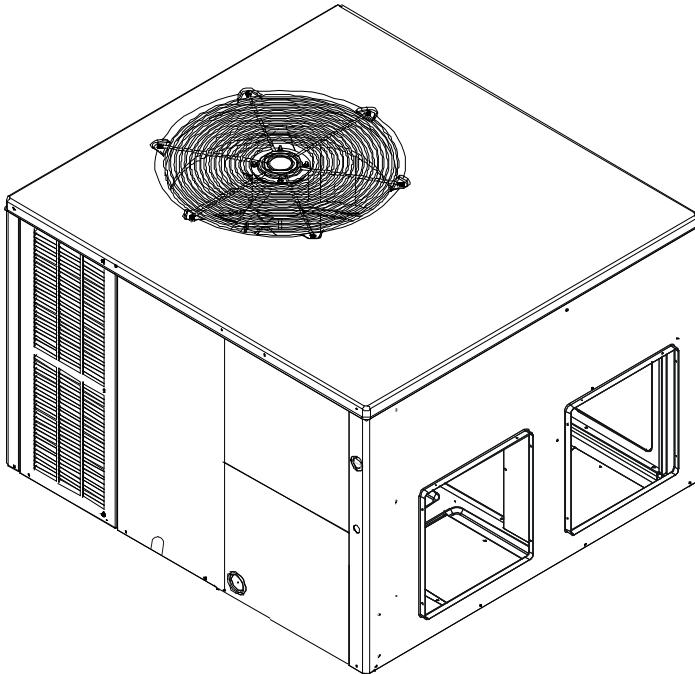




INSTALLATION INSTRUCTIONS FOR SELF-CONTAINED PACKAGE HEAT PUMP UNITS DP5HM 15.2 SEER2 “M” SERIES 2-4 Ton

**WARNING**

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, “SERVICE”) THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPACITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SUPERVISION, SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER SUPERVISION, INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER SUPERVISION OR TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



*Affix this manual and Users Information Manual
adjacent to the unit.*

ATTENTION INSTALLING PERSONNEL:

Prior to installation, thoroughly familiarize yourself with this Installation Manual. Observe all safety warnings. During installation or repair, caution is to be observed.

It is your responsibility to install the product safely and to educate the customer on its safe use.

**WARNING**

DO NOT BYPASS SAFETY DEVICES.

**RECOGNIZE THIS SYMBOL
AS A SAFETY PRECAUTION.**

These installation instructions cover the **outdoor** installation of self contained package air conditioners and heating units. See the Specification Sheets applicable to your model for information regarding accessories.

***NOTE:** Please contact your distributor or our website for the applicable Specification Sheets referred to in this manual.

Our continuing commitment to quality products may mean a change in specifications without notice.



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TO THE INSTALLER

Carefully read all instructions for the installation prior to installing unit. Make sure each step or procedure is understood and any special considerations are taken into account before starting installation. Assemble all tools, hardware and supplies needed to complete the installation. Some items may need to be purchased locally. After deciding where to install unit, closely look the location over - both the inside and outside of home. Note any potential obstacles or problems that might be encountered as noted in this manual. Choose a more suitable location if necessary.

IMPORTANT NOTE: IF A CRANKCASE HEATER IS USED, THE UNIT SHOULD BE ENERGIZED 24 HOURS PRIOR TO COMPRESSOR START UP TO ENSURE CRANKCASE HEATER HAS SUFFICIENTLY WARMED THE COMPRESSOR. COMPRESSOR DAMAGE MAY OCCUR IF THIS STEP IS NOT FOLLOWED.

Before using this manual, check the serial plate for proper model identification.

The installation and servicing of this equipment must be performed by qualified, experienced technicians only.

SHIPPING INSPECTION

CHECKING PRODUCT RECEIVED

Upon receiving the unit, inspect it for damage from shipment. Claims for damage, either shipping or concealed, should be filed immediately with the shipping company. Check the unit model number, specifications, electrical characteristics and accessories to determine if they are correct. In the event an incorrect unit is shipped, it must be returned to the supplier and must NOT be installed. The manufacturer assumes no responsibility for installation of incorrectly shipped units.

MESSAGE TO THE HOMEOWNER

These instructions are addressed primarily to the installer; however, useful maintenance information is included and should be kept, after installation, for future reference.

REPLACEMENT PARTS

ORDERING PARTS

When reporting shortages or damages, or ordering repair parts, give the complete unit model and serial numbers as stamped on the unit's nameplate.

Replacement parts for this appliance are available through your contractor or local distributor. For the location of your nearest distributor, consult the white business pages, the yellow page section of the local telephone book or contact:

HOMEOWNER SUPPORT
DAIKIN COMFORT TECHNOLOGIES
MANUFACTURING, L.P.
19001 KERMIER ROAD WALLER, TX 77484
885-770-5678

IMPORTANT SAFETY INSTRUCTIONS

RECOGNIZE SAFETY SYMBOLS, WORDS, AND LABELS

The following symbols and labels are used throughout this manual to indicate immediate or potential safety hazards. It is the owner's and installer's responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of personal injury, property damage, and/or product damage.



WARNING

DO NOT CONNECT TO OR USE ANY DEVICE THAT IS NOT DESIGN CERTIFIED BY THE MANUFACTURER FOR USE WITH THIS UNIT. SERIOUS PROPERTY DAMAGE, PERSONAL INJURY, REDUCED UNIT PERFORMANCE AND/OR HAZARDOUS CONDITIONS MAY RESULT FROM THE USE OF SUCH NON-DEVICES.



WARNING

HIGH VOLTAGE
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



WARNING

CONNECTING UNIT DUCTWORK TO UNAUTHORIZED HEAT PRODUCING DEVICES SUCH AS A FIREPLACE INSERT, STOVE, ETC. MAY RESULT IN PROPERTY DAMAGE, FIRE, CARBON MONOXIDE POISONING, EXPLOSION, PERSONAL INJURY OR DEATH.



WARNING

TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, DO NOT USE THIS UNIT IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE UNIT AND TO REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL HAVING BEEN UNDER WATER.



WARNING

THIS UNIT MUST NOT BE USED AS A "CONSTRUCTION HEATER" DURING THE FINISHING PHASES OF CONSTRUCTION ON A NEW STRUCTURE. THIS TYPE OF USE MAY RESULT IN PREMATURE FAILURE OF THE UNIT DUE TO EXTREMELY LOW RETURN AIR TEMPERATURES AND EXPOSURE TO CORROSIVE OR VERY DIRTY ATMOSPHERES.



WARNING

TO PREVENT THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, DO NOT STORE COMBUSTIBLE MATERIALS OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPORS IN THE VICINITY OF THIS APPLIANCE.

CODES AND REGULATIONS

GENERAL

The DP5HM SEER2 M-Series heat pumps are designed for OUTDOOR USE ONLY. The DP5HM SEER2 M-Series is available in cooling capacities of 2, 2.5 3, 3.5 and 4 nominal tons of cooling. Optional field installed heat kits are available in 5, 8, 10, 15 and 20 kW. The units can be easily installed in manufactured or modular homes with existing high-static duct work. The units can also be easily converted to accommodate a plenum for normal or low-static applications. The DP5HM SEER2 M-Series are self contained packaged units so the only connections needed for installation are the supply and return ducts, the line and low voltage wiring and drain connection. Rated performance is achieved after 20 hours of operation. Rated performance is delivered at the specified airflow. See product specification sheet for packaged models.

Specification sheets can be found at www.daikincomfort.com for Daikin brand products. Within the website, please select the residential or commercial products menu and then select the submenu for the type of product to be installed, such as air conditioners or heat pumps, to access a list of product pages that each contain links to that model's specification sheet. The units are UL listed and AHRI certified.

The information on the rating plate is in compliance with the FTC & DOE rating for single phase units.

EPA REGULATIONS

IMPORTANT: THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) HAS ISSUED VARIOUS REGULATIONS REGARDING THE INTRODUCTION AND DISPOSAL OF REFRIGERANTS IN THIS UNIT. FAILURE TO FOLLOW THESE REGULATIONS MAY HARM THE ENVIRONMENT AND CAN LEAD TO THE IMPOSITION OF SUBSTANTIAL FINES. BECAUSE REGULATIONS MAY VARY DUE TO PASSAGE OF NEW LAWS, WE SUGGEST A CERTIFIED TECHNICIAN PERFORM ANY WORK DONE ON THIS UNIT. SHOULD YOU HAVE ANY QUESTIONS PLEASE CONTACT THE LOCAL OFFICE OF THE EPA.

NATIONAL CODES

This product is designed and manufactured to permit installation in accordance with National Codes. It is the installer's responsibility to install the product in accordance with National Codes and/or prevailing local codes and regulations.

MAJOR COMPONENTS

The unit includes a hermetically sealed refrigerating system (consisting of a compressor, condenser coil, evaporator coil with flowrator), an indoor blower, a condenser fan and all necessary internal electrical wiring. The heat pump also includes a reversing valve, solenoid, defrost thermostat and control and loss of charge protection. The system is factory-evacuated, charged and performance tested. Refrigerant amount and type are indicated on rating plate.

INSTALLATION

PRE-INSTALLATION CHECKS

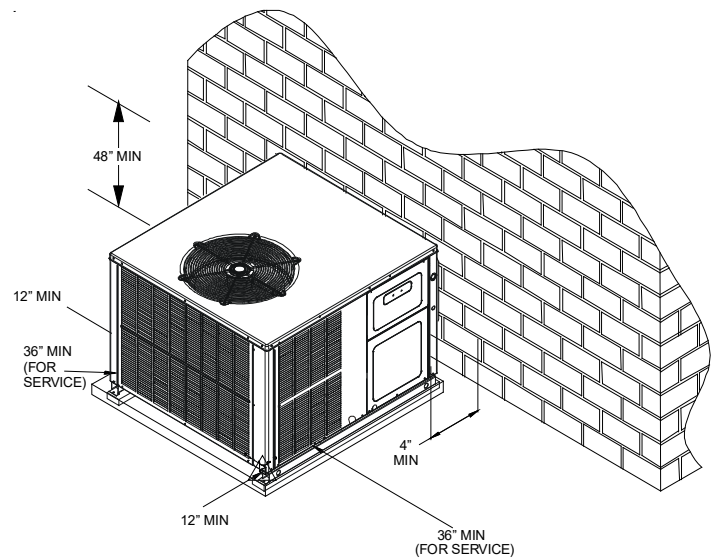
Before attempting any installation, the following points should be considered:

- Structural strength of supporting members
- Clearances and provision for servicing
- Power supply and wiring
- Air duct connections
- Drain facilities and connections
- Location may be on any four sides of a home, manufactured or modular, to minimize noise

CLEARANCES AND ACCESSIBILITY

The unit is designed to be located outside the building with unobstructed condenser air inlet and discharge. Additionally, the unit must be situated to permit access for service and installation. Condenser air enters from three sides. Air discharges upward from the top of the unit. Refrigerant gauge connections are made on the right side of the unit as you face the compressor compartment. Electrical connections can be made either on the right, bottom or duct panel side of the unit. The best and most common application is for the unit to be located 12" from wall (4" minimum) with the connection side facing the wall. This "close to the wall" application minimizes exposed wiring.

Close to the wall application assures free, unobstructed air to the other two sides. In more confined application spaces, such as corners provide a minimum 12" clearance on all air inlet sides. Allow 36" minimum for service access to the compressor compartment and controls. The top of the unit should be completely unobstructed. If units are to be located under an overhang, there should be a minimum of 48" clearance and provisions made to deflect the warm discharge air out from the overhang. See Figure 1 - Ground Level Installation below.



**GROUND LEVEL INSTALLATION
FIGURE 1**

UNIT LOCATION

Consider the effect of outdoor fan noise on conditioned space and any adjacent occupied space. It is recommended that the unit be placed so that condenser air discharge does not blow toward windows less than 25 feet away.

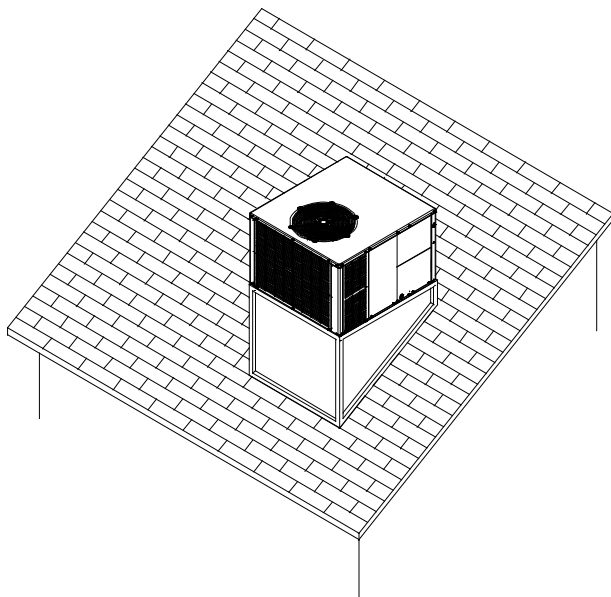
The unit should be set on a solid, level foundation – preferably a concrete slab at least 4 inches thick. The slab should be above ground level and surrounded by a graveled area for good drainage. Any slab used as a unit's foundation should not adjoin the building as it is possible that sound and vibration may be transmitted to the structure. For rooftop installation, steel or treated wood beams should be used as unit support for load distribution.

Heat pumps require special location consideration in areas of heavy snow accumulation and/or areas with prolonged continuous subfreezing temperatures. Heat pump unit bases have holes under the outdoor coil to permit drainage of defrost water accumulation. The unit must be situated to permit free unobstructed drainage of the defrost water and ice. A minimum 2" clearance under the outdoor coil is required in the milder climates.

Heat Pump Elevation Chart	
Design Temperature	Suggested Minimum Elevation
+15° and above	2 1/2"
-5° to +14°	8"
Below -5°	12"

ROOF TOP INSTALLATION (FIGURE 2)

1. Before locating the unit on the roof, make sure that the strength of the roof and beams is adequate to support the weight involved. (See specification sheet for weight of units). This is very important and the installer's responsibility.
2. Make a proper consideration for weather-tight integrity of the roof and proper drainage of condensate.
3. To ensure proper condensate drainage, **unit must be installed in a level position.**
4. Consideration should also be given to shade, appearance, and noise.



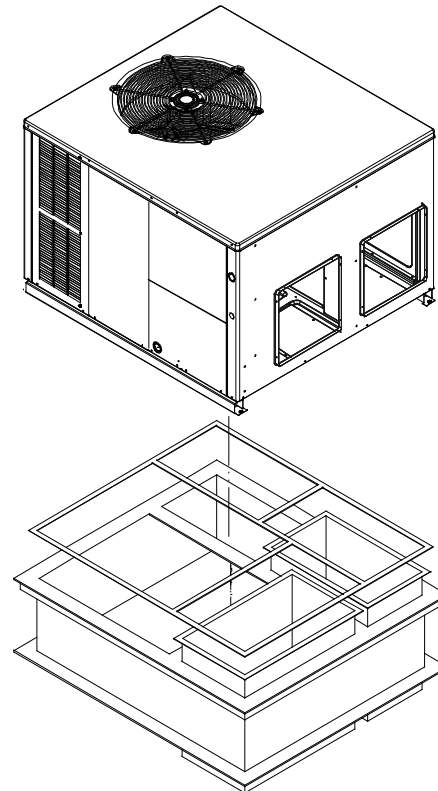
ROOFTOP INSTALLATION
FIGURE 2

ROOF CURB INSTALLATIONS

NOTE: SUFFICIENT STRUCTURAL SUPPORT MUST BE DETERMINED PRIOR TO LOCATING AND MOUNTING THE CURB AND PACKAGE UNIT.

Curb insulation, cant strips, flashing and general roofing material are furnished by the contractor.

Curbing must be installed in compliance with the National Roofing Contractors Association Manual. Construct duct work using current industry guidelines. The duct work must be placed into the roof curb before mounting the package unit. See Figure 3 - Roof Curb Installation.



ROOF CURB INSTALLATION
FIGURE 3

RIGGING DETAILS



WARNING

TO PREVENT PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING WHEN CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.



WARNING

TO AVOID POSSIBLE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, ENSURE THE ROOF HAS SUFFICIENT STRUCTURAL STRENGTH TO CARRY THE WEIGHT OF THE UNIT(S), ROOF CURB, SNOW LOADS, AND WATER LOAD AS REQUIRED BY LOCAL CODES. CONSULT A STRUCTURAL ENGINEER TO DETERMINE THE WIGHT CAPABILITIES OF THE ROOF.



WARNING

IF UNITS ARE LIFTED TWO AT A TIME, THE FORK HOLES ON THE CONDENSER END OF THE UNIT MUST NOT BE USED. MINIMUM FORK LENGTH IS 42" TO PREVENT DAMAGE TO THE UNIT. HOWEVER, 48" IS RECOMMENDED.

NOTE: PROVISIONS FOR FORKS HAVE BEEN INCLUDED IN THE UNIT BASE FRAME. NO OTHER FORK LOCATIONS ARE APPROVED.



CAUTION

TO AVOID POSSIBLE PERSONAL INJURY, A SAFE, FLAT SURFACE FOR SERVICE PERSONNEL SHOULD BE PROVIDED.



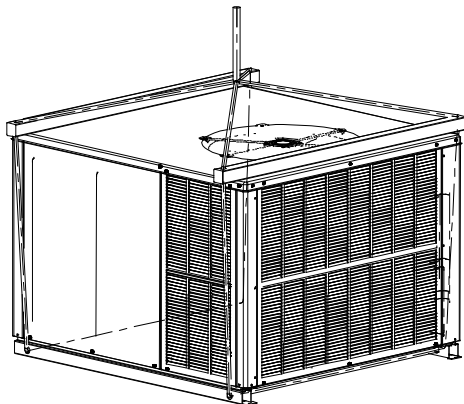
WARNING

TO PREVENT POSSIBLE EQUIPMENT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH. THE FOLLOWING BULLET POINTS MUST BE OBSERVED WHEN INSTALLING THE UNIT.

Unit must be lifted by the four lifting holes located at the base frame corners. See Figure 4 - Rigging.

- Lifting cables should be attached to the unit with shackles
- The distance between the crane hook and the top of the unit must not be less than 60".
- Two spreader bars must span over the unit to prevent damage to the cabinet by the lift cables. Spreader bars must be of sufficient length so that cables do not come into contact with the unit during transport.
- Remove wood struts mounted beneath unit base frame before setting unit on roof curb. These struts are intended to protect unit base frame from forklift damage. Removal is accomplished by extracting the sheet metal retainers and pulling the struts through the base of the unit. Refer to rigging label on the unit.

Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.



RIGGING
FIGURE 4

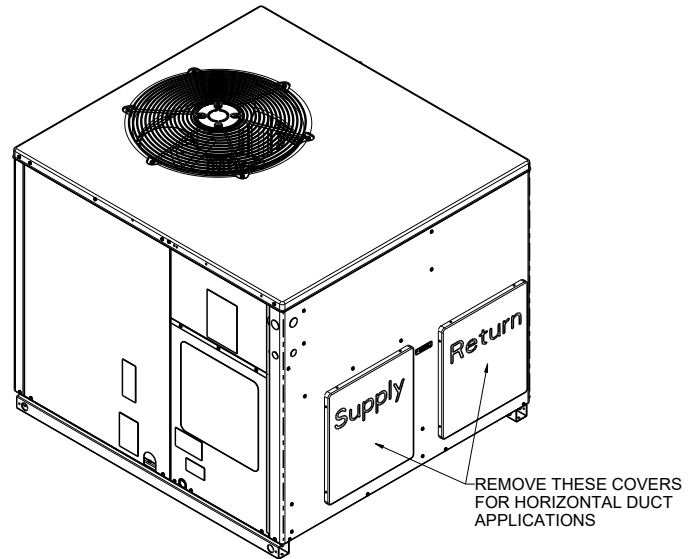
CIRCULATING AIR AND FILTERS

AIRFLOW CONVERSION

Units can easily be converted from horizontal to down discharge air flow delivery. In down discharge or high static installations, the installer should measure the total external static and review the blower performance charts before performing the installation. In some installations it will be necessary to change the blower speed to provide proper air flow.

Horizontal Air Flow

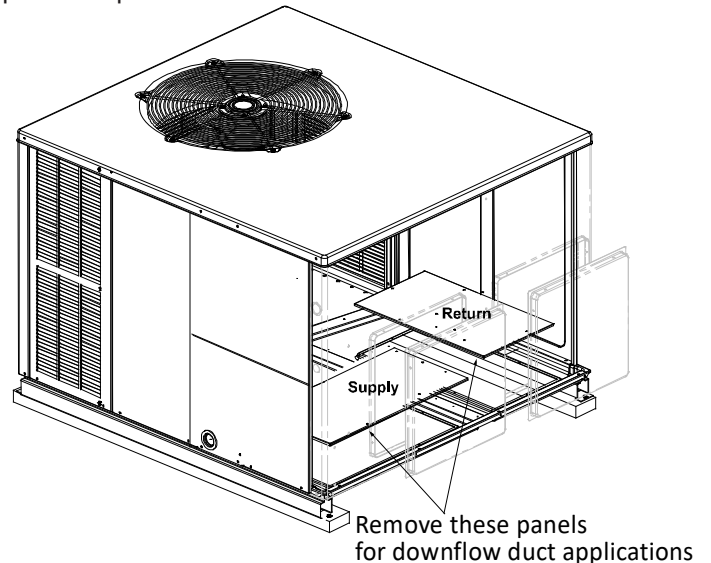
Single phase models are shipped without horizontal duct covers. If needed, these kits may be ordered through Daikin's Service Parts department.



HORIZONTAL FLOW DUCT COVER INSTALLATION
FIGURE 5A

Down Discharge Applications

Cut insulation around bottom openings and remove panels from the bottom of the unit, saving the screws holding the panels in place.



DOWNFLOW DUCT COVER INSTALLATION
FIGURE 5B

DUCTING

Ducting work should be fabricated by the installing contractor in accordance with local codes. Industry manuals may be used as a guide when sizing and designing the duct system-such as NESCA (National Environmental Systems Contractors Association, 1501 Wilson., Arlington, Virginia 22209).

The unit should be placed as close as possible to the space to be air-conditioned allowing clearance dimensions as indicated. Ducts should run as directly as possible

to supply and return outlets. Use of non-flammable weatherproof flexible connectors on both supply and return connections at the unit to reduce noise transmission is recommended.

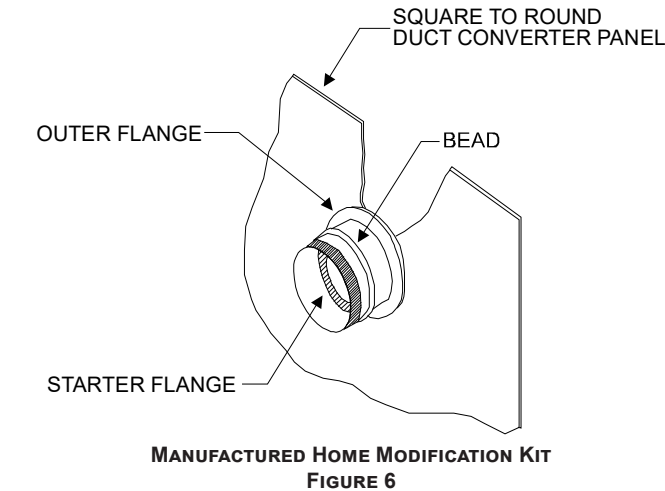
It is preferable to install the unit on the roof of the structure if the registers or diffusers are located in the wall or ceiling. A slab installation is recommended when the registers are low on the wall or in the floor.

CONNECTING THE RETURN AND SUPPLY FLEXIBLE DUCT IN MANUFACTURED OR MODULAR HOUSING APPLICATION

The return and supply fittings are to be attached at the unit to a suitable square to round duct converter. Your distributor has a factory designed square to round converter transition. The model numbers of these kits are as follows in the table below. (See Specification Sheets for Dimension details).

Accessory Description	Item Number	
	Medium Chassis	Large Chassis
Downflow Square to Round	SQRPG101/102	SQRPG103
Horizontal Square to Round	SQRPGH102	SQRPGH103

The SQRPG101, SQRPG102, and SQRPG103 fit up to the Return and Supply Downflow vents having dimensions: Return (22 ¾" x 12 ¼") and Supply (22 ¼" x 14 ¾"). The SQRPGH101, SQRPGH102, and SQRPGH103 fit up to the Horizontal Return and Supply downflow vents having dimensions: Medium Chassis (16 ½" x 16 ½") and Large Chassis (18 ½" x 18 ½"). The Medium Chassis kits transition to a 16" Diameter and the Large Chassis kits transition to an 18" Diameter (equivalent diameter, opening is oval) on the return. The collars are to be slipped into the openings, and the flanges bent around the converter. The square to round converter is attached to the flanges of the square duct openings. The flexible duct is then clamped on to the collars. Once the duct is affixed to the unit, seal the collars and flanges with a proper waterproof sealant. See Figure 6 - Manufactured Home Modification Kit.



It is strongly encouraged to use appropriately sized ducts based upon the CFM for your application (unit's CFM). If duct sizing through industry manuals or air duct calculators requires larger ducts than converter openings, run larger duct size up to unit converter openings and reduce with a reducer duct fitting or transition right at the unit.

PLENUM APPLICATION

A suitable plenum or square duct must be constructed. The duct cross-sectional area should be determined by industry duct sizing manuals or air duct calculators.

On ductwork exposed to outside air conditions of temperature and humidity, use an insulation with a good K factor, and a vapor barrier. Industry practices should be followed. Balancing dampers are recommended for each branch duct in the supply system. Ductwork should be properly supported from the unit.

NOTE: PROPER SEALING OF ALL DUCTWORK AND AIR HANDLING COMPARTMENTS IS EXTREMELY IMPORTANT TO OVERALL UNIT EFFICIENCY.

FILTERS

CAUTION

TO PREVENT PROPERTY DAMAGE DUE TO FIRE AND LOSS EQUIPMENT EFFICIENCY OR EQUIPMENT DAMAGE DUE TO DUST AND LINT BUILD-UP ON INTERNAL PARTS, NEVER OPERATE THE UNIT WITHOUT AN AIR FILTER INSTALLED IN THE RETURN AIR SYSTEM.

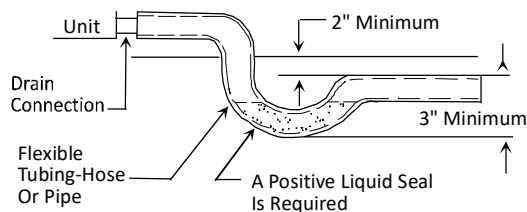
Filters are not provided with unit and must be supplied and externally installed in the return duct system by the installer. A field-installed filter grille is recommended for easy and convenient access to the filters for periodic inspection and cleaning. When installing filters, ensure the air flow arrows on the filter are pointing toward the circulator blower. For unit filter size information, see Figure 7 - Recommended Filter Size.

UNIT	2 Ton	2 1/2 Ton	3 Ton	3 1/2 /4 Ton
Min. Filter Size	(1)20 x 20 x 1	(1)20 x 25 x1	(1)25 x 25 x1	(2)20 x 20 x 1

RECOMMENDED FILTER SIZE
FIGURE 7

CONDENSATE DRAIN PIPING

The condensate drain connection of the evaporator is a half coupling of ¾" N.P.T. A trap must be provided to have proper condensate drainage. Install condensate drain trap as shown in Figure 8 - Condensate Drain Tap Plumbing. Ensure drain connection is ¾" or larger. Do not operate unit without trap and ensure unit is level or slightly inclined toward drain.



**CONDENSATE DRAIN TRAP PLUMBING
FIGURE 8**

ELECTRICAL WIRING



CAUTION

TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY DUE TO FIRE, USE ONLY COPPER CONDUCTORS.

NOTE: ALL WIRING SHOULD BE MADE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

Consult your local Power Company to determine the availability of sufficient power to operate the unit. Check the voltage, frequency, and phase at the power supply to ensure it corresponds to the unit's **RATED VOLTAGE REQUIREMENT**.

In accordance with the N.E.C. or local codes, install a branch circuit fused disconnect near the unit. Determine wire sizes and overcurrent protection from the unit nameplate ampacity and in accordance with N.E.C., and local building codes. The wiring should **never** be sized smaller than is recommended by either of these two sources.

Fuses smaller than that recommended on the unit nameplate could result in unnecessary fuse failure or service calls. The use of protective devices of larger size than indicated could result in extensive damage to the equipment. The manufacturer bears no responsibility for damage caused to equipment as result of the use of larger than is recommended size protective devices.

All units have undergone a run test prior to packaging for shipment. This equipment has been started at minimum rated voltage and checked for satisfactory operation. Do not attempt to operate this unit if the voltage is not within the minimum and maximum voltages shown on nameplate.

The units are designed for operation at the voltage, frequency, and phase as shown on the rating plate. All internal wiring in the unit is complete. It is necessary to bring in the power supply to the contactor as shown on the unit wiring diagram which is supplied with each unit. The low voltage wiring must be connected between the unit control panel and the room thermostat.

All exterior wiring must be within approved weatherproof conduit. The unit must be **permanently grounded** in accordance with local codes, or in absence of local codes,

with N.E.C. ANSI/ NFPA NO. 70-1984 or latest edition by using ground lug in the control box.

DO NOT EXCEED THE MAXIMUM OVERCURRENT DEVICE SIZE SHOWN ON UNIT DATA PLATE.

Fuses or HACR type circuit breakers may be used where codes permit.

IMPORTANT NOTE: UNITS MAY BE EQUIPPED WITH A SINGLE-POLE CONTACTOR. EXERCISE CAUTION WHEN SERVICING AS ONLY ONE LEG OF THE POWER SUPPLY IS BROKEN WITH THE CONTRACTOR.



WARNING

HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



CAUTION

TO AVOID THE RISK OF ELECTRICAL SHOCK, WIRING TO THE UNIT MUST BE POLARIZED AND GROUNDED.

Rating Voltage	Minimum Supply Voltage	Maximum Supply Voltage
208/230V	197	253

HIGH VOLTAGE WIRING

- Single Phase. Connect two leads to terminals L1 & L2 in the electrical control section, using wire sizes specified in wiring table.

BRANCH CIRCUIT AMPACITY	15	20	25	30	35	40	45	50
SUPPLY WIRE LENGTH - FEET								
200	6	4	4	4	3	3	2	2
150	8	6	6	4	4	4	3	3
100	10	8	8	6	6	6	4	4
50	14	12	10	10	8	8	6	6

NOTE: THE UNIT TRANSFORMER IS FACTORY CONNECTED FOR 230V OPERATION. IF THE UNIT IS TO OPERATE ON 208V, RECONNECT THE TRANSFORMER PRIMARY LEAD AS SHOWN ON THE UNIT WIRING DIAGRAM.

LOW VOLTAGE WIRING

- Heat Pumps. Connect 24V wires from the thermostat to the corresponding wires in the control box using No. 18 AWG as follows:

NOTE: DP5HM UNITS HAVE TWO-STAGE HEATING/COOLING AND REQUIRE THERMOSTATS WITH TWO-STAGE HEAT/COOL AND OPTIONAL AUXILIARY HEAT CONTROL.

DP5HM[24-48]	
Terminal	Thermostat
Red	R (24V)
Green	G (Fan)
Orange	O (Rev. Valve)
White	W1 (Heat, Aux Heat Stage 1)*
Brown	W2 (Heat, Aux Heat Stage 2)*
Purple	Y1 (Compressor Stage 1)
Yellow	Y2 (Compressor Stage 2)
Blue	C (24V Common)

*Optional field installed heat connections

INTERNAL WIRING

A diagram detailing the internal wiring of this unit is located on the electrical box cover. If any of the original wire supplied with the appliance must be replaced, the wire gauge and insulation must be the same as the original wiring.

Transformer is wired for 230 volts on the 208/230 models. See wiring diagram for 208 volt wiring.

1. For branch circuit wiring (main power supply to unit disconnect), the minimum wire size for the length of run can be determined from N.E.C., local building codes, and using the circuit ampacity found on the unit rating plate. From the unit disconnect to the unit, the smallest wire size allowable may be used for the ampacity as the **disconnect MUST be in accordance with federal, state, and local jurisdiction requirements.**
2. Wire size based on 60°C rated wire insulation and 30°C Ambient Temperature (86°F).
3. For more than three conductors in a raceway or cable, see the N.E.C. for derating the ampacity of each conductor.

START-UP PROCEDURES AND CHECKLISTS



 WARNING	
HIGH VOLTAGE DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.	

AIR CONDITIONER START-UP PROCEDURE

With power turned off at all disconnects:

1. Turn thermostat system switch to "COOL" and fan switch to "AUTO". Next, turn the temperature setting as high as it will go.

2. Inspect all registers and set them to the normal open position.
3. Turn on the electrical supply at the disconnect.
4. Turn the fan switch to the "ON" position. The blower should begin ramping up immediately.
5. Turn the fan switch to "AUTO" position. The blower should begin ramping down after an approximate 60-second delay.
6. Slowly lower the cooling temperature until the unit starts. The compressor, blower and fan should now be operating. Allow the unit to run 10 minutes, make sure cool air is being supplied by the unit.
7. Turn the temperature setting to the highest position, stopping the unit. The indoor blower will continue to run for approximately 60-seconds.
8. Turn the thermostat system switch to "OFF" and disconnect all power when servicing the unit.

 WARNING	
HIGH VOLTAGE DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.	

HEAT PUMP START-UP PROCEDURE

1. Check the cooling mode for the heat pump in the same manner as above. The reversing valve is energized when the thermostat is placed in the cooling position. A clicking sound should be noticeable from the reversing valve. By lowering the temperature setting to call for cooling, the contractor is energized. The compressor, blower and fan should then be running. After the cooling mode is checked out, turn the thermostat system switch to "OFF".
2. Turn the thermostat system switch to "HEAT" and fan switch to "AUTO".
3. Slowly raise the heating temperature setting. When the heating first stage makes contact, stop raising the temperature setting. The compressor, blower and fan should now be running with the reversing valve in the de-energized (heating) position. After giving the unit time to settle out, make sure the unit is supplying heated air.
4. If the outdoor ambient is above 80°F, the unit may trip on its high pressure cut out when in heating mode. The compressor should stop. The heating cycle must be thoroughly checked, so postpone the test to another day when conditions are more suitable. **DO NOT FAIL TO TEST.**
5. If the outdoor ambient is low and the unit operates properly in the heating cycle, you may check the pressure cutout operation by blocking off the indoor return air until the unit trips.
6. If unit operates properly in the heating cycle, raise the temperature setting until the heating second stage makes contact. Supplemental resistance heat, if installed should now come on. Ensure all heaters energize.

NOTE: 15.2 SEER2 models have two stages of compressor heat. During resistance heat test, increase temperature setting until third stage heat is energized.

NOTE: If outdoor thermostats are installed, the outdoor ambient must be below the setpoint of these thermostats for the heaters to operate. It may be necessary to jumper these thermostats to check heater operation if outdoor ambient is mild.

If outdoor thermostats are installed, the outdoor ambient must be below the set point of these thermostats for the heaters to operate. It may be necessary to jumper these thermostats to check heater operation if outdoor ambient is mild.

7. **THERMOSTATS WITH EMERGENCY HEAT.** For thermostats with an emergency heat switch, raise the temperature setting until the heating second stage makes contact. The emergency heat switch is located at the bottom of the thermostat. Move the switch to emergency heat. The heat pump will stop, the blower will continue to run, all heaters will come on and the thermostat emergency heat indicator will come on.
8. If checking the unit in the wintertime, when the outdoor coil is cold enough to actuate the defrost control, observe at least one defrost cycle to make sure the unit defrosts completely.

FINAL SYSTEM CHECKS

1. Check to see if all supply and return air grilles are adjusted and the air distribution system is balanced for the best compromise between heating and cooling.
2. Check for air leaks in the ductwork.
3. Check air flow and refrigerant charge. See Sections on **Air Flow Measurement and Adjustment** and **Checking Charge**.
4. Ensure the unit is free of "rattles", and the tubing in the unit is free from excessive vibration. Also make sure tubes or lines are not rubbing against each other or sheet metal surfaces or edges. If discovered, ensure issue is corrected.
5. Set the thermostat at the appropriate setting for cooling and heating or automatic changeover for normal use.
6. Ensure the Owner is instructed on the unit operation, filter, servicing, correct thermostat operation, etc.

NOTE: THE "AIR CONDITIONER START-UP PROCEDURE" IS A RECOMMENDED STEP AS IT SERVES AS A SYSTEM INDICATOR THAT THE UNIT WILL OPERATE NORMALLY.

COMPONENTS

1. **Contactor** - This control is activated (closed) by the room thermostat for both heating and cooling. The contactor has a 24V coil and supplies power to the compressor and outdoor fan motor.
2. **Crankcase Heater** - This item is "ON" whenever power is supplied to the unit and the crankcase heater thermostat is closed. Crankcase heater thermostat closes at 67° and opens at 85°. It warms the compressor crankcase thereby preventing liquid migration and subsequent compressor damage. The insert type heater is self regulating. It is connected electrically to the contactor L1 and L2 terminals.
3. **Condenser Motor** - This item is activated by the contactor during heating and cooling, except during defrost and emergency heat operation.
4. **Compressor** - This item is activated by the contactor for heating and cooling, except during emergency heat. It is protected by an internal overload.
5. **Contactor Relay** - This control is activated by the thermostat (24V coil) and supplies power to the contactor.
6. **Defrost Control** - The Defrost Control provides time/temperature initiation and termination of the defrost cycle. When a defrost cycle is initiated, the Defrost Control shifts the reversing valve to "COOLING" mode, stops the outdoor fan and brings on supplemental heat. Normally, a defrost cycle will take only 2-3 minutes unless system is low on refrigerant charge or outdoor conditions are severe (i.e. windy and cold). The defrost control also provides for a 3 minute off cycle compressor delay.
7. **Outdoor Thermostat** - These optional controls are used to prevent full electric heater operation at varying outdoor ambient (0°F to 45°F). They are normally open above their set points and closed below to permit staging of indoor supplement heater operation. If the outdoor ambient temperature is below 0°F with 50% or higher RH, an outdoor thermostat (OT) must be installed and set at (0°) on the dial. Failure to comply with this requirement may result in damage to the product which may not be covered by the manufacturer's warranty.
8. **Optional Outdoor Thermostat Kit(OTHPPKG-02)** - This outdoor thermostat is an optional accessory that is pre-set from the factory at 37°F. No other field setting is required. It comes enclosed in a "birdhouse" and should be mounted on the corner panel near the control panel. Once the ambient temperature falls below the set temperature of 37°F during heating operation, the thermostat closes and forces the two-stage compressor to run in high stage.

NOTE: OTHPPKG-02 is required for 2-Ton heat pump.
9. **Reversing Valve Coil** - This coil is activated by the thermostat, in the cooling mode and during defrost. It positions the reversing valve pilot valve for cooling operation.

10. Indoor Blower Motor - Units with ECM Motors.

The ECM model indoor blower motor is activated by the room thermostat by cooling/heating or fan "ON" position. ECM motors are constant torque motors with the very low power consumption.

(See *Air Flow Measurement and Adjustment* for speed adjustment instructions).

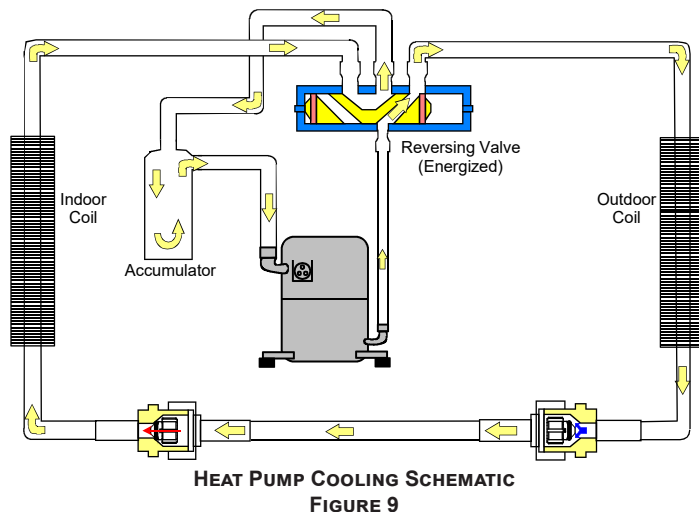
11. **Blower Interlock Relay** – This relay is used to energize the blower during the electric heat operation. Some room thermostats do not energize the motor during electric heat. This relay ensures blower operation when the room thermostat energizes heat. This relay is energized by the electric heat kit sequencer.

HEAT PUMP OPERATION

COOLING CYCLE

When the heat pump is in the cooling cycle, it operates exactly as a Air Conditioner unit. See Figure 9 - Heat Pump Cooling Schematic.

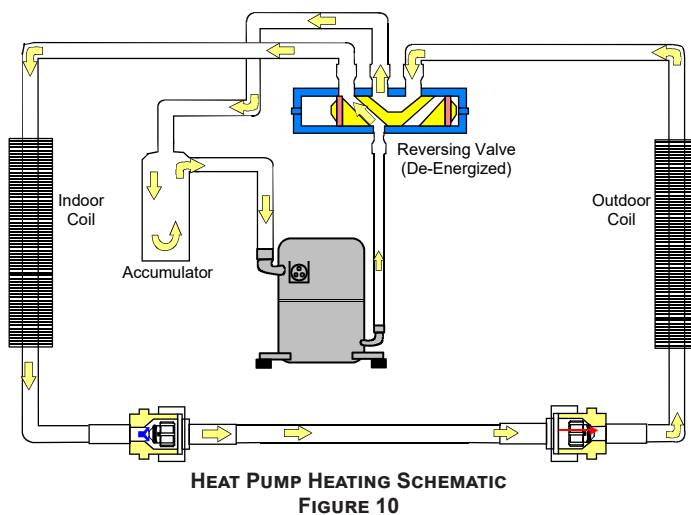
Typical Heat Pump System in Cooling



HEATING CYCLE

The heat pump operates in the heating cycle by redirecting refrigerant flow through the refrigerant circuit external to the compressor. This is accomplished with the reversing valve. Hot discharge vapor from the compressor is directed to the indoor coil (evaporator on the cooling cycle) where the heat is removed, and the vapor condenses to liquid. It then goes through the expansion device to the outdoor coil (condenser on the cooling cycle) where the liquid is evaporated, and the vapor goes to the compressor. When the solenoid valve coil is operated either from heating to cooling or vice versa, the piston in the reversing valve to the low pressure (high pressure) reverse positions in the reversing valve. The following figure, Figure 10 - Heat Pump Heating Schematic, show a schematic of a heat pump in the heating cycle.

TYPICAL HEAT PUMP SYSTEM IN HEATING



For Heat Pump units, the expansion devices are Thermal Expansion Devices (TXV) and perform the same function on the heating cycle as on the cooling cycle. The TXVs also act as check valves to allow for the reverse of refrigerant flow.

The expansion devices are flowrator distributors and perform the same function on the heating cycle as on the cooling cycle. The flowrator distributors also act as check valves to allow for the reverse of refrigerant flow. When the heat pump is on the heating cycle, the outdoor coil is functioning as an evaporator. The temperature of the refrigerant in the outdoor coil must be below the temperature of the outdoor air in order to extract heat from the air. Thus, the greater the difference in the outdoor temperature and the outdoor coil temperature, the greater the heating capacity of the heat pump. This phenomenon is a characteristic of a heat pump. It is a good practice to provide supplementary heat for all heat pump installations in areas where the temperature drops below 45°F. It is also a good practice to provide sufficient supplementary heat to handle the entire heating requirement should there be a component failure of the heat pump, such as a compressor, or refrigerant leak, etc.

Since the temperature of the refrigerant in the outdoor coil on the heating cycle is generally below freezing point, frost forms on the surfaces of the outdoor coil under certain weather conditions of temperature and relative humidity. Therefore, it is necessary to reverse the flow of the refrigerant to provide hot gas in the outdoor coil to melt the frost accumulation. This is accomplished by reversing the heat pump to the cooling cycle. At the same time, the outdoor fan stops to hasten the temperature rise of the outdoor coil and lessen the time required for defrosting. The indoor blower continues to run and the supplementary heaters are energized.

DEFROST CONTROL

During operation the power to the circuit board is controlled by a temperature sensor, which is clamped to a return bend entering the outdoor coil. Defrost timing periods of 30, 60 and 90 minutes may be selected by setting the circuit board jumper to 30, 60 and 90 respectively. Accumulation of time for the timing period selected starts when the sensor closes (approximately $30 \pm 5^\circ\text{F}$), and when the wall thermostat calls for heat. At the end of the timing period, the unit's defrost cycle will be initiated provided the sensor remains closed. When the sensor opens (approximately $60 \pm 5^\circ\text{F}$), the defrost cycle is terminated and the timing period is reset. If the defrost cycle is not terminated due to the sensor temperature, a twelve minute override interrupts the unit's defrost period.

SUGGESTED FIELD TESTING/TROUBLE SHOOTING

TESTING DEFROST CONTROL

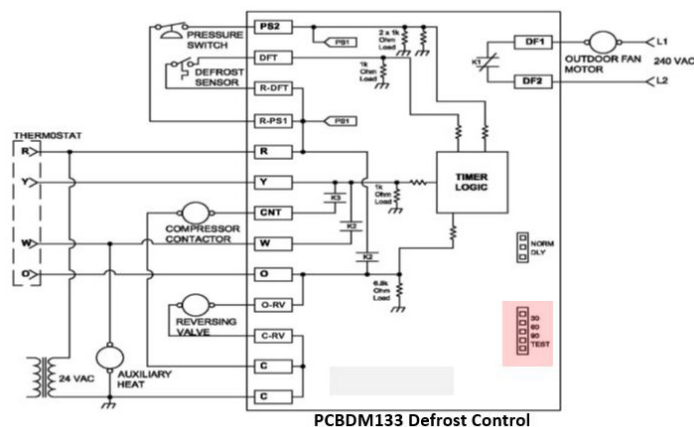
NOTE: PCBDM133 DEFROST CONTROLS HAVE A THREE (3) MINUTE COMPRESSOR OFF CYCLE DELAY.

NOTE: THE PCBDM133 DEFROST CONTROLS ARE SHIPPED FROM THE FACTORY WITH THE COMPRESSOR DELAY OPTION SELECTED. THIS WILL DE-ENERGIZE THE COMPRESSOR CONTACTOR FOR 30 SECONDS ON DEFROST INITIATION AND DEFROST TERMINATION. IF THE JUMPER IS SET TO NORMAL, THE COMPRESSOR WILL CONTINUE TO RUN DURING DEFROST INITIATION AND DEFROST TERMINATION. THE CONTROL WILL ALSO IGNORE THE LOW-PRESSURE SWITCH CONNECTED TO R-PS1 AND PS2 FOR 5 MINUTES UPON DEFROST INITIATION AND 5 MINUTES AFTER DEFROST TERMINATION.

To check the defrost control for proper sequencing, proceed as follows: With power ON; unit not running.

1. Jumper defrost thermostat by placing a jumper wire across the terminals "DFT" and "R"/"R-DFT" at defrost control board.
2. Remove jumper from timer pins and jump across test pins on defrost control board.
NOTE: Do not use screwdriver or field supplied jumper to test the control.
3. Set thermostat to call for heating. System should go into defrost within 21 seconds.
4. Immediately remove jumper from test pins.
5. Using VOM check for voltage across terminals "C & O". Meter should read 24 volts.
6. Using VOM check for voltage across fan terminals DF1 and DF2 on the board. Should read line voltage (208-230 VAC) indicating the relay is open in the defrost mode.
7. Using VOM check for voltage across "W"/"W2" & "C" terminals on the board. Should read 24 volts.
8. If not as above, replace control board.
9. Set thermostat to off position and disconnect power. Remove jumper from defrost thermostat and replace timer jumper to the desired defrost time.

NOTE: REMOVE JUMPER ACROSS DEFROST THERMOSTAT BEFORE RETURNING SYSTEM TO SERVICE. SEE FIGURE 11 - DEFROST CONTROL WIRING DIAGRAM.



DEFROST CONTROL WIRING SCHEMATIC
FIGURE 11

TESTING DEFROST THERMOSTAT

1. Install a thermocouple type temperature test lead on the tube adjacent to the defrost control. Insulate the lead point of contact.
2. Check the temperature at which the control closes its contacts by lowering the temperature of the control. It should close at approximately 30°F .
3. Check the temperature at which the control opens its contacts by raising the temperature of the control. It should open at approximately 60°F . If not as above, replace control.

AIR FLOW MEASUREMENT AND ADJUSTMENT

Please review the *Duct Work* section before proceeding with the airflow measurements and adjustments in this section.

Unit blower curves (see Specification Sheets) are based on external static pressure (ESP per in/W.C.). The duct openings on the unit are considered internal static pressure. As long as ESP is maintained, the unit will deliver the proper air up to the maximum static pressure listed for the CFM required by the application (i.e. home, building, etc.)

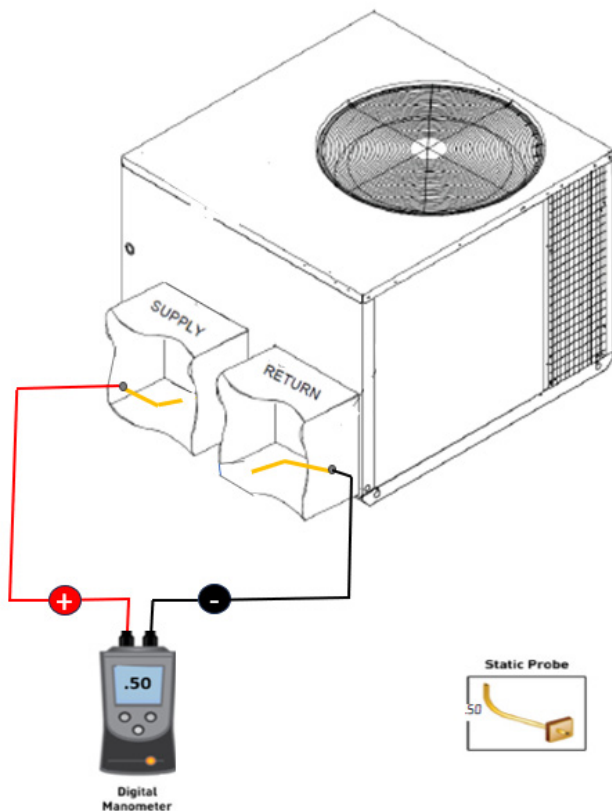
In general, 400 CFM per ton of cooling capacity is a rule of thumb. Some applications depending on the sensible and latent capacity requirements may need only 350 CFM or up to 425 CFM per ton. Check condition space load requirements (from load calculations) and equipment expanded ratings data to match CFM and capacity.

After unit is set and duct work completed, verify the ESP with a 1-inch inclined manometer with pilot tubes or a Magnahelic gauge and confirm CFM to blower curves in the Specification Sheets. All units have multiple speed blower motors. If factory selected speed is not utilized, the speed tap can be changed.

NOTE: NEVER RUN CFM BELOW 300 CFM PER TON, EVAPORATOR FREEZING OR POOR UNIT PERFORMANCE IS POSSIBLE.

TOTAL EXTERNAL STATIC PRESSURE

1. Using a digital manometer measure the static pressure of the return duct at the inlet of the unit (Negative Pressure). See Figure 12 - Total External Static.



TOTAL EXTERNAL STATIC
FIGURE 12

2. Measure the static pressure of the supply duct (Positive Pressure).
3. Add the two readings together
NOTE: Both readings may be taken simultaneously and read directly on the manometer if so desired.
4. Consult proper table for quantity of air.

If the external static pressure exceeds the minimum or maximum allowable statics, check for closed dampers, dirty filter, undersized or poorly laid out ductwork.

AIR FLOW ADJUSTMENTS FOR INDOOR BLOWER MOTOR

ECM MOTOR

The ECM control board is factory set with the dip switch #4 in the "ON" position for single stage units and to the "OFF" position for the two-stage units. The remaining dip switches shall be verified and adjusted during installation to the tap settings as shown in the airflow table-see Appendix. **For most applications, the settings are to be changed according to the electric heat size.**

The ECM motor provides many features not available on the traditional PSC motor. These features include:

- Improved Efficiency
- Constant CFM
- Soft Start and Stop
- Improved Humidity Control

ECM MOTOR SPEED ADJUSTMENT

Each ECM blower motor has been preprogrammed for operation at 4 distinct air flow levels when operating in Cooling/Heat Pump mode or Electric Heat mode. These 4 distinct levels may also be adjusted slightly lower or higher if desired. The adjustment between levels and the trim adjustments are made by changing the dip switch(s) either to an "OFF" or "ON" position.

See Appendix for Blower Performance Data tables.

DP5HM DIP SWITCH FUNCTIONS

The ECM motor has an electronic control that contains eight (8) 2-position dip switches. The function of these dip switches is shown below. See Figure 13 - DIP Switch Function.

DIP SWITCH NUMBER	FUNCTION
1	Electric Heat
2	
3	N/A
4	Indoor Thermostat
5	Cooling & Heat Pump CFM
6	
7	CFM Trim Adjust
8	

DIP SWITCH FUNCTION
FIGURE 13

DP5HM CFM DELIVERY AND ADJUSTMENTS

See the Blower Performance section.

DP5HM THERMOSTAT "FAN ONLY" MODE

During Fan Only Operations, the CFM output is approximately 63% of the high stage cooling setting.

DP5HM HUMIDITY CONTROL

When using a Humidistat (normally closed), cut jumper PJ6 on the control board. The Humidistat will only affect both low stage and high stage cooling air flow by adjusting the Air flow to 85%.

SUPERHEAT AND SUBCOOLING

CHECKING SUBCOOLING

NOTE: UNITS WITH A TXV SHOULD BE CHARGED TO SUBCOOLING ONLY.

Example:

- a. Liquid Line Pressure = 417 PSI
- b. Corresponding Temp. = 120°F
- c. Thermometer on Liquid line = 109°F

To obtain the amount of subcooling, subtract 109°F from 120°F. The difference is 11° subcooling. See the specification sheet or technical information manual for the design subcooling range for your unit.

SUBCOOLING FORMULA = SATURATED LIQUID LINE TEMPERATURE – LIQUID LINE TEMPERATURE

CHECKING SUPERHEAT

EXAMPLE:

- Suction Pressure = 143 PSI
- Corresponding Temp. = 50°F
- Thermometer on Suction line = 59°F

To obtain the degrees temperature of superheat, subtract 50°F from 59°F. The difference is 9° Superheat. The 9° Superheat would fall in the ± range of allowable superheat.

SUPERHEAT = SUCTION LINE TEMP – SAT. SUCTION TEMP.

Superheat Adjustment

NOTE: SUPERHEAT ADJUSTMENTS SHOULD NOT BE MADE UNTIL INDOOR AMBIENT CONDITIONS HAVE STABILIZED. THIS COULD TAKE UP TO 24 HOURS DEPENDING ON INDOOR TEMPERATURE AND HUMIDITY. BEFORE CHECKING SUPERHEAT, RUN THE UNIT IN COOLING FOR 10-15 MINUTES OR UNTIL REFRIGERANT PRESSURES STABILIZE. USE THE FOLLOWING GUIDELINES AND METHODS TO CHECK UNIT OPERATION AND ENSURE THAT THE REFRIGERANT CHARGE IS WITHIN LIMITS.

For TXV systems, to adjust superheat, unscrew the cover from the expansion valve, locate the adjustment screw, and turn it clockwise (in) to increase superheat or counterclockwise (out) to decrease superheat. It is recommended to make small adjustments at a time, 1/8-1/4 turn increments. Replace adjustment cap. Wait a minimum of 10 minutes between adjustments to allow time for the TXV and pressures to stabilize.

REFRIGERANT CHARGE CHECK

NOTE: FOR OPTIMAL PERFORMANCE, FOLLOW CHARGING INSTRUCTIONS BELOW.

Units with Fixed Orifice Devices

All package units with fixed orifice devices are charged using the superheat method at the compressor suction line. To increase super heat, remove charge and to decrease super heat, add charge. After superheat is adjusted, it is recommended to check unit subcooling at the condenser coil liquid line. See Design Superheat and Subcooling table for targets on each model.

Units with Expansion Valve (TXV)

Single Stage Cooling Application: Refer to the Design Superheat & Subcooling table.

Two Stage Cooling Application: Run unit on Low Stage cooling and refer to Design Superheat & Subcooling table.

- Purge gauge lines. Connect service gauge manifold to access fittings. Run system at least 10 minutes to allow pressure to stabilize.
- Temporarily install thermometer on liquid (small) line near liquid line access fitting with adequate contact and insulate for best possible reading.
- Check subcooling and superheat. System should have a subcooling and superheat within the range listed on the Design Superheat and Subcooling table.
 - If subcooling and superheat are low, adjust TXV superheat, then check subcooling.

NOTE: To adjust superheat, turn the valve stem clockwise to increase and counterclockwise to decrease.
 - If subcooling is low and superheat is high, add charge to raise subcooling then check superheat.
 - If subcooling and superheat are high, adjust TXV valve superheat, then check subcooling.
 - If subcooling is high and superheat is low, adjust TXV valve superheat and remove charge to lower the subcooling.

NOTE: Do NOT adjust the charge based on suction pressure unless there is a gross undercharge.
- Disconnect manifold set, installation is complete.

Design Superheat & Subcooling					
Model	Superheat ± 2°F	Subcooling ± 1°F	Expansion Device	Cooling Stage	Outdoor Ambient (°F)
DP5HM2441	10	6	TXV	Low	82
DP5HM3041	5	9	TXV	Low	82
DP5HM3641	11	7	TXV	Low	82
DP5HM4241	8	7	TXV	Low	82
DP5HM4841	8	9	TXV	Low	82

DESIGN SUPERHEAT AND SUBCOOLING TABLE
FIGURE 14

ELECTRICAL HEAT INSTALLATION & ADJUSTMENT

HEATER KIT

NOTE: A SEPARATE POWER SUPPLY IS REQUIRED FOR HKTP HEATER KITS.

Refer to the specification manual for heater kit match up and Heater Kit Electrical Data.

This series of electric cooling and, heat pump package equipment is designed to accept a field installed electric heat kit. The unit is equipped to easily install the HKTP or HKR Series Electric Heat Kit. Full Installation Instructions are included in this kit. Please use this document for guidance in field equipping the package unit with electric heat.

Part Number	Max E.S.P.		Circuit 1		Circuit 2		Output @ 240V	
	<i>IN. W.C</i>	<i>kPa</i>	<i>MCA</i>	<i>MOP</i>	<i>MCA</i>	<i>MOP</i>	<i>kW</i>	<i>BTU/hr</i>
HKTPD051	0.8	0.19	28.74	25	-	-	4.75	16200
HKTPD081	0.8	0.19	36.46	40	-	-	7.00	23800
HKTPD101	0.8	0.19	49.48	50	-	-	9.50	32400
HKTPD151	0.8	0.19	49.48	50	24.74	25	14.25	48600
HKTPD191	0.5	0.12	49.48	50	36.46	25	19.00	64800
HKTPD201	0.8	0.19	49.48	50	36.46	25	19.00	64800

DP5HM						
Model	Heater Kit Part #					
	<i>HKTPD051</i>	<i>HKTPD081</i>	<i>HKTPD101</i>	<i>HKTPD151</i>	<i>HKTPD191</i>	<i>HKTPD201</i>
DPHH52441	X	X	X			
DPHH53041	X	X	X	X		
DPHH53641	X	X	X	X		
DPHH54241	X	X	X	X		X
DPHH54841	X	X	X	X		X
DPHH56041	X	X	X	X		X
DPHM52441	X	X	X			
DPHM53041	X	X	X	X		
DPHM53641	X	X	X	X		
DPHM54241	X	X	X	X		
DPHM54841	X	X	X	X	X	

Minimum Airflow [scfm] for 0.0 - 0.5 E.S.P.					
Model	Heater Kit Part #				
	<i>HKTPD051</i>	<i>HKTPD081</i>	<i>HKTPD101</i>	<i>HKTPD151</i>	<i>HKTPD191</i>
DP5HM2441	704	704	704		
DP5HM3041	948	948	948	1094	
DP5HM3641	1154	1154	1154	1276	
DP5HM4241	1247	1247	1247	1431	
DP5HM4841	1562	1562	1562	1691	1691

Minimum Airflow [scfm] for 0.5 - 0.8 E.S.P.					
Model	Heater Kit Part #				
	<i>HKTPD051</i>	<i>HKTPD081</i>	<i>HKTPD101</i>	<i>HKTPD151</i>	<i>HKTPD191</i>
DP5HM2441	972	972	972		
DP5HM3041	1094	1094	1094	1094	
DP5HM3641	1276	1276	1276	1276	
DP5HM4241	1431	1431	1431	1431	
DP5HM4841	1691	1691	1691	1691	1691


Choose the heat kit that fits the application for the specific installation. Permanently mark the unit's nameplate with the model being installed. High and low voltage connections are detailed in the heat kit instructions. Indoor Blower motor speed tap selection may need to be modified to accommodate normal continuous operation to prevent a nuisance trip.

MAINTENANCE

The Self Contained Package Air Conditioner and Heat Pump should operate for many years without excessive service calls if the unit is installed properly. However it is recommended that the homeowner inspect the unit before a seasonal start up. The coils should be free of debris so adequate air flow is achieved. The return and supply registers should be free of any obstructions. The filters should be cleaned or replaced. These few steps will help to keep the product up time to a maximum. The Troubleshooting Chart (see Appendix) should help in identifying problems if the unit does not operate properly.

Refer to Blower Performance section in the Appendix - Higher air flow lowers temperature rise.

Lower air flow raises temperature rise.

	WARNING
HIGH VOLTAGE DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.	
	

SERVICE

THE FOLLOWING INFORMATION IS FOR USE BY QUALIFIED SERVICE AGENCY ONLY: OTHERS SHOULD NOT ATTEMPT TO SERVICE THIS EQUIPMENT.

COMMON CAUSES OF UNSATISFACTORY OPERATION OF HEAT PUMP ON THE HEATING CYCLE

INADEQUATE AIR VOLUME THROUGH INDOOR COIL

When a heat pump is in the heating cycle, the indoor coil is functioning as a condenser. The return air filter must always be clean, and sufficient air volume must pass through the indoor coil to prevent excessive discharge pressure, and high pressure cut out.

OUTSIDE AIR INTO RETURN DUCT

Do not introduce cold outside air into the return duct of a heat pump installation. Do not allow air entering the indoor coil to drop below 65°F. Air below this temperature will cause low discharge pressure, thus low suction pressure, and excessive defrost cycling resulting in low heating output. It may also cause false defrosting.

UNDERCHARGE

An undercharged heat pump on the heating cycle will cause low discharge pressure resulting in low suction pressure and frost accumulation on the outdoor coil.

POOR "TERMINATING" SENSOR CONTACT

The unit's defrost terminating sensor must make good thermal contact with the outdoor coil tubing. Poor contact may not terminate the unit's defrost cycle quickly enough to prevent the unit from cutting out on high discharge pressure.

MALFUNCTIONING REVERSING VALVE - THIS MAY BE DUE TO:

- 1. Solenoid not energized** - In order to determine if the solenoid is energized, touch the nut that holds the solenoid cover in place with a screwdriver. If the nut magnetically holds the screwdriver, the solenoid is energized and the unit is in the cooling cycle.
- 2. No voltage at unit's solenoid** - Check unit voltage. If no voltage, check wiring circuit.
- 3. Valve will not shift:**
 - a. Undercharged** - Check for leaks;
 - b. Valve Body Damaged** - Replace valve;
 - c. Unit Properly Charged** - If it is on the heating cycle, raise the discharge pressure by restricting air flow through the indoor coil. If the valve does not shift, tap it lightly on both ends with a screwdriver handle. **DO NOT TAP THE VALVE BODY.** If the unit is on the cooling cycle, raise the discharge pressure by restricting air flow through the outdoor coil. If the valve does not shift after the above attempts, cut the unit off and wait until the discharge and suction pressure equalize, and repeat above steps. If the valve does not shift, replace it.

REVERSING VALVE TROUBLESHOOTING

CHECKING REVERSING VALVE AND SOLENOID

Reversing valve used in heat pumps could potentially leak internally. Discharge gases can leak into the suction inside the valve. Compound gages will give the same symptoms as bad compressor valves or broken scroll flanks. The temperature between true suction and the suction line after the valve should not be greater than 4 degrees. **NOTE:** The center tube is always the suction line and should be cold.

Troubleshooting the Reversing Valve for Electrical Failure

- Place unit into the cooling mode. Test for 24 volts at the solenoid. If there is no voltage present at coil, check the control voltage.
- If voltage is present, loosen the nut on the top of the coil. Remove the coil, there should be slight resistance.

3. If the slight resistance is felt, remove the coil. As you remove the coil listen carefully, an audible click should be detected. The clicking is due to the movement of the pilot valve plunger. The absence of a clicking sound indicates the plunger is stuck.

Troubleshooting Mechanical Failures on a Reversing Valve by Pressure

1. Troubleshooting the reversing valve can be done by pressure and touch.
2. Raise the head pressure. In the cooling mode block the fan exhaust. Once head pressure has been raised, cycle between cooling and heating and see if the piston can be freed.

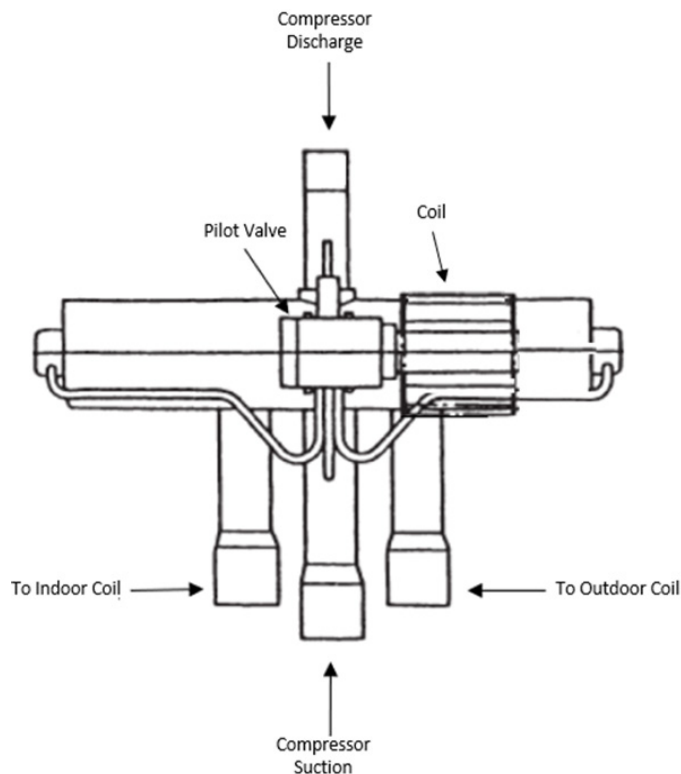
Troubleshooting Mechanical Failures on a Reversing Valve by Temperature

1. When operating properly the valve contains refrigerant gases at certain temperatures.
2. The discharge line should be the same temperature after the valves discharge line.
3. The true suction should be the same as the suction line after the valve. If there is a 4-degree difference, valve is leaking

When stuck in the mid-position, part of the discharge gas from the compressor is directed back to the suction side, resulting in excessively high suction pressure. An increase in the suction line temperature through the reversing valve can also be measured. Check operation of the valve by starting the system and switching the operation from COOLING to HEATING cycle.

If the valve fails to change its position, test the voltage (24V) at the valve coil terminals, while the system is on the COOLING cycle.

If voltage is registered at the coil, tap the valve body lightly while switching the system from HEATING to COOLING, etc. If this fails to cause the valve to switch positions, remove the coil connector cap and test the continuity of the reversing valve solenoid coil. If the coil does not test continuous - replace it. If the coil test continuous and 24 volts is present at the coil terminals, the valve is inoperative - replace it.



APPENDIX TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
High head - low suction	a. Restriction in liquid line or TXV not functioning	a. Remove or replace with proper size TXV.
High head - high or normal suction	a. In Cooling: Dirty condenser coil In Heating: Dirty filter, Dirty indoor coil b. Overcharged c. In Cooling: Condenser fan not running c. In Heating: Indoor blower not running	a. Clean coil b. Correct System charge c. Repair or Replace
Low head - high suction	a. Incorrect TXV. b. Defective compressor valves c. TXV not functioning properly d. Incorrect TXV setting	a. Replace with correct TXV b. Replace compressor c. Check for debris in TXV or deformed TXV. Remove debris or replace TXV. d. Check Super Heat
Unit will not run	a. Power off or loose electrical connection b. Thermostat out of calibration set too high c. Defective contactor d. Blown fuses or tripped breaker e. Transformer defective f. High or low pressure control open (Optional) g. Compressor overload contacts open	a. Check for unit voltage at contactor in unit b. Reset c. Check for 24 volts at contactor coil replace if contacts are open d. Replace fuse or reset breaker e. Check wiring - replace transformer f. Check high pressure control or check unit charge High pressure control opens at 610 psig Low pressure control opens at 22 psig g. Replace compressor NOTE: Wait at least 2 hours for overload to reset
Condenser fan runs, compressor doesn't	a. Loose connection b. Compressor stuck, grounded or open winding open internal overload c. Low voltage connection d. Capacitor weak, open, or shorted	a. Check for unit voltage at compressor check & tighten all connections b. Wait at least 2 hours for overload to reset. If still open, replace the compressor. c. At compressor terminals, voltage must be within 10 % of nameplate volts when unit is operating d. Check capacitor. If defective, replace.
Low suction - cool compressor Iced evaporator coil	a. In Cooling: Low indoor airflow In Heating: Dirty outdoor coil, defective defrost thermostat, defective defrost control board, outdoor fan not running, low refrigerant charge. b. Low airflow c. Low refrigerant charge d. Operating unit in cooling mode below 65°F outdoor temperature	a. Increase speed of blower or reduce restriction - replace air filters b. Check - should be approximately 400 CFM per ton, dirty air filters, all duct outlets open c. Properly charge unit d. Install or check low ambient control, should be open below 65°F outdoor temperature
Compressor short cycles	a. Defective overload protector b. Unit cycling on low pressure control c. High pressure switch cuts out	a. Replace - check for correct voltage b. Check refrigerant charge and / or airflow c. Check airflow (indoor & outdoor), check expansion device
Registers sweat	a. Low airflow	a. Increase speed of blower or reduce restriction replace air filters
High suction pressure	a. Excessive load b. Defective compressor c. Reversing valve not seating properly.	a. Recheck load calculation b. Replace c. Replace
Insufficient cooling	a. Improperly sized unit b. Improper airflow c. Incorrect refrigerant charge. d. Incorrect voltage	a. Recalculate load b. Check - should be approximately 400 CFM per ton c. Charge per procedure attached to unit service panel d. At compressor terminals, voltage must be within 10% of nameplate volts when unit is operating

DP5HM BLOWER PERFORMANCE DATA

DP5HM2441					
Cooling / HP Speed	Adjust Tap	CFM*	Electric Heat	Adjust Tap	CFM*
D	Minus	630	D	Minus	630
	Normal	700		Normal	700
	Plus	770		Plus	770
C	Minus	743	C	Minus	743
	Normal	825		Normal	825
	Plus	908		Plus	908
B	Minus**	855	B	Minus**	855
	Normal	950		Normal	950
	Plus	1,045		Plus	1,045
A	Minus	945	A	Minus	945
	Normal	1,050		Normal	1,050
	Plus	1,155		Plus	1,155
* - @ 0.1 - 0.8 ESP					
** - Factory Default					

DP5HM3041					
Cooling / HP Speed	Adjust Tap	CFM*	Electric Heat	Adjust Tap	CFM*
D	Minus	720	D	Minus	720
	Normal	800		Normal	800
	Plus	880		Plus	880
C	Minus	900	C	Minus	900
	Normal	1,000		Normal	1,000
	Plus	1,100		Plus	1,100
B	Minus	990	B	Minus	990
	Normal**	1,100		Normal**	1,100
	Plus	1,210		Plus	1,210
A	Minus	1,125	A	Minus	1,125
	Normal	1,250		Normal	1,250
	Plus	1,375		Plus	1,375
* - @ 0.1 - 0.8 ESP					
** - Factory Default					

DP5HM3641					
Cooling / HP Speed	Adjust Tap	CFM*	Electric Heat	Adjust Tap	CFM*
D	Minus	720	D	Minus	720
	Normal	800		Normal	800
	Plus	880		Plus	880
C	Minus	900	C	Minus	900
	Normal	1,000		Normal	1,000
	Plus	1,100		Plus	1,100
B	Minus	990	B	Minus	990
	Normal	1,100		Normal	1,100
	Plus**	1,210		Plus**	1,210
A	Minus	1,125	A	Minus	1,125
	Normal	1,250		Normal	1,250
	Plus	1,375		Plus	1,375
* - @ 0.1 - 0.8 ESP					
** - Factory Default					

DP5HM4241					
Cooling / HP Speed	Adjust Tap	CFM*	Electric Heat	Adjust Tap	CFM*
D	Minus	1,103	D	Minus	1,103
	Normal	1,225		Normal	1,225
	Plus**	1,348		Plus**	1,348
C	Minus	1,260	C	Minus	1,260
	Normal	1,400		Normal	1,400
	Minus	1,540		Plus	1,540
B	Minus	1,530	B	Minus	1,530
	Normal	1,700		Normal	1,700
	Plus	1,870		Plus	1,870
A	Minus	1,620	A	Minus	1,620
	Normal	1,800		Normal	1,800
	Plus	1,980		Plus	1,980
* - @ 0.1 - 0.8 ESP					
** - Factory Default					

DP5HM4841					
Cooling / HP Speed	Adjust Tap	CFM*	Electric Heat	Adjust Tap	CFM*
D	Minus	1,103	D	Minus	1,103
	Normal	1,225		Normal	1,225
	Plus	1,348		Plus	1,348
C	Minus	1,260	C	Minus	1,260
	Normal	1,400		Normal	1,400
	Plus	1,540		Plus	1,540
B	Minus	1,530	B	Minus	1,530
	Normal	1,700		Normal	1,700
	Plus	1,870		Plus	1,870
A	Minus**	1,620	A	Minus**	1,620
	Normal	1,800		Normal	1,800
	Plus	1,980		Plus	1,980
* - @ 0.1 - 0.8 ESP					
** - Factory Default					

DP5HM BLOWER PERFORMANCE DATA

**CFM Output
for DIP Switch Combinations 1-2 (Electric Heat)**

MODEL	SPEED TAP	SWITCH 1	SWITCH 2	ELECTRIC HEAT (CFM)
DP5HM24	A	Off	Off	1050
	B	On	Off	950
	C	Off	On	825
	D	On	On	700
DP5HM30	A	Off	Off	1250
	B	On	Off	1100
	C	Off	On	1000
	D	On	On	800
DP5HM36	A	Off	Off	1250
	B	On	Off	1100
	C	Off	On	1000
	D	On	On	800
DP5HM42	A	Off	Off	1800
	B	On	Off	1700
	C	Off	On	1400
	D	On	On	1225
DP5HM48	A	Off	Off	1800
	B	On	Off	1700
	C	Off	On	1400
	D	On	On	1225

**CFM Output
for DIP Switch Combinations 5-6 (Cooling/Heating)**

MODEL	SPEED TAP	SWITCH 5	SWITCH 6	COOLING/HP CFM
DP5HM24	A	Off	Off	1050
	B	On	Off	950
	C	Off	On	825
	D	On	On	700
DP5HM30	A	Off	Off	1250
	B	On	Off	1100
	C	Off	On	1000
	D	On	On	800
DP5HM36	A	Off	Off	1250
	B	On	Off	1100
	C	Off	On	1000
	D	On	On	800
DP5HM42	A	Off	Off	1800
	B	On	Off	1700
	C	Off	On	1400
	D	On	On	1225
DP5HM48	A	Off	Off	1800
	B	On	Off	1700
	C	Off	On	1400
	D	On	On	1225

DIP SWITCH FUNCTION SELECTION

Electric Heat DIP Switch Settings		
Speed Tap	Switch 1	Switch 2
A	OFF	OFF
B	ON	OFF
C	OFF	ON
D	ON	ON

Cooling/HP DIP Switch Settings		
Speed Tap	Switch 5	Switch 6
A	OFF	OFF
B	ON	OFF
C	OFF	ON
D	ON	ON

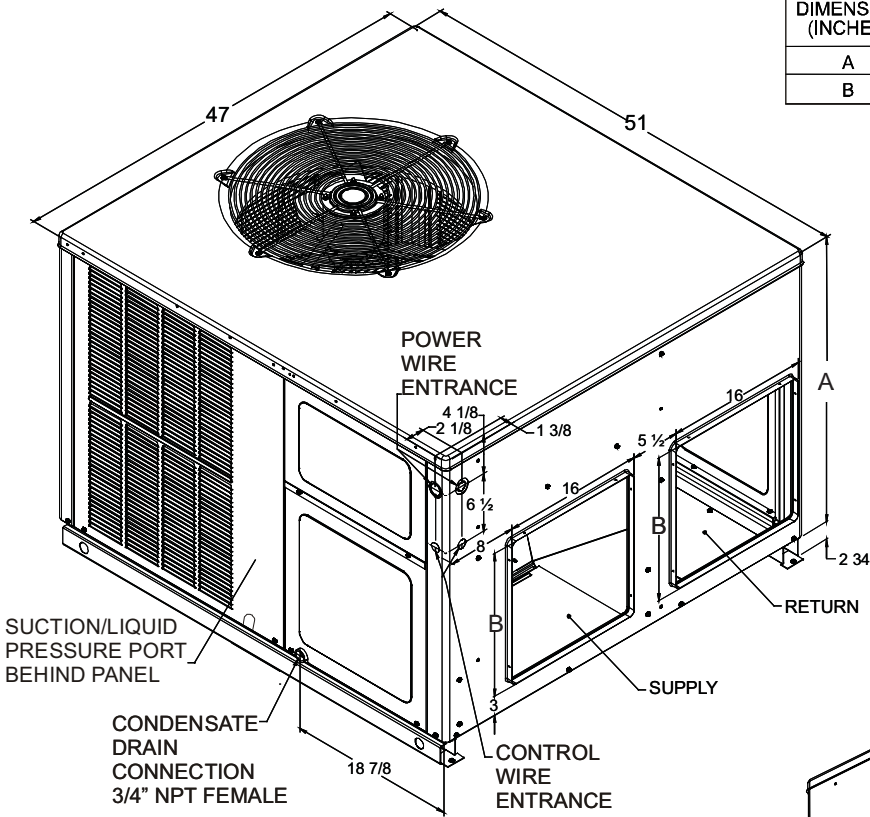
DIP Switch Settings for Single & Two-Stage Thermostat		
Thermostat	Switch 3	Switch 4
Single-Stage	N/A	ON
Two-Stage	N/A	OFF

Speed Tap Adjustment Through DIP Switches		
CFM	Switch 7	Switch 8
Plus 10%	ON	OFF
Normal	OFF	OFF
Minus 10%	OFF	ON

Model	Default DIP Switch Setting							
	1	2	3	4	5	6	7	8
DP5HM2441	ON	OFF	OFF	OFF	ON	OFF	OFF	ON
DP5HM3041	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
DP5HM3641	ON	OFF	OFF	OFF	ON	OFF	ON	OFF
DP5HM4241	ON	ON	OFF	OFF	ON	ON	ON	OFF
DP5HM4841	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON

DIMENSIONS

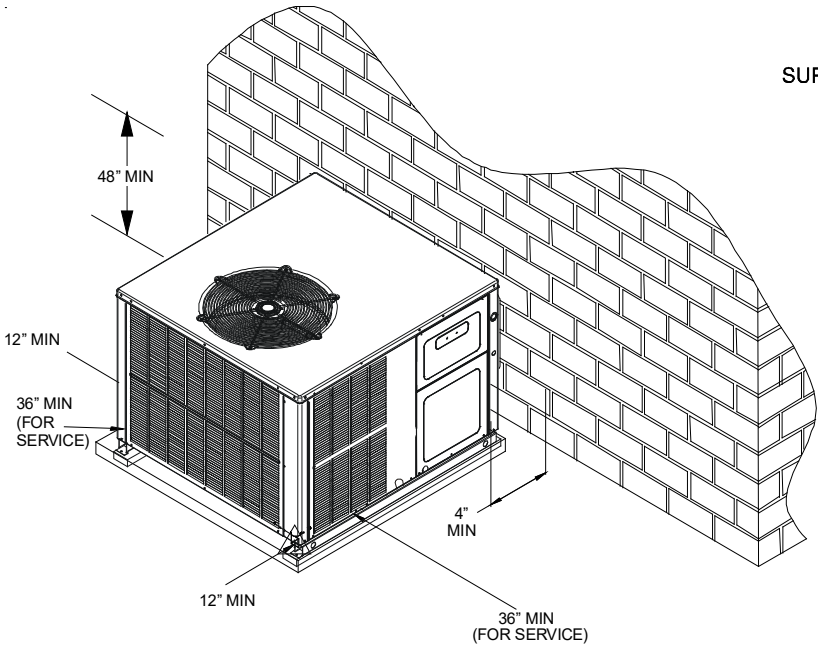
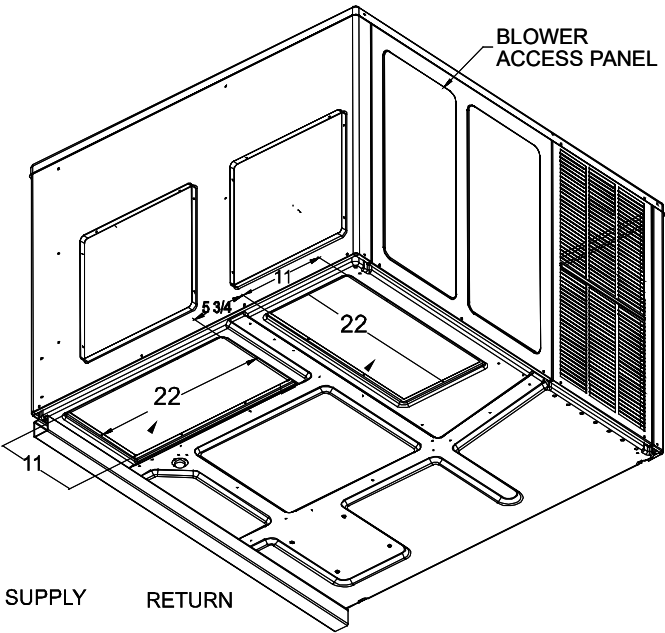
DIMENSION (INCHES)	MEDIUM	LARGE
A	32	40
B	16	18



MEDIUM CHASSIS
 DP5HM2441
 DP5HM3041

LARGE CHASSIS
 DP5HM3641
 DP5HM4241
 DP5HM4841

MINIMUM CLEARANCES
 NOTE: Roof overhang
 Should be no more than 48"



NOTE: Roof overhang should be no more than 36"

PACKAGE UNITS - HEAT PUMP AND AC UNITS

HOMEOWNER'S ROUTINE MAINTENANCE RECOMMENDATIONS

We strongly recommend a bi-annual maintenance checkup be performed by a qualified service agency before the heating and cooling seasons begin.



WARNING

HIGH VOLTAGE!

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



REPLACE OR CLEAN FILTER

IMPORTANT NOTE: NEVER OPERATE UNIT WITHOUT A FILTER INSTALLED AS DUST AND LINT WILL BUILD UP ON INTERNAL PARTS RESULTING IN LOSS OF EFFICIENCY, EQUIPMENT DAMAGE AND POSSIBLE FIRE.

A RETURN AIR FILTER IS NOT SUPPLIED WITH THIS UNIT; HOWEVER, THERE MUST BE A MEANS OF FILTERING THE RETURN AIR. AN INDOOR AIR FILTER MUST BE USED WITH YOUR COMFORT SYSTEM. A PROPERLY MAINTAINED FILTER WILL KEEP THE INDOOR COIL OF YOUR COMFORT SYSTEM CLEAN. A DIRTY COIL COULD CAUSE POOR OPERATION AND/OR SEVERE EQUIPMENT DAMAGE.

The installer of your unit can tell you where your filter(s) are and how to clean or replace them.

Check your return filter(s) at least once every two months. When they are dirty, replace or clean as required. Disposable type filters should be replaced. Reusable type filters may be cleaned.

NOTE: REUSABLE TYPE FILTERS SHOULD BE WASHED WITH WARM WATER, DRIED COMPLETELY AND SPRAYED WITH AN ADHESIVE ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

You may want to ask your dealer about high efficiency filters. High efficiency filters are available in both electronic and non-electronic types. These filters can do a better job of catching small airborne particles.

Improper filter maintenance is the most common cause of inadequate heating or cooling performance. Filters should be cleaned (permanent) or replaced (disposable) every two months or as required. When replacing a filter, it must be replaced with a filter of the same type and size and always make certain the air flow arrows on the filter point in the proper direction.

CONDENSER AND EVAPORATOR MOTORS

The bearings on the air circulating blower motor and condenser motor are permanently lubricated and require no further lubrication.

COMPRESSOR

The compressor motor is hermetically sealed and does not require additional oiling.

ALUMINUM INDOOR COIL CLEANING (QUALIFIED SERVICER ONLY)

This unit is equipped with an aluminum tube evaporator coil. The safest way to clean the evaporator coil is to simply flush the coil with water. This cleaning practice remains as the recommended cleaning method for both copper tube and aluminum tube residential cooling coils.

An alternate cleaning method is to use one of the products listed in the technical publication TP-109 (shipped in the literature bag with the unit) to clean the coils. The cleaners listed are the only agents deemed safe and approved for use to clean round tube aluminum coils. TP-109 is available on the web site in Partner Link > Service Toolkit.

NOTE: ENSURE COILS ARE RINSED WELL AFTER USE OF ANY CHEMICAL CLEANERS.

ANNUAL INSPECTION (QUALIFIED SERVICER ONLY)

Your package unit should be inspected by a qualified installer, or service agency at least twice every year. This check should be performed before the heating and cooling seasons begin. This will ensure that the system is performing properly and safely. Repair as necessary.

- Check physical support of the unit. Ensure it is sound without any sagging, cracks, or gaps, around the base.
- Check for obvious signs of deterioration of the unit.
- Check both condenser and evaporator coil to make sure each are clean.
- Return Air Connection. Check for physical soundness and ensure that the connection is firmly sealed to the package unit casing.
- Wiring. Check wires for damage. Check electrical connections for tightness and/or corrosion.
- Filters. Check that filters are clean and in the proper placement in the unit or duct system.
- Louvers. Inspect air inlet louvers inside the heat exchanger compartments. Ensure the area is clean and free of dirt and debris.

BEFORE CALLING YOUR SERVICER

- Check the thermostat to confirm that it is properly set.
- Check the disconnect switch near the unit to confirm that it is closed.
- Check the electrical panel for tripped circuit breakers or failed fuses. Reset the circuit breakers or replace fuses as necessary.
- Check for blockage of the indoor air inlets and outlets. Confirm that they are open and have not been blocked by objects (rugs, curtains or furniture).
- Check for obstructions on the unit. Confirm that it has not been covered on the sides or the top. Remove any obstruction that can be safely removed. If the unit is covered with dirt or debris, call a qualified servicer to clean it.
- Check the filter. If it is dirty, clean or replace it.

START-UP CHECKLIST

Residential Package - (Indoor Section)

Model Number _____
Serial Number _____

ELECTRICAL

Line Voltage (Measure L1 and L2 Voltage) L1 - L2 _____
Secondary Voltage (Measure Transformer Output Voltage) R - C _____
Blower Amps _____
Heat Strip 1 - Amps _____
Heat Strip 2 - Amps _____

BLOWER EXTERNAL STATIC PRESSURE

Return Air Static Pressure _____ IN. W.C.
Supply Air Static Pressure _____ IN. W.C.
Total External Static Pressure (Ignoring +/- from the reading above, add total here) _____ IN. W.C.

TEMPERATURES

Return Air Temperature (Dry bulb / Wet bulb) _____ DB °F _____ WB °F
Cooling Supply Air Temperature (Dry bulb / Wet bulb) _____ DB °F _____ WB °F
Heating Supply Air Temperature _____ DB °F
Temperature Rise _____ DB °F
Delta T (Difference between Supply and Return Temperatures) _____ DB °F

GAS PRESSURES

Gas Inlet Pressure _____ IN. W.C.
Gas Manifold Pressure (Low Fire) _____ IN. W.C.
Gas Manifold Pressure (High Fire) _____ IN. W.C.
Gas Type (NG) = Natural Gas / (LP) = Liquid Propane _____

Residential Package - (Outdoor Section)

ELECTRICAL

Supply Voltage (Measure L1 and L2 Voltage) L1 - L2 _____
Compressor Amps _____
Condenser Fan Amps _____

PRESSURES / TEMPERATURES

Suction Circuit (Pressure / Suction Line Temperature) PSIG _____ TEMP _____ °F
Liquid Circuit (Pressure / Liquid Temperature) PSIG _____ TEMP _____ °F
Outdoor Air Temperature (Dry bulb / Wet bulb) _____ DB °F _____ WB °F

SUPERHEAT / SUBCOOLING

SH _____ SC _____

Additional Checks

Check wire routings for any rubbing _____
Check product for proper draining _____
Check for kinked pressure switch tubing. _____
Check flue elbow for alignment and clamp tightness. _____
Check screw tightness on blower wheel. _____
Check factory wiring and wire connections. _____
Check screw tightness on Outdoor Motor and Blade _____
Check product for proper clearances as noted by installtion instructions _____

°F to °C formula: (°F - 32) divided by 1.8 = °C °C to °F formula: (°C multiplied by 1.8) + 32 = °F

CUSTOMER FEEDBACK

Daikin Comfort Technologies is very interested in all product comments.

Please fill out the feedback form on the following link:

<https://daikincomfort.com/contact-us>

You can also scan the QR code on the right to be directed to the feedback page.



PRODUCT REGISTRATION

Thank you for your recent purchase. Though not required to get the protection of the standard warranty, registering your product is a relatively short process, and entitles you to additional warranty protection, except that failure by California and Quebec residents to register their product does not diminish their warranty rights. The duration of warranty coverages in Texas and Florida differs in some cases.

For Product Registration, please register by following this link:

<https://daikincomfort.com/owner-support/product-registration>

You can also scan the QR code on the right to be directed to the Product Registration page.



Our continuing commitment to quality products may mean a change in specifications without notice.

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