
5. Return and supply grilles must be used when the return and supply are not ducted.
6. If the factory-installed filter is used on your installation, access to the filter is made through the center panel on the front of the unit.

IF A REMOTE FILTER IS USED, SUCH AS A FILTER GRILLE, THE FACTORY-INSTALLED FILTER MUST BE REMOVED AND DISCARDED.

D. DUCTWORK

1. Properly-sized duct systems are critical for satisfactory operation of any air conditioning system. All ductwork **MUST** be correctly sized for the design air flow requirement of the equipment.
2. For increased static pressure operation, connect the orange and red wires on the Indoor Blower Motor (IBM) Signal Cable.
3. The recommended operation duct static is to deduct 0.07" W.C. for any size of heater 5 kW to 20 kW on factory or field-installed heaters.
4. Ductwork routed through wall cavities, as well as any duct not in conditioned space, **MUST** be insulated. Supply ducting routed through exterior walls **MUST** be insulated with 1" insulation to the back of the unit.
5. Supply and return air ducts should be flush with the exterior wall and sized to fit over the unit duct collars in order to compress the collar air gasket.
6. **If supply duct is flashed to the exterior of a building constructed with combustible material, the flashing **MUST** be insulated in order to maintain the required clearances to combustible materials. Required clearance is 1/4" for the first three (3) feet of supply duct.**

E. FILTERS

1. Filter grilles with one-inch disposable filters are supplied standard in each unit. A filter grille with two-inch disposable filters can also be used and are available as an option.
2. If a filter grille (other than the one accompanying the unit) is used in the installation, the filter should be properly sized to allow a maximum velocity of 400 FPM.

WHEN A FILTER GRILLE IS USED, THE FACTORY-INSTALLED FILTER MUST BE REMOVED.

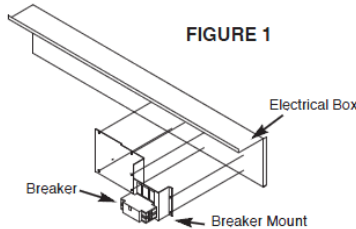
F. ELECTRICAL POWER

The installer **MUST** check available power to make certain it matches the unit nameplate rating and that constant voltage can be maintained to the unit. Unsatisfactory and unsafe performance could otherwise result. The local power company should be contacted about questions concerning power supply.

G. BREAKER/DISCONNECT ASSEMBLY

These units are standard equipped from the factory with a unit disconnect. This is in the form of a circuit breaker (230V models) or disconnect (460V models). If an optional electric heat kit is to be installed, follow the instructions included with the heater assembly.

See Figure 1 for reference.



WARNING: ELECTRICAL EQUIPMENT SHOULD BE INSTALLED BY A QUALIFIED, LICENSED ELECTRICIAN. IMPROPER ELECTRICAL HOOK-UP MAY DAMAGE EQUIPMENT, CAN CREATE A HAZARD AND WILL VOID WARRANTY.

H. ELECTRICAL HOOKUP

The line voltage electrical service can be routed through the right side panel or left side panel. Each area is supplied with two line voltage knock-outs (1/2" – 3/4" and 1" – 1 1/4"). Low voltage wiring can be routed through the right side panel.

NOTE: When routing line voltage through the return air compartment, conduit **MUST** be used (even though this is a dry area) to comply with the NEC code. Refer to the ELECTRICAL DATA tables for minimum wire size and maximum breaker size. All wire sizes listed under the dual-feed circuit column are based on no more than three (3) conductors in the same conduit. If two circuits or more than three (3) conductors are to be routed in the same conduit, the ampacity of the wire size listed **MUST** be derated. Refer to Article 310 of the NEC code for adjustment factors. Be sure to install a ground wire of the proper size to the unit's equipment ground lug.

I. LOW VOLTAGE WIRING

230 volt, 1- and 3-phase units are equipped with dual-primary voltage transformers for 208/240 volt operation. These models are factory wired to the 240 volt tap. For 208 volt operation connect the factory-installed black wires from the 240 volt tap to the 208 volt tap. The acceptable voltage range of the tap is as follows.

Tap	Voltage Range
240 Volt	253 - 216
208 Volt	220 - 187

Seven (7) conductor thermostat wires should be run from the thermostat location to the unit. If the unit is equipped with a powered fresh air option, eight (8) conductor thermostat wires

should be run to the unit. Thermostat wire should be sized as shown on the table below.

Wire Gauge	Maximum Length
20	45'
18	60'
16	100'
14	160'
12	250'

Refer to wiring diagrams for connection details.

STAGING OF ELECTRIC HEAT

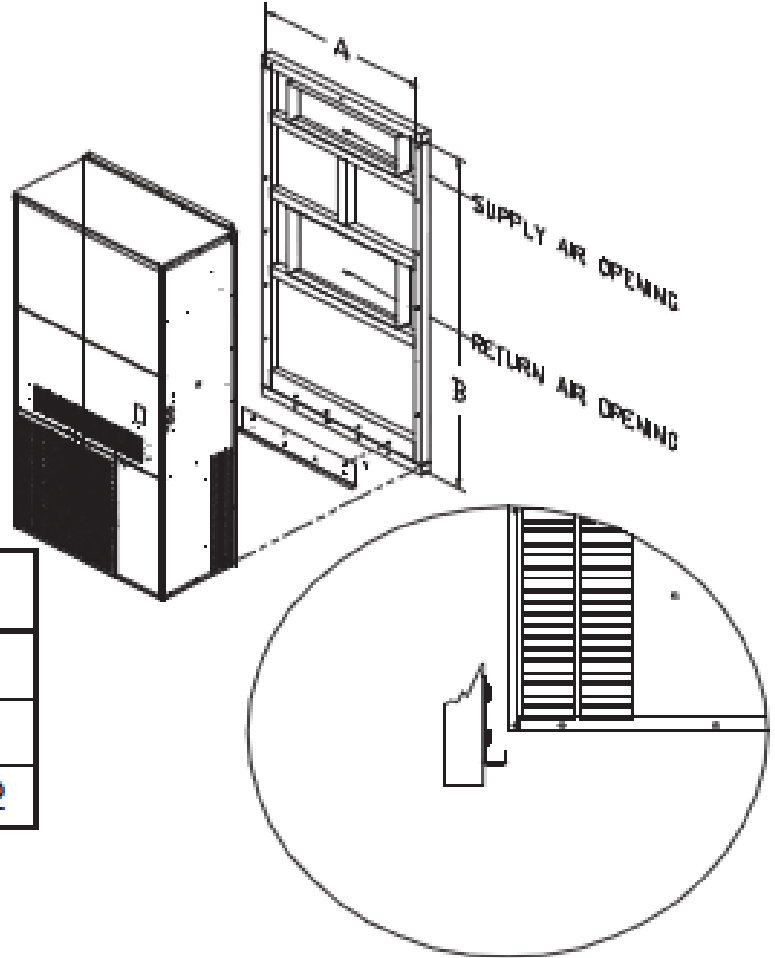
SH series units with electric heat assemblies are wired for two stage heat in normal operation. The first stage is refrigerant heat (Y and G terminals are energized and the O terminal is de-energized). The second stage is auxiliary resistance heat (W is energized). SH series units are equipped with an emergency heat lock-out relay. This will disable the compressor when the E terminal is energized. Do not install a jumper between the W and E terminals; this would keep the compressor contacts from being energized and prevent the compressor from operating.

J. UNIT INSTALLATION

S SERIES UNITS ARE FOR USE IN SINGLE-STORY BUILDINGS ONLY

1. As previously stated, the wall that the unit is to be installed onto **MUST** be strong enough to support the unit under the condition for which it will be used. For example, a unit to be installed on a building that is intended to be transported will require more wall strength than a unit installed at a permanent site. Existing walls may need additional reinforcement. **NEVER RELY ON EXTERIOR SIDING OR PLYWOOD TO SUPPORT THE UNIT.** Figure 2 on page 5 represents a typical installation of a single-story stud wall at a permanent site. Since building materials and techniques vary with regions and intended use, a building contractor and/or local building code official **MUST** be consulted for suitable construction methods.
2. Locate and attach the lower mounting bracket (J Flange) and securely fasten to the desired, reinforced location on the building.
3. Apply a suitable amount of caulk or silicone across the entire length of the side mounting flanges.
4. Remove the flanges on both ends of the pallet and slide the S.A.M. approximately 2" off the rear of pallet. Lift S.A.M. gently into location with fork truck, taking care to insert the back edge of the unit into the slot on the lower mounting bracket (J Flange).
5. While allowing a small portion of weight to rest on the lower bracket (J Flange), push the S.A.M. against the wall and fasten appropriately.
6. Apply a suitable amount of caulk or silicone across the entire length of the side mounting flanges.
7. Lift SH unit gently into position with fork truck, taking care to align the holes on the unit flanges with the holes on the S.A.M. flanges.
8. Fasten the unit to the S.A.M. using the accompanying bolts, nuts, and washers. Remove the pallet and attach top panel to the top of the unit. Apply silicone to the bottom and back of the rain shield and attach to the wall at the top of the unit

FIGURE 2



Unit Model	A	B
18/24	35	71
30/36	39	71
48/60	42	86 ¹ / ₂

MOUNTING FLANGE BOLT PATTERN DIMENSIONS

K. CONDENSATE DRAIN

A 3/4" drain hose is located on the bottom side of the unit. The drain may be extended for condensate removal to comply with local codes (use fitting size or larger).

L. ELECTRIC HEAT INSTALLATION

Electric heat is an option on S Series units and can be field-installed on either single- or three-phase models.

Refer to the individual installation instructions for installing heat kits.

M. OPTIONS

Eubank wallmount air conditioners and heat pumps have the ability to equip a variety of options:

- Electric Heat 5-20kW
- Energy Recovery Ventilator
- Sound Attenuation Module
- Powered Ventilation Damper
- Low Ambient Packages
- Economizer
- Lead Lag Controllers

Option kits must be installed according to the respective installation manual to ensure safe and reliable operation. Installation manuals are included with the option kit or can be found on the Eubank website, www.eubankwallmount.com.

N. BASIC SEQUENCE OF OPERATION

COOLING MODE

Low-voltage thermostat terminal R is connected to Y, Y2, and G, at the unit low-voltage terminal board.

The low-voltage Y terminal to the control will energize the contactor latch coil (causing the contactor to energize the compressor). When Y2 is engaged, the unit switches from the low to high cooling stage.

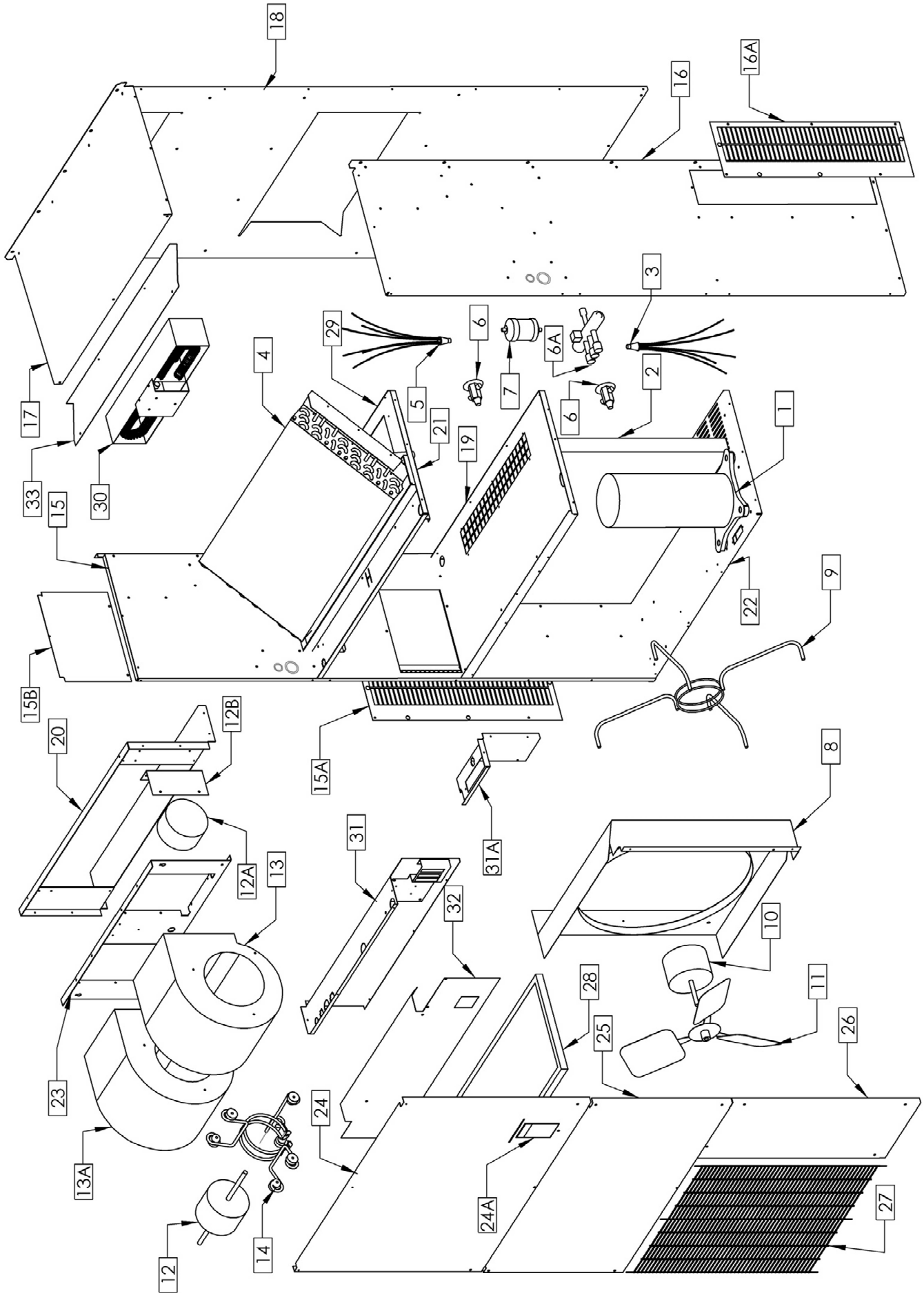
O. HIGH-PRESSURE LOCK OUT

SH Series units are equipped with a high-pressure switch. This switch is wired through a lockout relay to lock out the system if the high side pressure exceeds 650 psi. The high side pressure MUST be below 450 psi before the system can be reset.

SPECIAL NOTES FOR UNIT INSTALLATION

- 1) Minimum 12" clearance at the bottom of the unit for unrestricted air flow.
- 2) Ensure the ambient temperature uniformity around unit
- 3) Intake and discharge of the outdoor air flow must not be restricted or altered.
- 4) All insulation and sealing related to the installation must be completed properly
- 5) External Static Pressure should not exceed the minimum value in the AHRI Standard 390

EXPLODED PARTS DRAWING - 36/48/60



	PART NUMBER	DESCRIPTION	TH36S	TH36T	TH36D	TH48S	TH48T	TH48D	TH60S	TH60T	TH60D
1	3020017	COMP ZPS30K5EPFV130	X								
1	3020018	COMP ZPS30K5ETF5130		X							
1	3020019	COMP ZPS30K5ETFD130			X						
1	3020020	COMP ZPS40K5EPFV130				X					
1	3020021	COMP ZPS40K5ETF5130					X				
1	3020022	COMP ZPS40K5ETFD130						X			
1	3020023	COMP ZPS51K5EPFV130							X		
1	3020024	COMP ZPS51K5ETF5130								X	
1	3020025	COMP ZPS51K5ETFD130									X
2	COND-H436	OUTDOOR COIL	X	X	X						
2	3070001	OUTDOOR COIL				X	X	X	X	X	X
3	550505	DISTRIBUTOR 3 CIRCUIT-OD COIL	X	X	X						
3	550517	DISTRIBUTOR 6 CIRCUIT-OD COIL				X	X	X	X	X	X
4	T36-EVAP	EVAP COIL	X	X	X						
4	3070002	EVAP COIL				X	X	X	X	X	X
5	550517	DISTRIBUTOR 6 CIRCUIT-EVAP	X	X	X						
5	550521	DISTRIBUTOR 9 CIRCUIT-EVAP				X	X	X	X	X	X
6	TXV410-E3	TXV VALVE	X	X	X						
6	TXV410-E5-HP	TXV VALVE				X	X	X	X	X	X
6A	550792	REVERSING VALVE									
7	61508	BI-FLOW FILTER DRIER	X	X	X	X	X	X	X	X	X
8	T36-0008	FAN SHROUD HV36	X	X	X						
8	T60-0008	FAN SHROUD HV48-60				X	X	X	X	X	X
9	421508	MOTOR MOUNT OD FAN	X	X	X						
9	259109	MOTOR MOUNT OD FAN				X	X	X	X	X	X
10	025015/3010014	MOTOR OD 230V 825 RPM	X	X							
10	025018	MOTOR OD 460V 1/4 HP 825 RPM			X						
10	3010016	MOTOR OD 230V HE755 1/2 HP				X	X		X	X	
10	3010017	MOTOR OD 460V HE575 1/2 HP						X			X
11	3020026	OD SWEPT BLADE 22" S*36	X	X	X						
11	3020014	OD SWEPT BLADE 22" S*48-60				X	X	X	X	X	X
12	359104	1/3 HP ECM BLOWER MTR 230V/277V	X	X	X						
12A	3010020	1/3 HP ECM MODULE	X	X	X						
12	359105	1/2 HP ECM BLOWER MTR 230V/277V				X	X	X			
12A	3010021	1/2 HP ECM MODULE				X	X	X			
12	3010027	3/4 HP EON BLOWER MTR 230V/277V							X	X	X
12A	3010028	3/4 HP ECM Module							X	X	X
12B	T36-0131	ECM MODULE BRACKET	X	X	X	X	X	X	X	X	X
13	050001	R.BLOWER WHEEL 98-7T CW	X	X	X						
13A	050000	L.BLOWER WHEEL 98-7T CCW	X	X	X						
13	3020002	R.BLOWER WHEEL 100-9T CW				X	X	X	X	X	X
13A	3020003	L.BLOWER WHEEL 100-9T CCW				X	X	X	X	X	X
14	421506	BLWR MTR BRKT	X	X	X	X	X	X	X	X	X
14A	454280	BLWR MTR BRKT GROMMET TUBE	X	X	X	X	X	X	X	X	X
14B	454282	BLWR MTR BRKT WASHER TUBE	X	X	X	X	X	X	X	X	X
14C	454284	BLWR MTR BRKT MOUNTING SLEEVE	X	X	X	X	X	X	X	X	X
14D	454236	BLWR MTR BRKT WASHER	X	X	X	X	X	X	X	X	X
14E	750058	BLWR MTR BRKT BOLT(1/4-20)	X	X	X	X	X	X	X	X	X
15	T36-0000B	ASSEMBLY LEFT SIDE PANEL HV36	X	X	X						
15A	T36-0135	OD.GRILL INLET LEFT SIDE HV36	X	X	X						
15	T60-0008	ASSEMBLY LEFT SIDE PANEL HV48-60				X	X	X	X	X	X
15A	T60-0091	OD.GRILL INLET LEFT SIDE HV48-60				X	X	X	X	X	X
15B	T36-0126	ERV INTAKE AIR PANEL	X	X	X	X	X	X	X	X	X
16	T36-0001B	ASSEMBLY RIGHT SIDE PANEL HV36	X	X	X						
16A	T36-0134	OD.GRILLINLET RIGHT SIDE HV36	X	X	X						
16	T60-0001B	ASSEMBLY RIGHT SIDE PANEL HV48-60				X	X	X	X	X	X
16A	T60-0081	OD.GRILL INLET RIGHT SIDE HV48-60				X	X	X	X	X	X
17	T36-0007B	TOP HV36	X	X	X						
17	T60-0007B	TOP HV48-60				X	X	X	X	X	X
18	T36-0012	ASSEMBLY REAR PANEL HV-36	X	X	X						
18	T60-0012	ASSEMBLY REAR PANEL HV48-60				X	X	X	X	X	X
19	T36-0003	ASSEMBLY DIVIDER DECK HV-36	X	X	X						
19	T60-0003	ASSEMBLY DIVIDER DECK HV48-60				X	X	X	X	X	X
20	T36-0005	ASSEMBLY BLOWER DECK HV36	X	X	X						
20	T60-0005	ASSEMBLY BLOWER DECK HV48-60				X	X	X	X	X	X
21	2022-0006P	ASSEMBLY DRAIN PAN HV36	X	X	X						
21	2023-0006P	ASSEMBLY DRAIN PAN HV48-60				X	X	X	X	X	X
22	T36-0098	BASE PAN ASSEMBLY HV36	X	X	X						
22	T60-0098	BASE PAN ASSEMBLY HV48-60				X	X	X	X	X	X
23	T36-0018	BLOWER FLANGE HV36	X	X	X						
23	T60-0018	BLOWER FLANGE HV60				X	X	X	X	X	X
24	T36-0010B	UPPER FRONT PANEL HV36	X	X	X						
24	T60-0010B	UPPER FRONT PANEL HV48-60				X	X	X	X	X	X
24A	2022-5062	DISCONNECT ACCESS DOOR HV36-60	X	X	X	X	X	X	X	X	X
24B	70518	DISCONNECT ACCESS DOOR LATCH HV36-60	X	X	X	X	X	X	X	X	X
25	T36-0011B	MIDDLE FRONT PANEL (no fresh air) HV36	X	X	X						
25	T36-0011EB	MIDDLE FRONT PANEL (economizer f/a) HV36	X	X	X						
25	T36-0011FB	MIDDLE FRONT PANEL (barometric f/a) HV36	X	X	X						
25	T60-0011B	MIDDLE FRONT PANEL (no fresh air) HV48-60				X	X	X	X	X	X
25	T60-0011EB	MIDDLE FRONT PNL (economizer f/a) HV48-60				X	X	X	X	X	X
25	T60-0011FB	MIDDLE FRONT PNL (barometric f/a) HV48-60				X	X	X	X	X	X
26	T36-0017B	COMPRESSOR ACCESS DOOR HV36	X	X	X						

	PART NUMBER	DESCRIPTION	TH36S	TH36T	TH36D	TH48S	TH48T	TH48D	TH60S	TH60T	TH60D
26	T60-0017B	COMPRESSOR ACCESS DOOR HV48-60				X	X	X	X	X	X
27	2022-5015	LOWER CONDENSER GRILL HV36	X	X	X						
27	2023-5015	LOWER CONDENSER GRILL HV48-60				X	X	X	X	X	X
28	659930	AIR FILTER DISPOSABLE 16x30x1 HV36	X	X	X						
28	3090005	AIR FILTER PLEATED 16x30x2 HV36	X	X	X						
28	659926	AIR FILTER DISPOSABLE 20x30x1 HV48-60				X	X	X	X	X	X
28	659924	AIR FILTER PLEATED 20x30x2 HV48-60				X	X	X	X	X	X
29	T36-0094	EVAP COIL DECK/FILTER RACK HV36	X	X	X						
29	T60-0094	EVAP COIL DECK/FILTER RACK HV48-60				X	X	X	X	X	X
29A	T36-0132	2 INCH FILTER BRKT HV36	X	X	X						
29A	T60-0132	2 INCH FILTER BRKT HV48-60				X	X	X	X	X	X
29B	T36-0133	1 INCH FILTER BRKT HV36	X	X	X						
29B	T60-0131	1 INCH FILTER BRKT HV48-60				X	X	X	X	X	X
	ETA1-05-HP	FIELD INSTALL HEAT KIT 5KW 1 PHASE 230V	X			X			X		
30	3010002	HEATER 5KW 1PH 230V	X			X			X		
	ETA1-10-HP	FIELD INSTALL HEAT KIT 10KW 1 PHASE 230V	X			X			X		
30	3010003	HEATER 10KW 1PH 230V	X			X			X		
	ETA3-06	FIELD INSTALL HEAT KIT 6KW 3 PHASE 230V					X			X	
30	3010006	HEATER 6KW 3PH 230V					X			X	
	ETA3-09	FIELD INSTALL HEAT KIT 09 KW 3 PHASE 230V					X			X	
30	3010007	HEATER 09 KW 3PH 230V					X			X	
	ETA4-06	FIELD INSTALL HEAT KIT 6KW 3 PHASE 460V						X			X
30	3010010	HEATER 6KW 3P 460V				X		X			X
	ETA4-09	FIELD INSTALL HEAT KIT 09KW 3 PHASE 460V						X			X
30	3010011	HEATER 09KW 3P 460V						X			X
	454332	SWITCH LIMIT 245F ONE SHOT	X	X	X	X	X	X	X	X	X
	454323	SWITCH LIMIT 160-30F 240	X	X	X	X	X	X	X	X	X
31	T36-0009	CONTROL PANEL HV36	X	X	X						
31A	T36-0093	TERMINAL BOARD PANEL HV36	X	X	X						
31	T60-0009	CONTROL PANEL HV48-60				X	X	X	X	X	X
31A	T60-0093	TERMINAL BOARD PANEL HV48-60				X	X	X	X	X	
32	T36-0036	CONTROL PANEL COVER HV36	X	X	X						
32	T60-0036	CONTROL PANEL COVER HV48-60				X	X	X	X	X	X
33	T36-0015	HEAT SHIELD HV36	X	X	X						
33	T60-0015	HEAT SHIELD HV48-60				X	X	X	X	X	X
	453150	COMP CONTACTOR 1 POLE 1P 25 AMP	X				X				
	453770	COMP CONTACTOR 2 POLE 1P 40 AMP							X		
	453772	COMP CONTACTOR 3 POLE 3P 25 AMP		X	X		X	X		X	X
	452842	PHASE MONITOR		X	X		X	X		X	X
	450502	COMP CAPACITOR 7.5/80X370V							X		
	450370	COMP CAPACITOR 7.5/45X370V	X								
	450378/450377	COMP CAPACITOR 10/70X370V -/-7.5/10X370V				X					
	450205	COND. MTR CAPACITOR 7.5X370V		X	X		X	X		X	X
	451000	TERMINAL BLOCK	X	X	X	X	X	X	X	X	X
	452752	TRANSFORMER 208/240V 50VA 24V	X	X		X	X		X	X	
	452756	TRANSFORMER 480V 50VA 24V			X			X			X
	452200	FAN RELAY	X	X		X	X		X	X	
	0821N-0084A	FAN RELAY			X			X			X
	42004	CIRCUIT BREAKER 2 POLE 1P 60 AMP 240V	X			X			X		
	453807	CIRCUIT BREAKER 3 POLE 3P 60 AMP		X			X			X	
	451955	DISCONNECT KIT 460V			X			X			X
	451956	DISCONNECT KNOB 460V			X			X			X
	0415-0028	LOW VOLTAGE TERMINAL BOARD	X	X	X	X	X	X	X	X	X
	454388	LOW PRESSURE SWITCH	X	X	X	X	X	X	X	X	X
	451988	HIGH PRESSURE SWITCH	X	X	X	X	X	X	X	X	X
	452195	LOCKOUT RELAY	X	X	X	X	X	X	X	X	X
	451995	DEFROST BOARD	X	X	X	X	X	X	X	X	X
	0445-0007	DEFROST TERMINATION SENSOR	X	X	X	X	X	X	X	X	X
	451049	JUMPER BAR ASSEMBLY	OPTIONAL	OPTIONAL		OPTIONAL	OPTIONAL		OPTIONAL	OPTIONAL	
	451840	OPTION BOARD	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
	451992	FAN CYCLE SWITCH	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
	1082628	CRANKCASE HEATER	OPTIONAL	OPTIONAL	OPTIONAL						
	1064905	CRANKCASE HEATER				OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
	C-OPT-SH2-410	LOW AMBIENT KIT	OPTIONAL	OPTIONAL	OPTIONAL						
	C-OPT-SH-410	LOW AMBIENT KIT				OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
	3080002	LOW SOUND SUPPLY GRILL	X	X	X						
	3080004	LOW SOUND SUPPLY GRILL				X	X	X	X	X	X
	3080001	LOW SOUND RETURN FILTER GRILL	X	X	X						
	3080003	LOW SOUND RETURN FILTER GRILL				X	X	X	X	X	X
	T60-0140	LARGE SUPPLY GRILLE FRAME				X	X	X	X	X	X
	T36-0140	SMALL SUPPLY GRILLE FRAME	X	X	X						

SV SERIES HEAT PUMP ELECTRICAL DATA

Model No. & Electric Heater Kw [1]	Volt / Phase	No. of Field Power Ckts	SINGLE FIELD CIRCUIT				DUAL FIELD CIRCUIT										
			MCA	MOP [2]	FIELD POWER WIRE SIZE [3]	GROUND WIRE SIZE [3]	MCA		MOP [2]		FIELD POWER WIRE SIZE [3]		GROUND WIRE SIZE [3]				
							CKT1	CKT2	CKT1	CKT2	CKT1	CKT2	CKT1	CKT2			
SV36S00 5 10 15	208-230/1	1	23	30	12	10											
		1	30	40	10	10											
		1	56	60	6	10											
		2					26	52	30	60	10	6	10	10			
SV36T00 6 9 15	208-230/3	1	19	30	14	10											
		1	22	30	12	10											
		1	30	40	10	10											
		1	49	50	8	10											
SV36D00 6 9 15	460/3	1	09	15	14	14											
		1	10	15	14	14											
		1	16	20	14	12											
		1	25	30	10	10											
SV48S00 5 10 15	208-230/1	1	33	50	10	10											
		1	33	50	10	10											
		1	58	60	6	10											
		2					27	52	30	60	10	6	10	10			
SV48T00 6 9 15 18	208-230/3	1	24	30	12	10											
		1	24	30	12	10											
		1	33	40	10	10											
		1	50	60	6	10											
		1 OR 2	60	70	6	08	24	54	30	60	12	6	10	10			
SV48D00 6 9 15	460/3	1	12	15	14	14											
		1	13	15	14	14											
		1	17	20	14	12											
		1	26	30	10	10											
SV60S00 5 10 15	208-230/1	1	40	60	8	10											
		1	40	60	8	10											
		1	58	60	6	10											
		2					34	52	40	60	10	6	10	10			
SV60T00 6 9 15 18	208-230/3	1	27	40	10	10											
		1	27	40	10	10											
		1	33	40	10	10											
		1	50	60	6	10											
		1 OR 2	60	70	6	8	27	54	40	60	10	6	10	10			
SV60D00 6 9 15	460/3	1	12	15	14	14											
		1	12	15	14	14											
		1	17	20	14	12											
		1	26	30	10	10											

LEGEND - CURRENT 11/03/2016

COMP - COMPRESSOR
 RC - RUN CAPACITOR
 HPS - HIGH PRESSURE SWITCH
 FR - FAN RELAY
 OFM - OUTDOOR FAN MOTOR
 LPS - LOW PRESSURE SWITCH

IBM - INDOOR BLOWER MOTOR
 LDR - LOCK-OUT RELAY

OFMR - OUTDOOR FAN MOTOR RELAY

DRAWING NO. 3090027

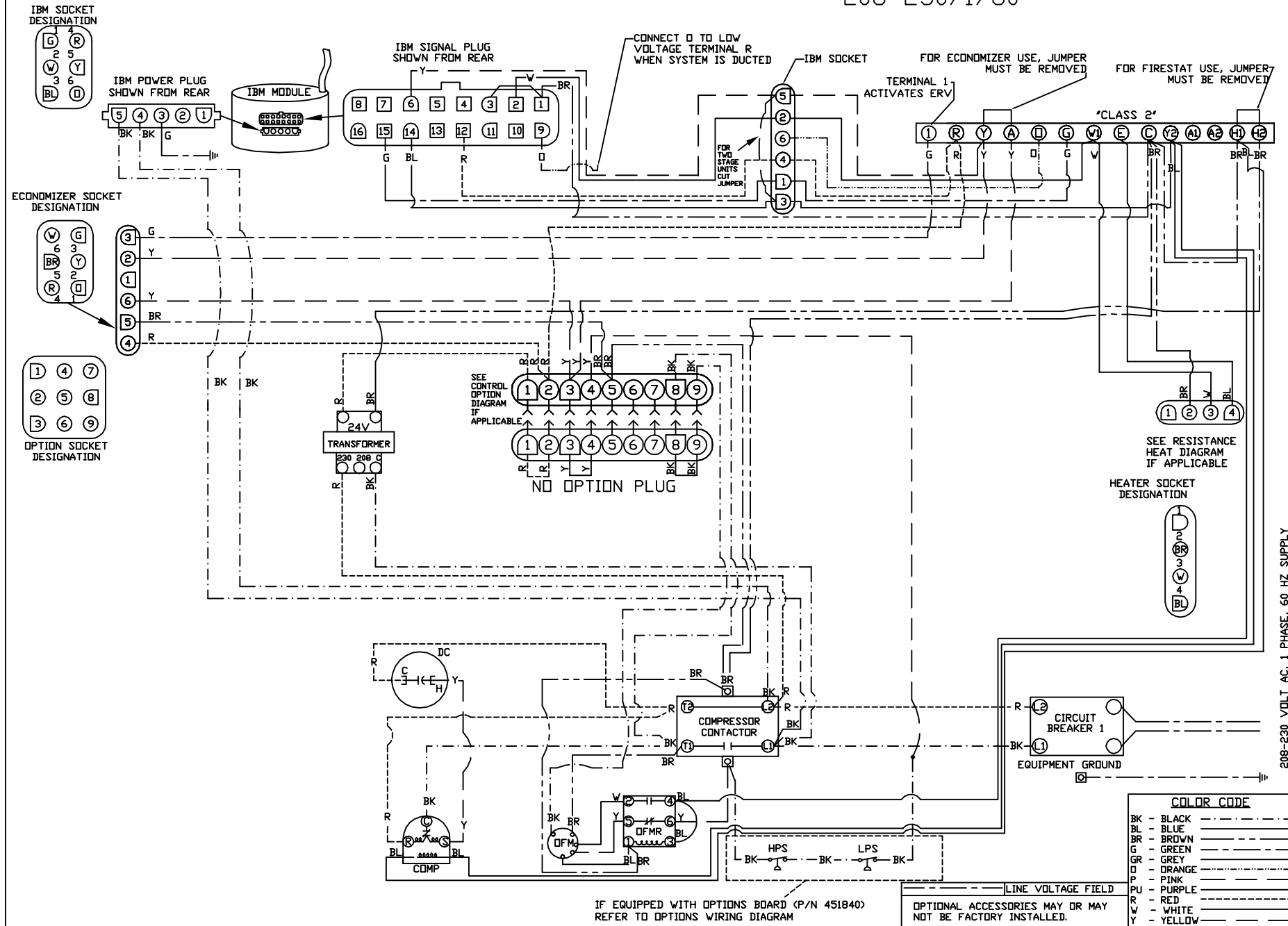
REV A

DRAWING APPLIES TO

BASIC AIR CONDITIONER SYSTEM

SV**S

208-230/1/60

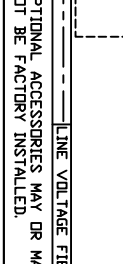
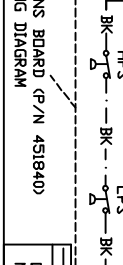
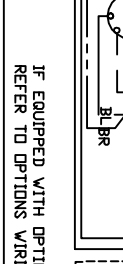
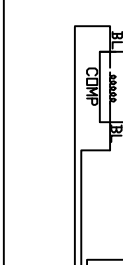
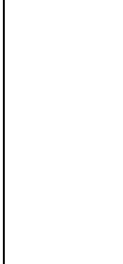
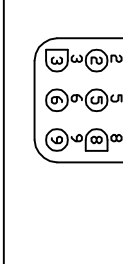
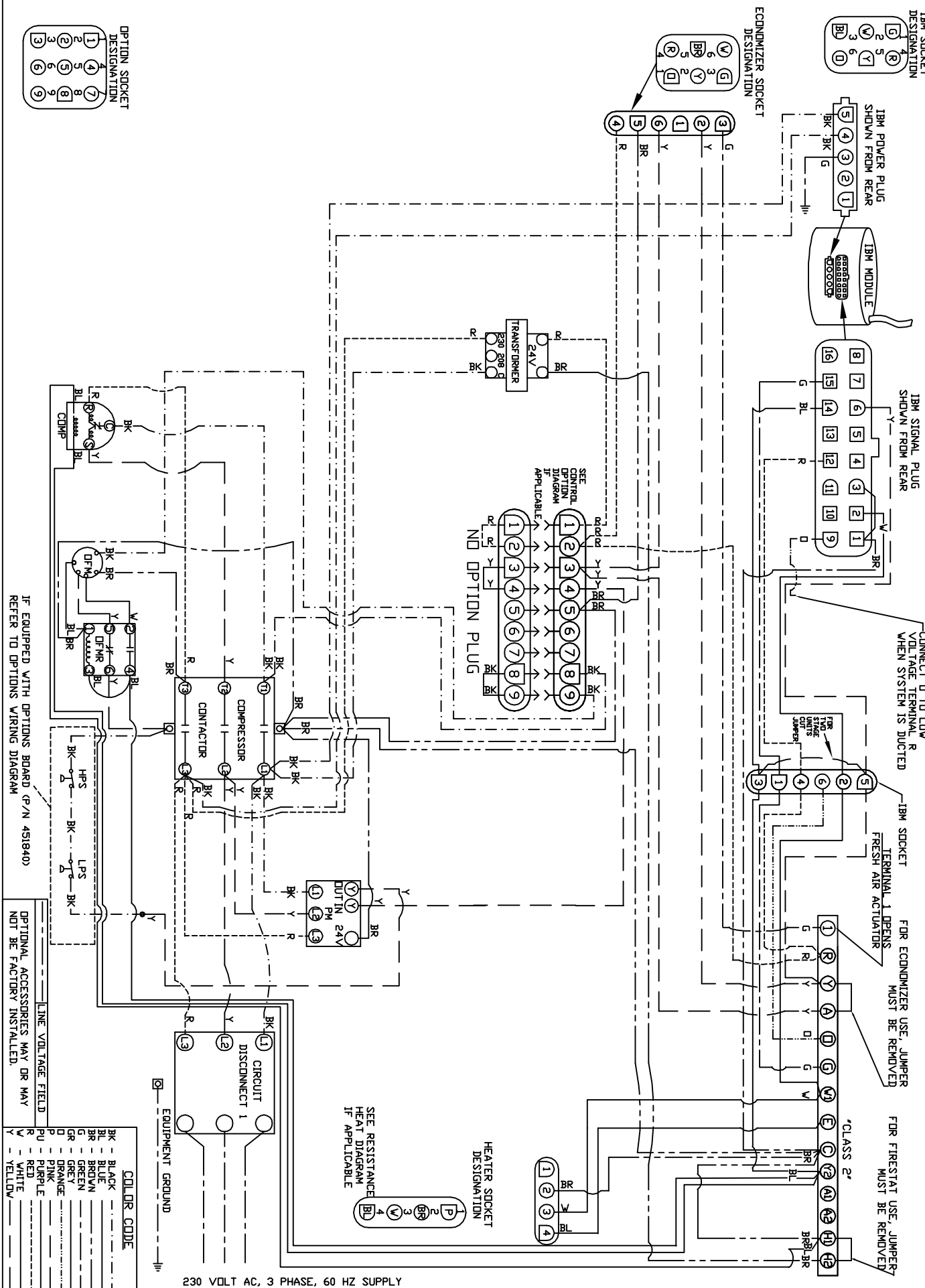


208-230 VOLT AC, 1 PHASE, 60 HZ SUPPLY

COLOR CODE	
BK	- BLACK
BL	- BLUE
BR	- BROWN
G	- GREEN
GR	- GREY
O	- ORANGE
P	- PINK
PU	- PURPLE
R	- RED
W	- WHITE
Y	- YELLOW

- CDMP - COMPRESSOR
- DC - DUAL CAPACITOR
- HPS - HIGH PRESSURE SWITCH
- DFM - OUTDOOR FAN MOTOR
- FR - FAN RELAY
- LPS - LOW PRESSURE SWITCH
- IBM - INDOOR BLOWER MOTOR
- PH - PHASE MONITOR
- RC - RUN CAPACITOR
- DFMR - OUTDOOR FAN MOTOR RELAY

DRAWING NO. 3090025 REV A DRAWING APPLIES TO
 BASIC AIR CONDITIONING SYSTEM
 230/3/60 SV**KT



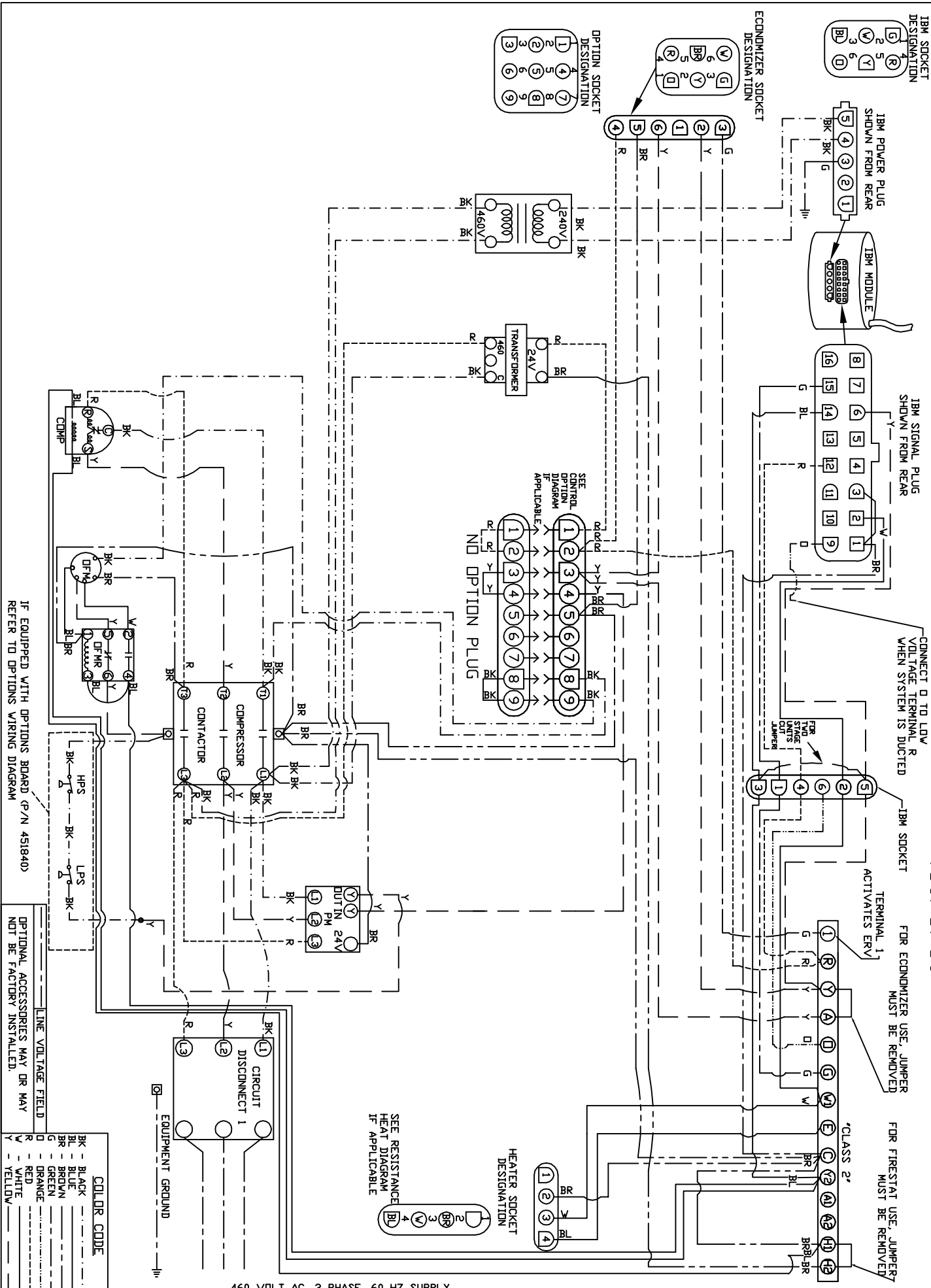
COLOR CODE

BK	BLACK
BL	BLUE
BR	BROWN
CG	GREEN
GR	GREY
OR	ORANGE
PK	PINK
PU	PURPLE
RD	RED
WH	WHITE
YL	YELLOW

230 VOLT AC, 3 PHASE, 60 HZ SUPPLY

- CDMP - COMPRESSOR
- RC - RUN CAPACITOR
- HPS - HIGH PRESSURE SWITCH
- DFM - OUTDOOR FAN MOTOR
- FR - FAN RELAY
- LPS - LOW PRESSURE SWITCH
- IBM - INDOOR BLOWER MOTOR
- PH - PHASE MONITOR
- DFMR - OUTDOOR FAN MOTOR RELAY

DRAWING NO. 3090026 REV A DRAWING APPLIES TO
 BASIC AIR CONDITIONING SYSTEM SV#*D
 460/3/60



460 VOLT AC, 3 PHASE, 60 HZ SUPPLY

IF EQUIPPED WITH OPTIONS BOARD (P/N 451840) REFER TO OPTIONS WIRING DIAGRAM

OPTIONAL ACCESSORIES MAY OR MAY NOT BE FACTORY INSTALLED.

COLOR CODE	
BK	BLACK
BL	BLUE
BR	BROWN
G	GREEN
D	ORANGE
R	RED
Y	WHITE
V	YELLOW

EQUIPMENT GROUND

SEE RESISTANCE HEAT DIAGRAM IF APPLICABLE

HEATER SOCKET DESIGNATION

CONNECT 0 TO LOW VOLTAGE TERMINAL R WHEN SYSTEM IS DUCTED

FOR ECONOMIZER USE, JUMPER MUST BE REMOVED

FOR FIRESTAT USE, JUMPER MUST BE REMOVED

SEE CONTROL OPTION DIAGRAM IF APPLICABLE

NO OPTION PLUG

IBM POWER PLUG SHOWN FROM REAR

IBM SIGNAL PLUG SHOWN FROM REAR

IBM SOCKET

ECONOMIZER SOCKET DESIGNATION

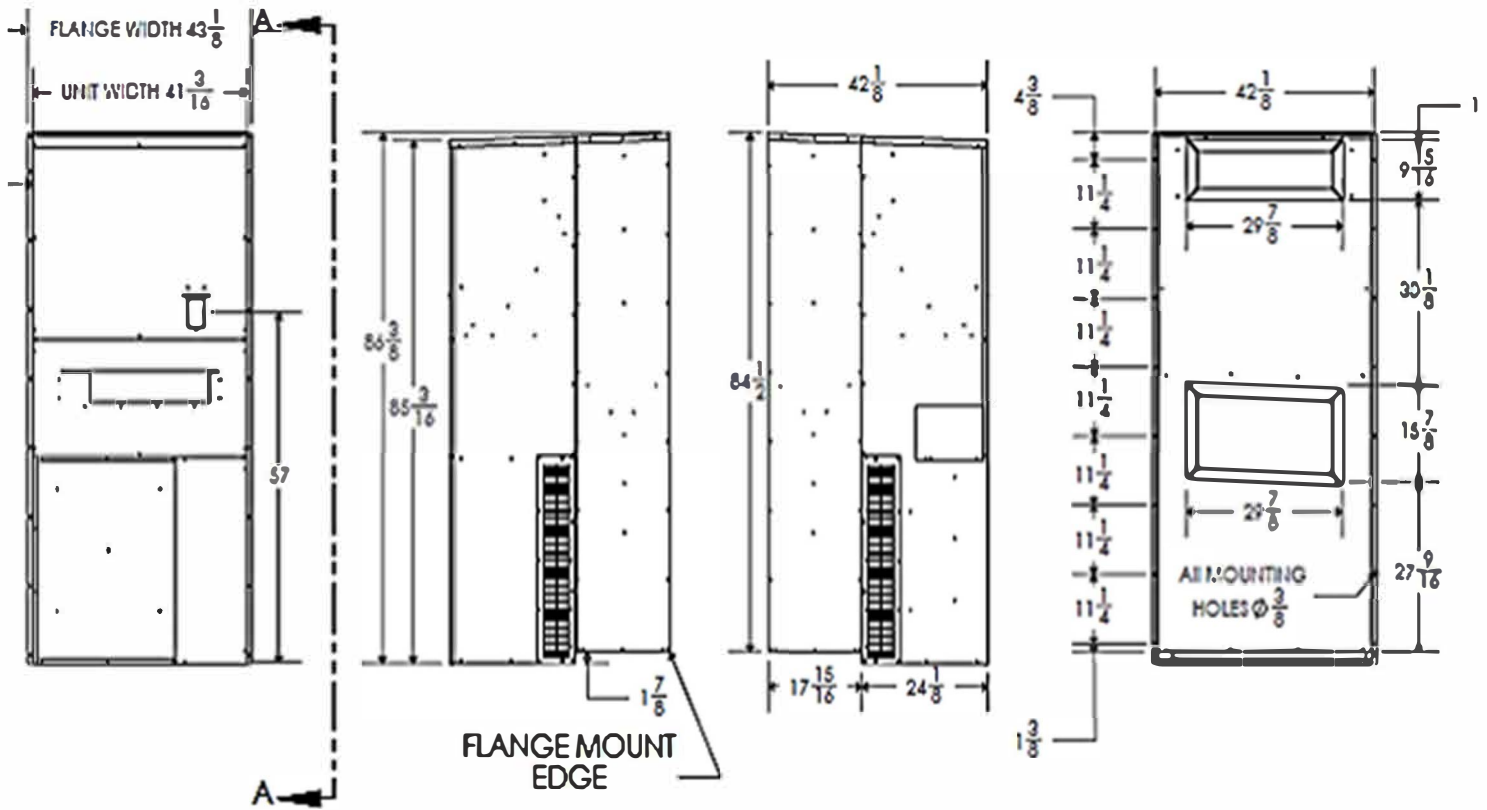
OPTION SOCKET DESIGNATION

TRANSFORMER

TRANSFORMER

HEATER SOCKET DESIGNATION

HEATER SOCKET DESIGNATION



FRONT

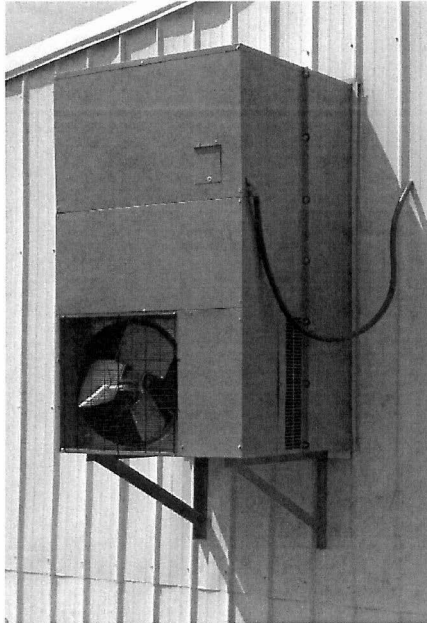
SECTION A-A

SECTION B-B

REAR



156 SEEDLING DR.
CORDELE, GA 31015
TEL (229) 273-3636
FAX (229) 273-8633

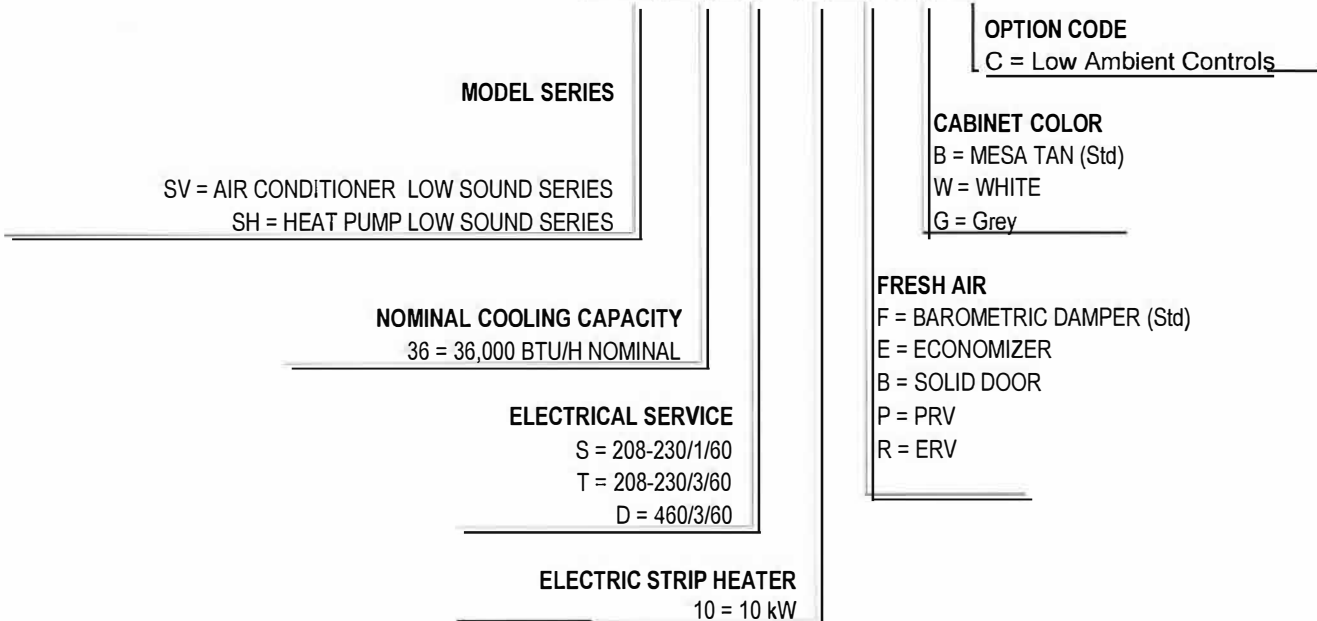


S - Low Sound Series

**SV & SH Series 10 EER
WALLMOUNT WITH SOUND ATTENUATION
AIR CONDITIONERS & HEAT PUMPS**

NOMENCLATURE

SV 36 S 10 - F B 00





Intertek



The information in this manual supersedes and replaces the previous instruction/operation manual 3090015 with regards to SV-Series wallmount products. Illustrations, part numbers and others cover the general appearance of the units at the time of publication and the manufacturer reserves the right to make changes in design and construction at any time without notice.

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