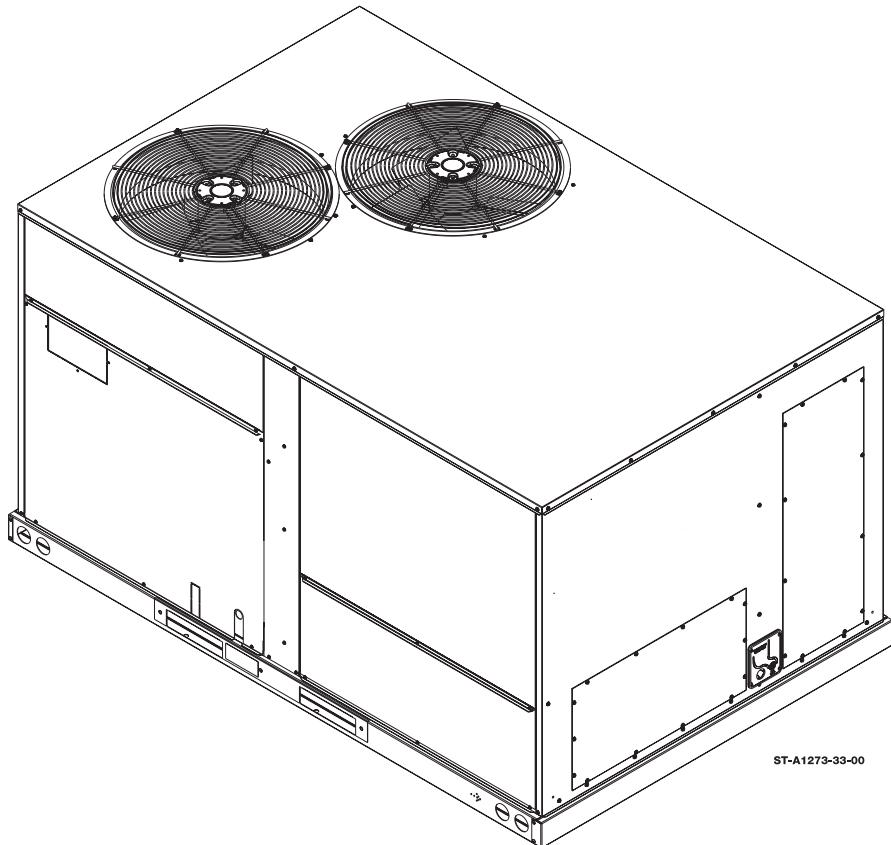


INSTALLATION INSTRUCTIONS

PACKAGE HEAT PUMPS FEATURING INDUSTRY STANDARD R410 REFRIGERANT RHPD SERIES 7.5, 8.5 & 10 TON [26.4, 29.9 & 35.2 kW] 60 Hz MODELS



Recognize this symbol as an indication of Important Safety Information!

DO NOT DESTROY
PLEASE READ CAREFULLY AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

WARNING

THESE INSTRUCTIONS ARE INTENDED AS AN AID TO QUALIFIED, LICENSED SERVICE PERSONNEL FOR PROPER INSTALLATION, ADJUSTMENT AND OPERATION OF THIS UNIT. READ THESE INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING INSTALLATION OR OPERATION. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN IMPROPER INSTALLATION, ADJUSTMENT, SERVICE OR MAINTENANCE POSSIBLY RESULTING IN FIRE, ELECTRICAL SHOCK, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



[] Designates metric conversions

92-106169-01-04

TABLE OF CONTENTS

I. Safety Information	3
II. Introduction	4
III. Checking Product Received	4
IV. Equipment Protection	4
V. Specifications.	4
A. General	4
B. Major Components	5
C. R-410A Refrigerant	5
Unit Dimensions	6-7
General Data	8-28
Electrical Data Tables	29-37
VI. Installation	38
A. General	38
1. Pre-Installation Check Points	38
2. Location	38
B. Outside Slab Installation	38
C. Clearances	38
D. Rooftop Installation	39
VII. Ductwork	40
VIII. Filters	40
IX. Conversion Procedure	40
X. Condensate Drain	40
XI. Condensate Drain, Outdoor Coil	41
XII. Electrical Wiring.	41
A. Power Wiring	41
RXJJ-Series Heater Kit Installation Instructions	42-47
B. Control Wiring	48
C. Internal Wiring	48
D. Grounding	48
E. Thermostat	48
XIII. Indoor Air Flow Data	48
XIV. Crankcase Heat.	49
XV. Pre-Start Check	49
XVI. Startup	49
XVII. Operation.	49
Cooling Mode	49
Heating Mode	49
XVIII. Auxiliary Heat	49
XIX. Demand Defrost Control	50-51
XX. Airflow Data Tables	52-57
Heater Kit Characteristics	58-67
Troubleshooting Chart	68
Wiring Diagrams	69-80
Charge Charts	81-83

NOTICE

BREAK-IN PERIOD

PRIOR TO AGENCY TESTING, RUN THE COMPRESSOR FOR 16 HOURS AT 115°F OUTDOOR AMBIENT TEMPERATURE AND 80° DRY BULB/75° WET BULB INDOOR AMBIENT TEMPERATURE.

NOTICE

EFFICIENCY TESTING NOTICE

FOR PURPOSES OF VERIFYING OR TESTING EFFICIENCY RATINGS, THE TEST PROCEDURE IN TITLE 10 PART 431 APPENDIX A TO SUBPART F (UNIFORM TEST METHOD FOR MEASURING THE ENERGY CONSUMPTION OF SMALL, LARGE, AND VERY LARGE COMMERCIAL PACKAGE AIR CONDITIONING AND HEATING EQUIPMENT), AND THE CLARIFYING PROVISIONS PROVIDED IN THE AHRI OPERATIONS MANUALS FOR UNITARY LARGE EQUIPMENT 340/360, 365 THAT WERE APPLICABLE AT THE DATE OF MANUFACTURE SHOULD BE USED FOR TEST SET UP AND PERFORMANCE.

I. SAFETY INFORMATION

WARNING

THE MANUFACTURER'S WARRANTY DOES NOT COVER ANY DAMAGE OR DEFECT TO THE AIR CONDITIONER CAUSED BY THE ATTACHMENT OR USE OF ANY COMPONENTS, ACCESSORIES OR DEVICES (OTHER THAN THOSE AUTHORIZED BY THE MANUFACTURER) INTO, ONTO OR IN CONJUNCTION WITH THE AIR CONDITIONER. YOU SHOULD BE AWARE THAT THE USE OF UNAUTHORIZED COMPONENTS, ACCESSORIES OR DEVICES MAY ADVERSELY AFFECT THE OPERATION OF THE AIR CONDITIONER AND MAY ALSO ENDANGER LIFE AND PROPERTY. THE MANUFACTURER DISCLAIMS ANY RESPONSIBILITY FOR SUCH LOSS OR INJURY RESULTING FROM THE USE OF SUCH UNAUTHORIZED COMPONENTS, ACCESSORIES OR DEVICES.

WARNING

DISCONNECT ALL POWER TO THE UNIT BEFORE STARTING MAINTENANCE. FAILURE TO DO SO CAN RESULT IN SEVERE ELECTRICAL SHOCK OR DEATH.

CAUTION

R-410A systems operate at higher pressures than R-22 systems. Do not use R-22 service equipment or components on R-410A equipment.

WARNING

DO NOT, UNDER ANY CIRCUMSTANCES, CONNECT RETURN DUCTWORK TO ANY OTHER HEAT PRODUCING DEVICE SUCH AS A FIREPLACE INSERT, STOVE, ETC. UNAUTHORIZED USE OF SUCH DEVICES MAY RESULT IN FIRE, CARBON MONOXIDE POISONING, EXPLOSION, PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

WARNING

THE UNIT MUST BE PERMANENTLY GROUNDED. A GROUNDING LUG IS PROVIDED IN THE ELECTRIC HEAT ACCESS AREA FOR A GROUND WIRE. FAILURE TO GROUND THIS UNIT CAN RESULT IN FIRE OR ELECTRICAL SHOCK CAUSING PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

WARNING

ONLY ELECTRIC HEATER KITS SUPPLIED BY THIS MANUFACTURER AS DESCRIBED IN THIS PUBLICATION HAVE BEEN DESIGNED, TESTED, AND EVALUATED FOR USE WITH THIS UNIT. USE OF ANY OTHER MANUFACTURED ELECTRIC HEATERS INSTALLED WITHIN THIS UNIT MAY CAUSE HAZARDOUS CONDITIONS RESULTING IN PROPERTY DAMAGE, FIRE, BODILY INJURY OR DEATH.

II. INTRODUCTION

⚠ WARNING

THE MANUFACTURER'S WARRANTY DOES NOT COVER ANY DAMAGE OR DEFECT TO THE HEAT PUMP CAUSED BY THE ATTACHMENT OR USE OF ANY COMPONENTS, ACCESSORIES OR DEVICES (OTHER THAN THOSE AUTHORIZED BY THE MANUFACTURER) INTO, ONTO OR IN CONJUNCTION WITH THE HEAT PUMP. YOU SHOULD BE AWARE THAT THE USE OF UNAUTHORIZED COMPONENTS, ACCESSORIES OR DEVICES MAY ADVERSELY AFFECT THE OPERATION OF THE HEAT PUMP AND MAY ALSO ENDANGER LIFE AND PROPERTY. THE MANUFACTURER DISCLAIMS ANY RESPONSIBILITY FOR SUCH LOSS OR INJURY RESULTING FROM THE USE OF SUCH UNAUTHORIZED COMPONENTS, ACCESSORIES OR DEVICES.

This booklet contains the installation and operating instructions for your package heat pump. There are a few precautions that should be taken to derive maximum satisfaction from it. Improper installation can result in unsatisfactory operation or dangerous conditions.

Read this booklet and any instructions packaged with separate equipment required to make up the system prior to installation. Give this booklet to the owner and explain its provisions. The owner should retain this booklet for future reference.

III. CHECKING PRODUCT RECEIVED

Upon receiving the unit, inspect it for any damage from shipment. Claims for damage, either shipping or concealed, should be filed immediately with the shipping company. Check the unit model number, heating size, electrical characteristics, and accessories to determine if they are correct.

IV. EQUIPMENT PROTECTION FROM THE ENVIRONMENT

The metal parts of this unit may be subject to rust or deterioration in adverse environmental conditions. This oxidation could shorten the equipment's useful life. Salt spray, fog or mist in seacoast areas, sulphur or chlorine from lawn watering systems, and various chemical contaminants from industries such as paper mills and petroleum refineries are especially corrosive.

If the unit is to be installed in an area where contaminants are likely to be a problem, special attention should be given to the equipment location and exposure.

1. Avoid having lawn sprinkler heads spray direction on the unit cabinet.
2. In coastal areas, locate the unit on the side of the building away from the waterfront.
3. Shielding provided by a fence or shrubs may give some protection.

Regular maintenance will reduce the buildup of contaminants and help to protect the unit's finish.

⚠ WARNING

DISCONNECT ALL POWER TO THE UNIT BEFORE STARTING MAINTENANCE. FAILURE TO DO SO CAN RESULT IN SEVERE ELECTRICAL SHOCK OR DEATH.

1. Frequent washing of the cabinet, fan blade and coil with fresh water will remove most of the salt or other contaminants that build up on the unit.
2. Regular cleaning and waxing of the cabinet with a good automobile polish will provide some protection.
3. A good liquid cleaner may be used several times a year to remove matter that will not wash off with water.

Several different types of protective coatings are offered in some areas. These coatings may provide some benefit, but the effectiveness of such coating materials cannot be verified by the equipment manufacturer.

The best protection is frequent cleaning, maintenance and minimal exposure to contaminants.

V. SPECIFICATIONS

A. GENERAL

The Packaged Heat Pump is available without auxiliary heat or with 15, 20, 30 or 40 kW electric heat. Cooling and heating capacities of 7½, and 10 nominal tons are available. Units are convertible from horizontal supply and return to bottom supply and return by relocation of supply and return air access panels. See cover installation detail.

The units are weatherized for mounting outside of the building.

The information on the rating plate is in compliance with the FTC and DOE rating for single phase units. The following information is for three phase units which **are not** covered under the DOE certification program.

1. The efficiency rating of this unit is a product thermal efficiency rating determined under continuous operating conditions independent of any installed system.

B. MAJOR COMPONENTS

The unit includes a hermetically-sealed refrigerating system (consisting of a compressor, condenser coil, evaporator coil biflow thermal expansion valve, reversing valve), a circulation air blower, a condenser fan, and all necessary internal electrical wiring. The cooling system of these units is factory-evacuated, charged and performance tested. Refrigerant amount and type are indicated on rating plate.

C. R-410A REFRIGERANT

All units are factory charged with R-410A refrigerant.

1. Specification of R-410A:

Application: R-410A is not a drop-in replacement for R-22; equipment designs must accommodate its higher pressures. It cannot be retrofitted into R-22 units.

Pressure: The pressure of R-410A is approximately 60% (1.6 times) greater than R-22. Recovery and recycle equipment, pumps, hoses and the like need to have design pressure ratings appropriate for R-410A. Manifold sets need to range up to 800 psig high-side and 250 psig low-side with a 550 psig low-side retard. Hoses need to have a service pressure rating of 800 psig. Recovery cylinders need to have a 400 psig service pressure rating. DOT 4BA400 or DOT BW400.

Combustibility: At pressures above 1 atmosphere, mixture of R-410A and air can become combustible. R-410A and air should never be mixed in tanks or supply lines, or be allowed to accumulate in storage tanks. Leak checking should never be done with a mixture of R-410A and air. Leak checking can be performed safely with nitrogen or a mixture of R-410A and nitrogen.

2. Quick Reference Guide For R-410A

- R-410A refrigerant operates at approximately 60% higher pressure (1.6 times) than R-22. Ensure that servicing equipment is designed to operate with R-410A.
- R-410A refrigerant cylinders are pink.
- R-410A, as with other HFC's is only compatible with POE oils.
- Vacuum pumps will not remove moisture from POE oil.
- R-410A systems are to be charged with liquid refrigerants.

Prior to March 1999, R-410A refrigerant cylinders had a dip tube. These cylinders should be kept upright for equipment charging. Post March 1999 cylinders do not have a dip tube and should be inverted to ensure liquid charging of the equipment.

- Do not install a suction line filter drier in the liquid line.
- A liquid line filter drier is standard on every unit.
- Desiccant (drying agent) must be compatible for POE oils and R-410A.

3. Thermostatic Expansion Valve (TXV)

The Bi-Flow TXV is specifically designed to operate with R-410A heat pumps. **Replacement of the TXV should only be made with the factory specified bi-flow R-410A valve. Do not use an R-22 TXV.**

4. Tools Required For Installing & Servicing R-410A Models

Manifold Sets:

- Up to 800 PSIG High side
- Up to 250 PSIG Low Side
- 550 PSIG Low Side Retard

Manifold Hoses:

- Service Pressure Rating of 800 PSIG

Recovery Cylinders:

- 400 PSIG Pressure Rating
- Dept. of Transportation 4BA400 or BW400

▲ CAUTION

R-410A systems operate at higher pressures than R-22 systems. Do not use R-22 service equipment or components on R-410A equipment.

FIGURE 1
UNIT DIMENSIONS AND ACCESS LOCATIONS

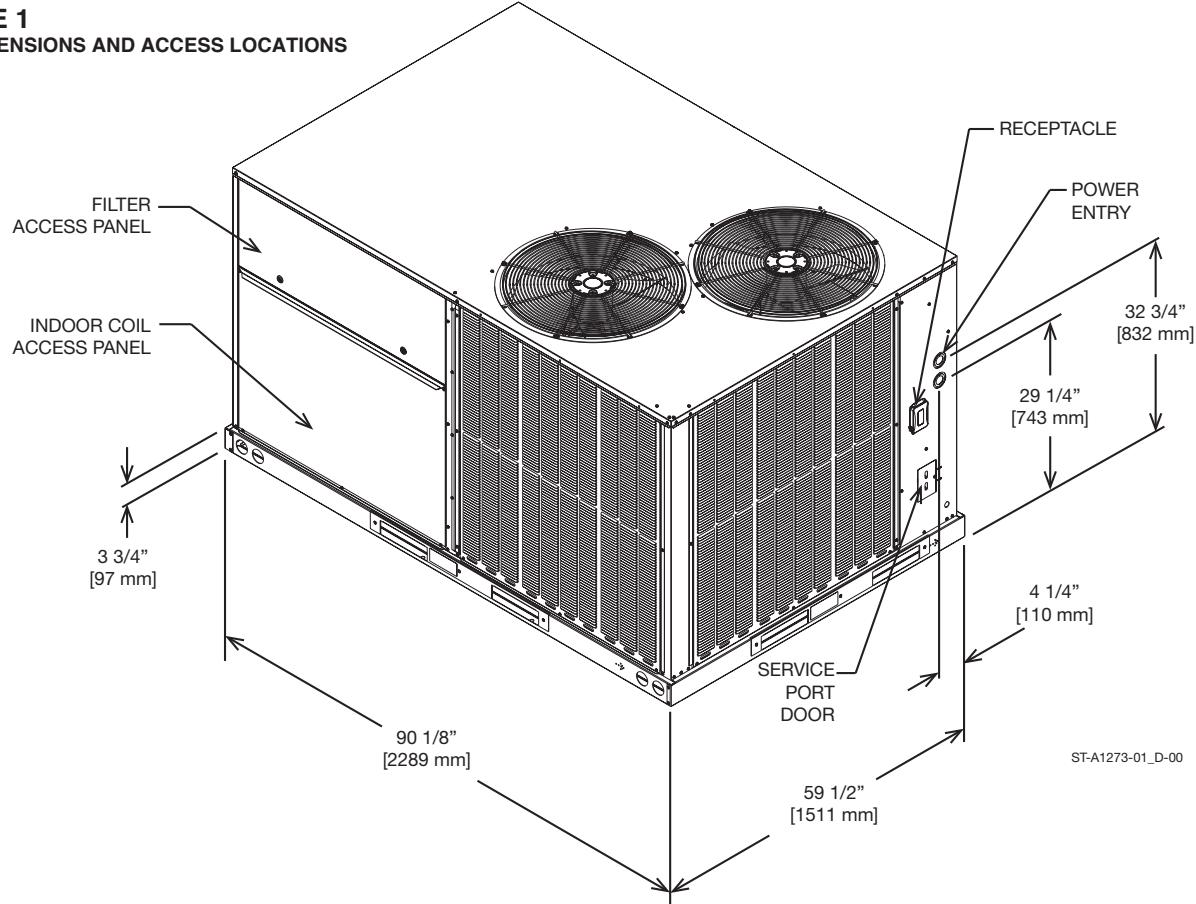


FIGURE 2
UNIT DIMENSIONS

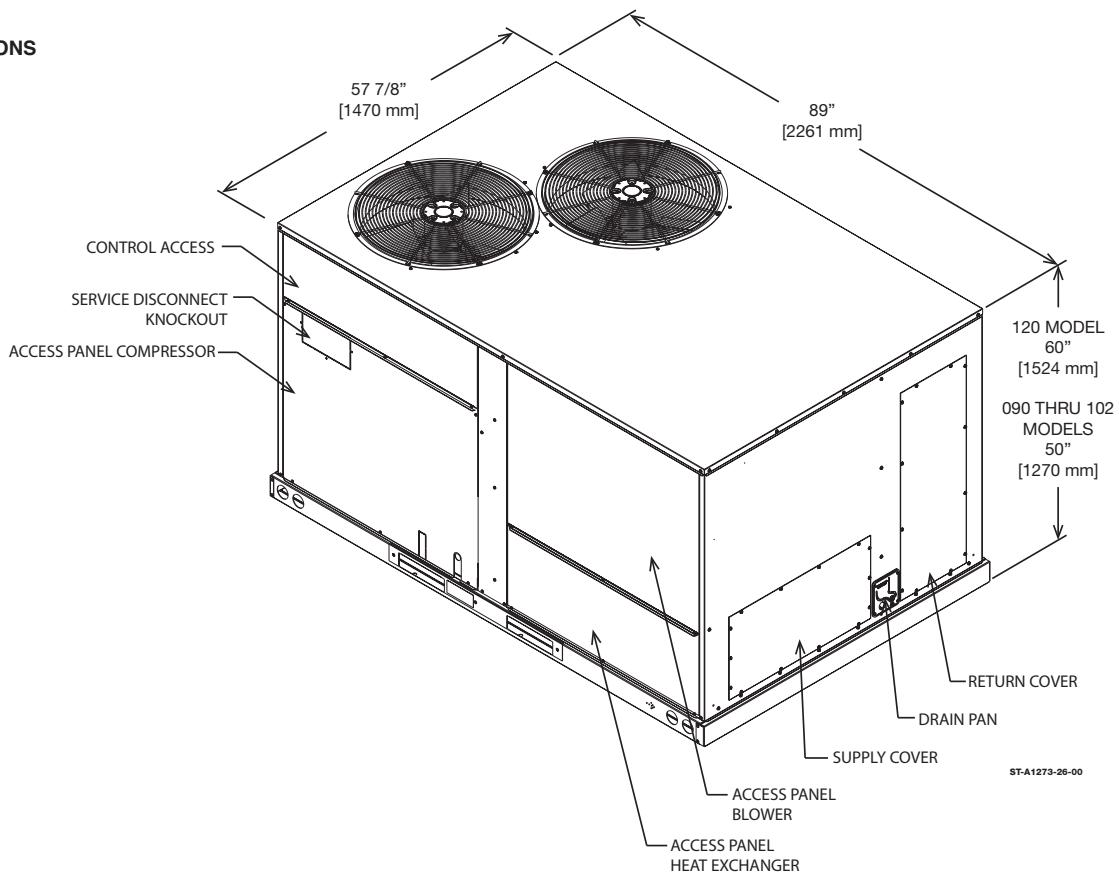


FIGURE 3
BOTTOM VIEW

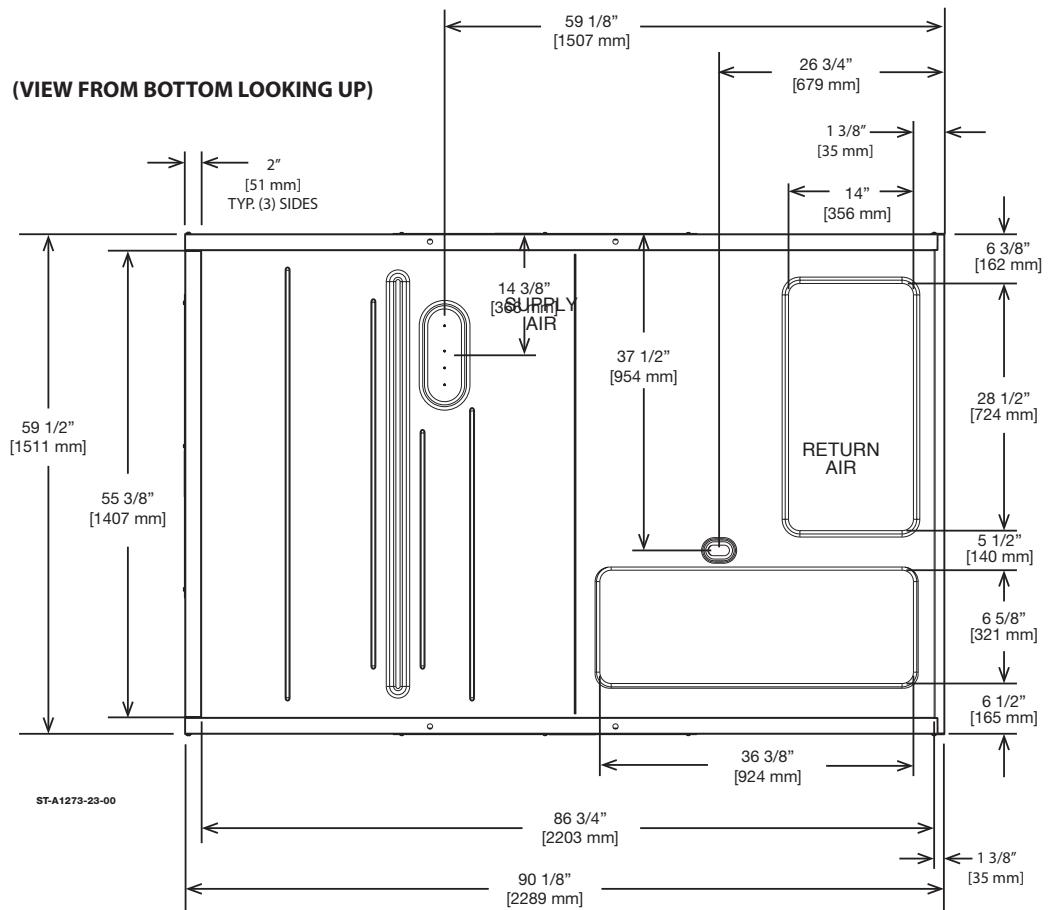
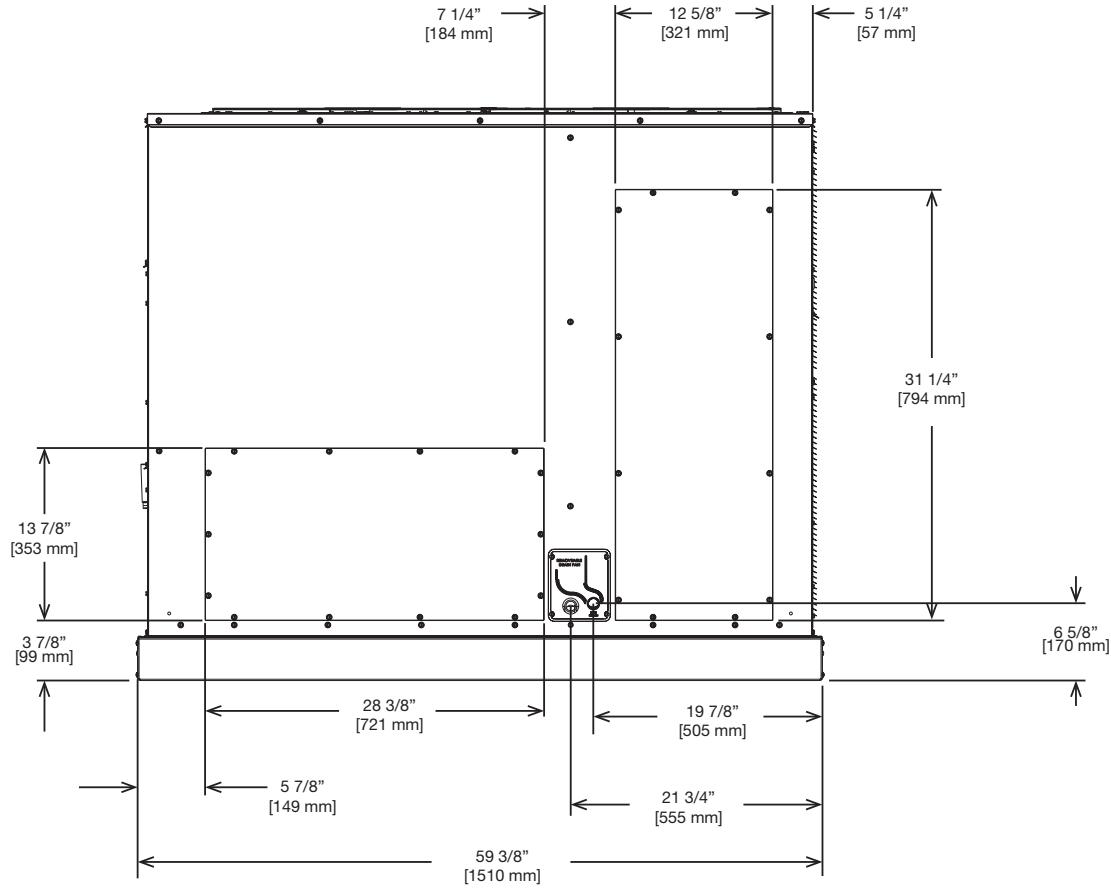


FIGURE 4
REAR VIEW



GENERAL DATA

Model RHPDZS Series	090ACA	090ACB	090ACC	090ACF
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.26	6.44/2.26	6.44/2.26	6.44/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPCm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPCm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	179 [5075]	179 [5075]	179 [5075]	179 [5075]
Weights				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	814 [369]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	090ACG	090ACH	090ADA	090ADB
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.26	6.44/2.26	6.44/2.26	6.44/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	179 [5075]	179 [5075]	179 [5075]	179 [5075]
Weights				
Net Weight lbs. [kg]	785 [356]	786 [357]	775 [352]	785 [356]
Ship Weight lbs. [kg]	824 [374]	825 [374]	814 [369]	824 [374]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	090ADC	090ADF	090ADG	090ADH
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.26	6.44/2.26	6.44/2.26	6.44/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPCm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPCm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	179 [5075]	179 [5075]	179 [5075]	179 [5075]
Weights				
Net Weight lbs. [kg]	786 [357]	775 [352]	785 [356]	786 [357]
Ship Weight lbs. [kg]	825 [374]	814 [369]	824 [374]	825 [374]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	090AYA	090AYB	090AYC	090AYF
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.26	6.44/2.26	6.44/2.26	6.44/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	179 [5075]	179 [5075]	179 [5075]	179 [5075]
Weights				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	814 [369]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	090AYG	090AYH	102ACA	102ACB
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	100,000 [29.31]	100,000 [29.31]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3400/3350 [1604/1581]	3400/3350 [1604/1581]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	97,000 [28.43]	97,000 [28.43]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	26,000 [7.62]	26,000 [7.62]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	8.47	8.47
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	84,000 [24.61]	84,000 [24.61]	97,000 [28.43]	97,000 [28.43]
System Power KW / COP	6.84/3.3	6.84/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	58,000 [17.00]	58,000 [17.00]
System Power KW / COP	6.44/2.26	6.44/2.26	7.54/2.26	7.54/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPCm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPCm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	179 [5075]	179 [5075]	197 [5585]	197 [5585]
Weights				
Net Weight lbs. [kg]	785 [356]	786 [357]	811 [368]	821 [372]
Ship Weight lbs. [kg]	824 [374]	825 [374]	850 [386]	860 [390]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	102ACC	102ACF	102ACG	102ACH
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]
AHRI Net Cooling Capacity Btu [kW]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]
System Power KW / COP	7.54/2.26	7.54/2.26	7.54/2.26	7.54/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	197 [5585]	197 [5585]	197 [5585]	197 [5585]
Weights				
Net Weight lbs. [kg]	822 [373]	811 [368]	821 [372]	822 [373]
Ship Weight lbs. [kg]	861 [391]	850 [386]	860 [390]	861 [391]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	102ADA	102ADB	102ADC	102ADF
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]
AHRI Net Cooling Capacity Btu [kW]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]
System Power KW / COP	7.54/2.26	7.54/2.26	7.54/2.26	7.54/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPCm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPCm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	197 [5585]	197 [5585]	197 [5585]	197 [5585]
Weights				
Net Weight lbs. [kg]	811 [368]	821 [372]	822 [373]	811 [368]
Ship Weight lbs. [kg]	850 [386]	860 [390]	861 [391]	850 [386]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	102ADG	102ADH	102AYA	102AYB
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]
AHRI Net Cooling Capacity Btu [kW]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]
System Power KW / COP	7.54/2.26	7.54/2.26	7.54/2.26	7.54/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	197 [5585]	197 [5585]	197 [5585]	197 [5585]
Weights				
Net Weight lbs. [kg]	821 [372]	822 [373]	811 [368]	821 [372]
Ship Weight lbs. [kg]	860 [390]	861 [391]	850 [386]	860 [390]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	102AYC	102AYF	102AYG	102AYH
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]
AHRI Net Cooling Capacity Btu [kW]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]
System Power KW / COP	7.54/2.26	7.54/2.26	7.54/2.26	7.54/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	197 [5585]	197 [5585]	197 [5585]	197 [5585]
Weights				
Net Weight lbs. [kg]	822 [373]	811 [368]	821 [372]	822 [373]
Ship Weight lbs. [kg]	861 [391]	850 [386]	860 [390]	861 [391]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	120ACA	120ACB	120ACC	120ACF
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	8.3/2.26	8.3/2.26	8.3/2.26	8.3/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	214.4 [6078]	214.4 [6078]	214.4 [6078]	214.4 [6078]
Weights				
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]	863 [391]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]	902 [409]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	120ACG	120ACH	120ADA	120ADB
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	8.3/2.26	8.3/2.26	8.3/2.26	8.3/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	214.4 [6078]	214.4 [6078]	214.4 [6078]	214.4 [6078]
Weights				
Net Weight lbs. [kg]	873 [396]	874 [396]	863 [391]	873 [396]
Ship Weight lbs. [kg]	912 [414]	913 [414]	902 [409]	912 [414]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	120ADC	120ADF	120ADG	120ADH
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	8.3/2.26	8.3/2.26	8.3/2.26	8.3/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	0.26 [6.6]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	214.4 [6078]	214.4 [6078]	214.4 [6078]	214.4 [6078]
Weights				
Net Weight lbs. [kg]	874 [396]	863 [391]	873 [396]	874 [396]
Ship Weight lbs. [kg]	913 [414]	902 [409]	912 [414]	913 [414]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	120AYA	120AYB	120AYC	120AYF
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER3	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	8.3/2.26	8.3/2.26	8.3/2.26	8.3/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	214.4 [6078]	214.4 [6078]	214.4 [6078]	214.4 [6078]
Weights				
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]	863 [391]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]	902 [409]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZS Series	120AYG	120AYH
Cooling Performance1		Continued ->
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]
EER/SEER2	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]
IEER3	12.2	12.2
Net System Power kW	10.13	10.13
Heating Performance (Heat Pumps)		
High Temp. Btuh [kW] Rating	112,000 [32.82]	112,000 [32.82]
System Power KW / COP	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	8.3/2.26	8.3/2.26
Compressor		
No./Type	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88
Outdoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single
No. Motors	1	1
Motor HP	3	3
Motor RPM	1725	1725
Motor Frame Size	56	56
Filter - Type	Disposable	Disposable
Furnished	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	214.4 [6078]	214.4 [6078]
Weights		
Net Weight lbs. [kg]	873 [396]	874 [396]
Ship Weight lbs. [kg]	912 [414]	913 [414]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZT Series	090ACF	090ACG	090ACH	090ADF
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER3	14.1	14.1	14.1	14.1
Net System Power kW	7.55	7.55	7.55	7.55
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
System Power KW / COP	6.84/3.4	6.84/3.4	6.84/3.4	6.84/3.4
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.26	6.44/2.26	6.44/2.26	6.44/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Dual	Dual	Dual	Dual
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	179 [5075]	179 [5075]	179 [5075]	179 [5075]
Weights				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	814 [369]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZT Series	090ADG	090ADH	090AYF	090AYG
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER3	14.1	14.1	14.1	14.1
Net System Power kW	7.55	7.55	7.55	7.55
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]	84,000 [24.61]
System Power KW / COP	6.84/3.4	6.84/3.4	6.84/3.4	6.84/3.4
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.26	6.44/2.26	6.44/2.26	6.44/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Dual	Dual	Dual	Dual
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	179 [5075]	179 [5075]	179 [5075]	179 [5075]
Weights				
Net Weight lbs. [kg]	785 [356]	786 [357]	775 [352]	785 [356]
Ship Weight lbs. [kg]	824 [374]	825 [374]	814 [369]	824 [374]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZT Series	090AYH	102ACF	102ACG	102ACH
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	23,200 [6.8]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]
IEER3	14.1	14.1	14.1	14.1
Net System Power kW	7.55	8.47	8.47	8.47
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	84,000 [24.61]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
System Power KW / COP	6.84/3.4	7.99/3.4	7.99/3.4	7.99/3.4
Low Temp. Btuh [kW] Rating	48,000 [14.06]	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]
System Power KW / COP	6.44/2.26	7.54/2.26	7.54/2.26	7.54/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Dual	Dual	Dual	Dual
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	179 [5075]	197 [5585]	197 [5585]	197 [5585]
Weights				
Net Weight lbs. [kg]	786 [357]	811 [368]	821 [372]	822 [373]
Ship Weight lbs. [kg]	825 [374]	850 [386]	860 [390]	861 [391]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZT Series	102ADF	102ADG	102ADH	102AYF
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]	100,000 [29.31]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	3400/3350 [1604/1581]
AHRI Net Cooling Capacity Btu [kW]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]	26,000 [7.62]
IEER3	14.1	14.1	14.1	14.1
Net System Power kW	8.47	8.47	8.47	8.47
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]	97,000 [28.43]
System Power KW / COP	7.99/3.4	7.99/3.4	7.99/3.4	7.99/3.4
Low Temp. Btuh [kW] Rating	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]	58,000 [17.00]
System Power KW / COP	7.54/2.26	7.54/2.26	7.54/2.26	7.54/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Dual	Dual	Dual	Dual
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	197 [5585]	197 [5585]	197 [5585]	197 [5585]
Weights				
Net Weight lbs. [kg]	811 [368]	821 [372]	822 [373]	811 [368]
Ship Weight lbs. [kg]	850 [386]	860 [390]	861 [391]	850 [386]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZT Series	102AYG	102AYH	120ACF	120ACG
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	100,000 [29.31]	100,000 [29.31]	119,000 [34.87]	119,000 [34.87]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3350 [1604/1581]	3400/3350 [1604/1581]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	97,000 [28.43]	97,000 [28.43]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	26,000 [7.62]	26,000 [7.62]	31,200 [9.14]	31,200 [9.14]
IEER3	14.1	14.1	14.1	14.1
Net System Power kW	8.47	8.47	10.13	10.13
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	97,000 [28.43]	97,000 [28.43]	112,000 [32.82]	112,000 [32.82]
System Power KW / COP	7.99/3.4	7.99/3.4	9.03/3.4	9.03/3.4
Low Temp. Btuh [kW] Rating	58,000 [17.00]	58,000 [17.00]	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	7.54/2.26	7.54/2.26	8.3/2.26	8.3/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Dual	Dual	Dual	Dual
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	197 [5585]	197 [5585]	214.4 [6078]	214.4 [6078]
Weights				
Net Weight lbs. [kg]	821 [372]	822 [373]	863 [391]	873 [396]
Ship Weight lbs. [kg]	860 [390]	861 [391]	902 [409]	912 [414]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZT Series	120ACH	120ADF	120ADG	120ADH
Cooling Performance1	Continued ->			
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER2	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER3	14.1	14.1	14.1	14.1
Net System Power kW	10.13	10.13	10.13	10.13
Heating Performance (Heat Pumps)				
High Temp. Btuh [kW] Rating	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]
System Power KW / COP	9.03/3.4	9.03/3.4	9.03/3.4	9.03/3.4
Low Temp. Btuh [kW] Rating	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	8.3/2.26	8.3/2.26	8.3/2.26	8.3/2.26
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Dual	Dual	Dual	Dual
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	214.4 [6078]	214.4 [6078]	214.4 [6078]	214.4 [6078]
Weights				
Net Weight lbs. [kg]	874 [396]	863 [391]	873 [396]	874 [396]
Ship Weight lbs. [kg]	913 [414]	902 [409]	912 [414]	913 [414]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

GENERAL DATA

Model RHPDZT Series	120AYF	120AYG	120AYH
Cooling Performance1			
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER2	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER3	14.1	14.1	14.1
Net System Power kW	10.13	10.13	10.13
Heating Performance (Heat Pumps)			
High Temp. Btuh [kW] Rating	112,000 [32.82]	112,000 [32.82]	112,000 [32.82]
System Power KW / COP	9.03/3.4	9.03/3.4	9.03/3.4
Low Temp. Btuh [kW] Rating	68,000 [19.92]	68,000 [19.92]	68,000 [19.92]
System Power KW / COP	8.3/2.26	8.3/2.26	8.3/2.26
Compressor			
No./Type	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)5	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Indoor Coil - Fin Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Dual	Dual	Dual
No. Motors	1	1	1
Motor HP	2	3	3
Motor RPM	1725	1725	1725
Motor Frame Size	56	56	56
Filter - Type	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
Refrigerant Charge Oz. [g]	214.4 [6078]	214.4 [6078]	214.4 [6078]
Weights			
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Integrated Part Load Value is rated in accordance with AHRI Standard 210/240 or 360. Units are rated at 80° F ambient, 80° F entering dry bulb, and 67° F entering wet bulb at AHRI rated cfm.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZS SERIES										
		090ACA	090ACB	090ACC	090ACF	090ACG	090ACH	090ADA	090ADB	090ADC
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	44	46	46	44	46	46	19	20	20
	Minimum Overcurrent Protection Device Size	50	60	60	50	60	60	25	25	25
	Maximum Overcurrent Protection Device Size	60	70	70	60	70	70	25	25	25
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	200/230	200/230	200/230	200/230	200/230	200/230	460	460	460
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7	7	7	7	7	7
	Amps (RLA), Comp. 1	25.3	25.3	25.3	25.3	25.3	25.3	9.6	9.6	9.6
	Amps (LRA), Comp. 1	184	184	184	184	184	184	84	84	84
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.5	2.5	2.5	2.5	2.5	2.5	1.5	1.5	1.5
	Amps (LRA, each)	5.6	5.6	5.6	5.6	5.6	5.6	3.1	3.1	3.1
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3	3	3	3
	HP	2	3	3	2	3	3	2	3	3
	Amps (FLA, each)	6.6	9.1	9.1	6.6	9.1	9.1	3.2	4.6	4.6
	Amps (LRA, each)	47	74.5	74.5	47	74.5	74.5	24	38.1	38.1

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZS SERIES

		090ADF	090ADG	090ADH	090AYA	090AYB	090AYC	090AYF	090AYG	090AYH
Unit Information	Unit Operating Voltage Range	414-506	414-506	414-506	517-632	517-632	517-632	517-632	517-632	517-632
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	19	20	20	14	15	15	14	15	15
	Minimum Overcurrent Protection Device Size	25	25	25	20	20	20	20	20	20
	Maximum Overcurrent Protection Device Size	25	25	25	20	20	20	20	20	20
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7	7	7	7	7	7
	Amps (RLA), Comp. 1	9.6	9.6	9.6	7.1	7.1	7.1	7.1	7.1	7.1
	Amps (LRA), Comp. 1	84	84	84	60	60	60	60	60	60
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	460	460	460	575	575	575	575	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	1.5	1.5	1.5	1.1	1.1	1.1	1.1	1.1	1.1
	Amps (LRA, each)	3.1	3.1	3.1	2.5	2.5	2.5	2.5	2.5	2.5
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	2	3	3	2	3	3	2	3	3
	Amps (FLA, each)	3.2	4.6	4.6	2.5	3.5	3.5	2.5	3.5	3.5
	Amps (LRA, each)	24	38.1	38.1	19	30	30	19	30	30

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZS SERIES											
		102ACA	102ACB	102ACC	102ACF	102ACG	102ACH	102ADA	102ADB	102ADC	
Unit Information		Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253	414-506	414-506	414-506
		Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
		Phase	3	3	3	3	3	3	3	3	3
		Hz	60	60	60	60	60	60	60	60	60
		Minimum Circuit Ampacity	48	50	53	48	50	53	23	24	25
		Minimum Overcurrent Protection Device Size	60	60	70	60	60	70	30	30	30
		Maximum Overcurrent Protection Device Size	70	70	80	70	70	80	30	35	35
Compressor Motor		No.	1	1	1	1	1	1	1	1	1
		Volts	200/230	200/230	200/230	200/230	200/230	200/230	460	460	460
		Phase	3	3	3	3	3	3	3	3	3
		RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
		HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
		Amps (RLA), Comp. 1	28.8	28.8	28.8	28.8	28.8	28.8	12.5	12.5	12.5
		Amps (LRA), Comp. 1	191	191	191	191	191	191	100	100	100
		HP, Compressor 2									
		Amps (RLA), Comp. 2									
		Amps (LRA), Comp. 2									
Condenser Motor		No.	2	2	2	2	2	2	2	2	2
		Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
		Phase	1	1	1	1	1	1	1	1	1
		HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
		Amps (FLA, each)	2.5	2.5	2.5	2.5	2.5	2.5	1.5	1.5	1.5
		Amps (LRA, each)	5.6	5.6	5.6	5.6	5.6	5.6	3.1	3.1	3.1
Evaporator Fan		No.	1	1	1	1	1	1	1	1	1
		Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
		Phase	3	3	3	3	3	3	3	3	3
		HP	2	3	3	2	3	3	2	3	3
		Amps (FLA, each)	7	8.9	12	7	8.9	12	3.5	4.4	6
		Amps (LRA, each)	47	74.5	74.5	47	74.5	74.5	24	38.1	38.1

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZS SERIES

		102ADF	102ADG	102ADH	102AYA	102AYB	102AYC	102AYF	102AYG	102AYH
Unit Information	Unit Operating Voltage Range	414-506	414-506	414-506	517-632	517-632	517-632	517-632	517-632	517-632
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	23	24	25	17	18	18	17	18	18
	Minimum Overcurrent Protection Device Size	30	30	30	20	25	25	20	25	25
	Maximum Overcurrent Protection Device Size	30	35	35	25	25	25	25	25	25
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1	12.5	12.5	12.5	9.7	9.7	9.7	9.7	9.7	9.7
	Amps (LRA), Comp. 1	100	100	100	70	70	70	70	70	70
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	460	460	460	575	575	575	575	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	1.5	1.5	1.5	1.1	1.1	1.1	1.1	1.1	1.1
	Amps (LRA, each)	3.1	3.1	3.1	2.5	2.5	2.5	2.5	2.5	2.5
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	2	3	3	2	3	3	2	3	3
	Amps (FLA, each)	3.5	4.4	6	2.5	3.5	3.5	2.5	3.5	3.5
	Amps (LRA, each)	24	38.1	38.1	19	30	30	19	30	30

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZS SERIES											
		120ACA	120ACB	120ACC	120ACF	120ACG	120ACH	120ADA	120ADB	120ADC	
Unit Information		Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253	414-506	414-506	414-506
		Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
		Phase	3	3	3	3	3	3	3	3	
		Hz	60	60	60	60	60	60	60	60	
		Minimum Circuit Ampacity	54	57	58	54	57	58	26	27	28
		Minimum Overcurrent Protection Device Size	70	70	70	70	70	70	30	35	35
		Maximum Overcurrent Protection Device Size	80	80	90	80	80	90	40	40	40
Compressor Motor		No.	1	1	1	1	1	1	1	1	
		Volts	200/230	200/230	200/230	200/230	200/230	200/230	460	460	460
		Phase	3	3	3	3	3	3	3	3	
		RPM	3450	3450	3450	3450	3450	3450	3450	3450	
		HP, Compressor 1	10	10	10	10	10	10	10	10	
		Amps (RLA), Comp. 1	32.6	32.6	32.6	32.6	32.6	32.6	14.8	14.8	14.8
		Amps (LRA), Comp. 1	240	240	240	240	240	240	130	130	130
		HP, Compressor 2									
		Amps (RLA), Comp. 2									
		Amps (LRA), Comp. 2									
Condenser Motor		No.	2	2	2	2	2	2	2	2	
		Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
		Phase	1	1	1	1	1	1	1	1	
		HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	
		Amps (FLA, each)	2.5	2.5	2.5	2.5	2.5	2.5	1.5	1.5	1.5
		Amps (LRA, each)	5.6	5.6	5.6	5.6	5.6	5.6	3.1	3.1	3.1
Evaporator Fan		No.	1	1	1	1	1	1	1	1	
		Volts	208/230	208/230	208/230	208/230	208/230	208/230	460	460	460
		Phase	3	3	3	3	3	3	3	3	
		HP	2	3	3	2	3	3	3	3	
		Amps (FLA, each)	7.7	10.4	12	7.7	10.4	12	3.9	5.2	6
		Amps (LRA, each)	47	74.5	74.5	47	74.5	74.5	24	38.1	38.1

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZS SERIES

		120ADF	120ADG	120ADH	120AYA	120AYB	120AYC	120AYF	120AYG	120AYH
Unit Information	Unit Operating Voltage Range	414-506	414-506	414-506	517-632	517-632	517-632	517-632	517-632	517-632
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	26	27	28	19	20	20	19	20	20
	Minimum Overcurrent Protection Device Size	30	35	35	25	25	25	25	25	25
	Maximum Overcurrent Protection Device Size	40	40	40	25	30	30	25	30	30
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10	10	10	10
	Amps (RLA), Comp. 1	14.8	14.8	14.8	11.1	11.1	11.1	11.1	11.1	11.1
	Amps (LRA), Comp. 1	130	130	130	93.7	93.7	93.7	93.7	93.7	93.7
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	460	460	460	575	575	575	575	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	1.5	1.5	1.5	1.1	1.1	1.1	1.1	1.1	1.1
	Amps (LRA, each)	3.1	3.1	3.1	1.5	1.5	1.5	1.5	1.5	1.5
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	460	460	460	575	575	575	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	2	3	3	2	3	3	2	3	3
	Amps (FLA, each)	3.9	5.2	6	2.5	3.5	3.5	2.5	3.5	3.5
	Amps (LRA, each)	24	38.1	38.1	19	30	30	19	30	30

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZT SERIES											
		090ACF	090ACG	090ACH	090ADF	090ADG	090ADH	090AYF	090AYG	090AYH	
Unit Information		Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	517-632	517-632	517-632
		Volts	208/230	208/230	208/230	460	460	460	575	575	575
		Phase	3	3	3	3	3	3	3	3	3
		Hz	60	60	60	60	60	60	60	60	60
		Minimum Circuit Ampacity	44	46	46	19	20	20	14	15	15
		Minimum Overcurrent Protection Device Size	50	60	60	25	25	25	20	20	20
		Maximum Overcurrent Protection Device Size	60	70	70	25	25	25	20	20	20
Compressor Motor		No.	1	1	1	1	1	1	1	1	1
		Volts	200/230	200/230	200/230	460	460	460	575	575	575
		Phase	3	3	3	3	3	3	3	3	3
		RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
		HP, Compressor 1	7	7	7	7	7	7	7	7	7
		Amps (RLA), Comp. 1	25.3	25.3	25.3	9.6	9.6	9.6	7.1	7.1	7.1
		Amps (LRA), Comp. 1	184	184	184	84	84	84	60	60	60
		HP, Compressor 2									
		Amps (RLA), Comp. 2									
		Amps (LRA), Comp. 2									
Condenser Motor		No.	2	2	2	2	2	2	2	2	2
		Volts	208/230	208/230	208/230	460	460	460	575	575	575
		Phase	1	1	1	1	1	1	1	1	1
		HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
		Amps (FLA, each)	2.5	2.5	2.5	1.5	1.5	1.5	1.1	1.1	1.1
		Amps (LRA, each)	5.6	5.6	5.6	3.1	3.1	3.1	1.5	1.5	1.5
Evaporator Fan		No.	1	1	1	1	1	1	1	1	1
		Volts	208/230	208/230	208/230	460	460	460	575	575	575
		Phase	3	3	3	3	3	3	3	3	3
		HP	2	3	3	2	3	3	2	3	3
		Amps (FLA, each)	6.6	9.1	9.1	3.2	4.6	4.6	2.5	3.5	3.5
		Amps (LRA, each)	47	74.5	74.5	24	38.1	38.1	19	20	20

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZT SERIES											
		102ACF	102ACG	102ACH	102ADF	102ADG	102ADH	102AYF	102AYG	102AYH	
Unit Information	Unit Operating Voltage Range		187-253	187-253	187-253	414-506	414-506	414-506	517-632	517-632	517-632
	Volts		208/230	208/230	208/230	460	460	460	575	575	575
	Phase		3	3	3	3	3	3	3	3	3
	Hz		60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity		48	50	53	23	24	25	17	18	18
	Minimum Overcurrent Protection Device Size		60	60	70	30	30	30	20	25	25
	Maximum Overcurrent Protection Device Size		70	70	80	30	35	35	25	25	25
Compressor Motor	No.		1	1	1	1	1	1	1	1	1
	Volts		200/230	200/230	200/230	460	460	460	575	575	575
	Phase		3	3	3	3	3	3	3	3	3
	RPM		3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1		7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
	Amps (RLA), Comp. 1		28.8	28.8	28.8	12.5	12.5	12.5	9.7	9.7	9.7
	Amps (LRA), Comp. 1		191	191	191	100	100	100	70	70	70
	HP, Compressor 2										
	Amps (RLA), Comp. 2										
	Amps (LRA), Comp. 2										
Condenser Motor	No.		2	2	2	2	2	2	2	2	2
	Volts		208/230	208/230	208/230	460	460	460	575	575	575
	Phase		1	1	1	1	1	1	1	1	1
	HP		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)		2.5	2.5	2.5	1.5	1.5	1.5	1.1	1.1	1.1
	Amps (LRA, each)		5.6	5.6	5.6	3.1	3.1	3.1	1.5	1.5	1.5
Evaporator Fan	No.		1	1	1	1	1	1	1	1	1
	Volts		208/230	208/230	208/230	460	460	460	575	575	575
	Phase		3	3	3	3	3	3	3	3	3
	HP		2	3	3	2	3	3	2	3	3
	Amps (FLA, each)		7	8.9	12	3.5	4.4	6	2.5	3.5	3.5
	Amps (LRA, each)		47	74.5	74.5	24	38.1	38.1	19	20	20

ELECTRICAL DATA

ELECTRICAL DATA - RHPDZT SERIES										
		120ACF	120ACG	120ACH	120ADF	120ADG	120ADH	120AYF	120AYG	120AYH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	517-632	517-632	517-632
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	54	57	58	26	27	28	19	20	20
	Minimum Overcurrent Protection Device Size	70	70	70	30	35	35	25	25	25
	Maximum Overcurrent Protection Device Size	80	80	90	40	40	40	25	30	30
Compressor Motor	No.	1	1	1	1	1	1	1	1	1
	Volts	200/230	200/230	200/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10	10	10	10
	Amps (RLA), Comp. 1	32.6	32.6	32.6	14.8	14.8	14.8	11.1	11.1	11.1
	Amps (LRA), Comp. 1	240	240	240	130	130	130	93.7	93.7	93.7
	HP, Compressor 2									
	Amps (RLA), Comp. 2									
	Amps (LRA), Comp. 2									
Condenser Motor	No.	2	2	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	1	1	1	1	1	1	1	1	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Amps (FLA, each)	2.5	2.5	2.5	1.5	1.5	1.5	1.1	1.1	1.1
	Amps (LRA, each)	5.6	5.6	5.6	3.1	3.1	3.1	1.5	1.5	1.5
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	575	575	575
	Phase	3	3	3	3	3	3	3	3	3
	HP	2	3	3	2	3	3	2	3	3
	Amps (FLA, each)	7.7	10.4	12	3.9	5.2	6	2.5	3.5	3.5
	Amps (LRA, each)	47	74.5	74.5	24	38.1	38.1	19	20	20

VI. INSTALLATION

A. GENERAL

1. PRE-INSTALLATION CHECK-POINTS

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

- a. Structural strength of supporting members.
(rooftop installation)
- b. Clearances and provision for servicing.
- c. Power supply and wiring.
- d. Air duct connections.
- e. Drain facilities and connections.
- f. Location for minimum noise.

2. LOCATION

These units are designed for outdoor installations. They can be mounted on a slab or rooftop. They are not to be installed within any part of a structure such as an attic, crawl space, closet, or any other place where condenser air flow is restricted or other than outdoor ambient conditions prevail. Since the application of the units is of the outdoor type, it is important to consult your local code authorities at the time the first installation is made.

B. OUTSIDE SLAB INSTALLATION (Typical outdoor slab installations are shown in Figures 5 and 6.)

1. Select a location where external water drainage cannot collect around the unit.
2. Provide a level concrete slab extending 3" [76.2 mm] beyond all four sides of the unit. The slab should be sufficient above grade to prevent ground water from entering the unit. **IMPORTANT:** To prevent transmission of noise or vibration, slab should not be connected to building structure.
3. The location of the unit should be such as to provide proper access for inspection and servicing.
4. Locate unit where operating sounds will not disturb owner or neighbors.
5. Locate unit so roof runoff water does not pour directly on the unit. Provide gutter or other shielding at roof level. Do not locate unit in an area where excessive snow drifting may occur or accumulate.
6. It is essential that the unit be elevated above the base pad to allow for condensate drainage and possible refreezing of condensation. Provide a base pad which is slightly pitched away from the structure. Route condensate off base pad to an area which will not become slippery and result in personal injury.
7. Where snowfall is anticipated, the height of the unit above the ground level must be considered. Mount unit high enough to be above average area snowfall and to allow for proper condensate drainage.

C. CLEARANCES

The following minimum clearances must be observed for proper unit performance and serviceability.

1. Unit is design certified for application on combustible flooring with 0" minimum clearance.
2. See Figure 5 for illustration of minimum installation-service clearances.

FIGURE 5
PACKAGED HEAT PUMP
OUTSIDE SLAB INSTALLATION, BASEMENT OR
CRAWL SPACE DISTRIBUTION SYSTEM

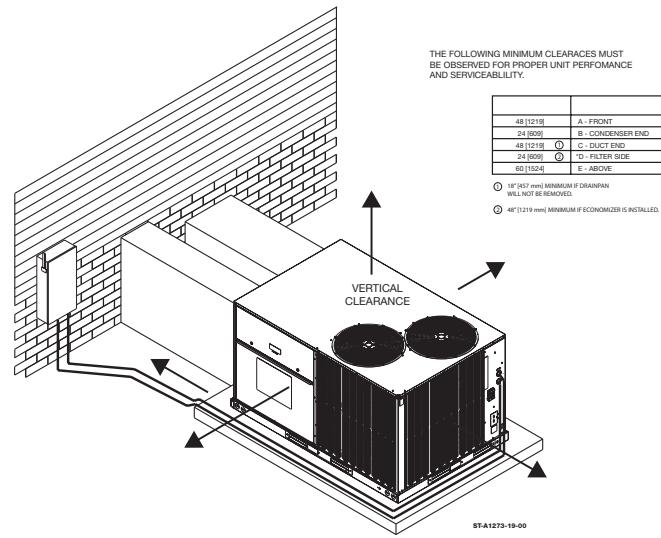
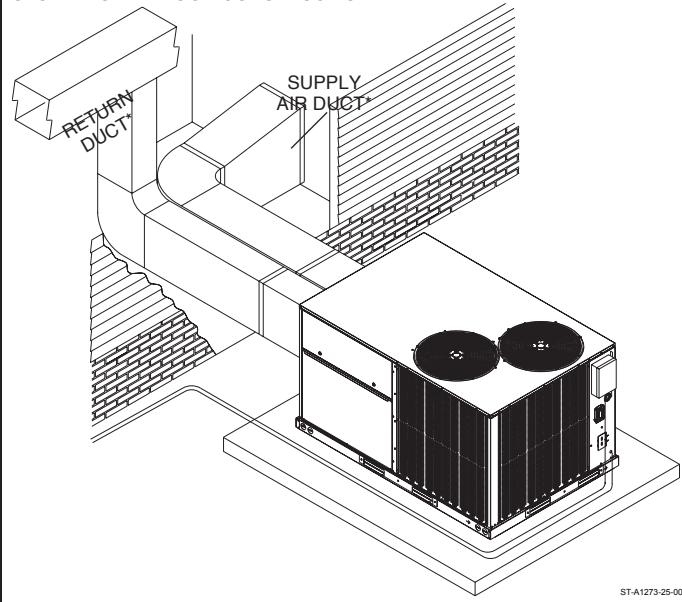


FIGURE 6
PACKAGED HEAT PUMP
OUTSIDE SLAB INSTALLATION, CLOSET DISTRIBUTION
SYSTEM. SLAB FLOOR CONSTRUCTION



D. ROOFTOP INSTALLATION

1. Before locating the unit on the roof, make sure that the strength of the roof and beams is adequate at that point to support the weight involved. **This is very important and user's responsibility.**
2. For rigging and roofcurb details, see Figures 7 and 8. Use field-furnished spreaders.
3. For roofcurb assembly, see Roofcurb Installation Instructions.
4. If the roofcurb is not used, provisions for disposing of condensate water runoff during defrosting must be provided.
5. The unit should be placed on a solid and level roofcurb or platform of adequate strength. See Figure 8.
6. The location of the unit on the roof should be such as to provide proper access for inspection and servicing.

IMPORTANT: If unit will not be put into service immediately, cover supply and return openings to prevent excessive condensation.

FIGURE 7
PACKAGED HEAT PUMP
RIGGING FOR LIFTING

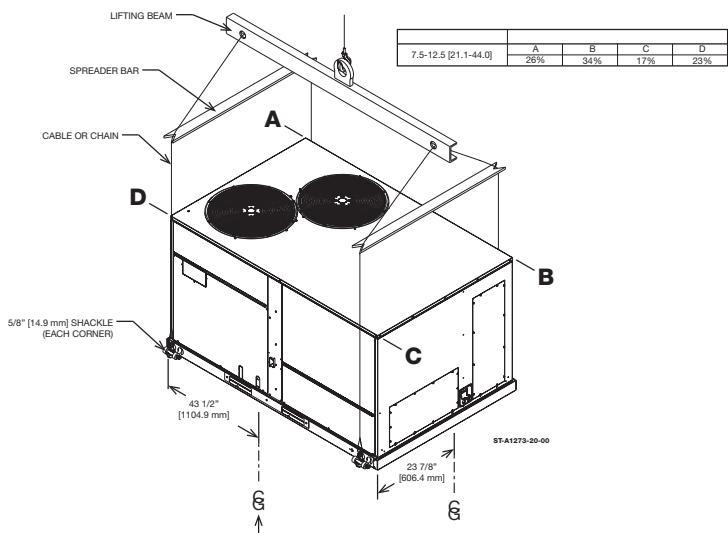
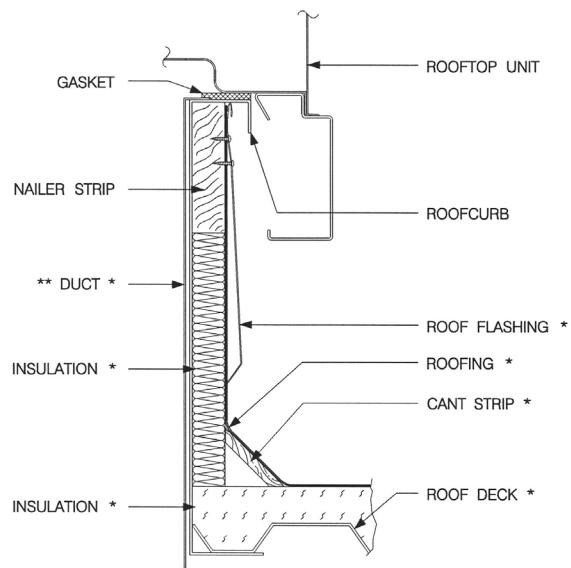
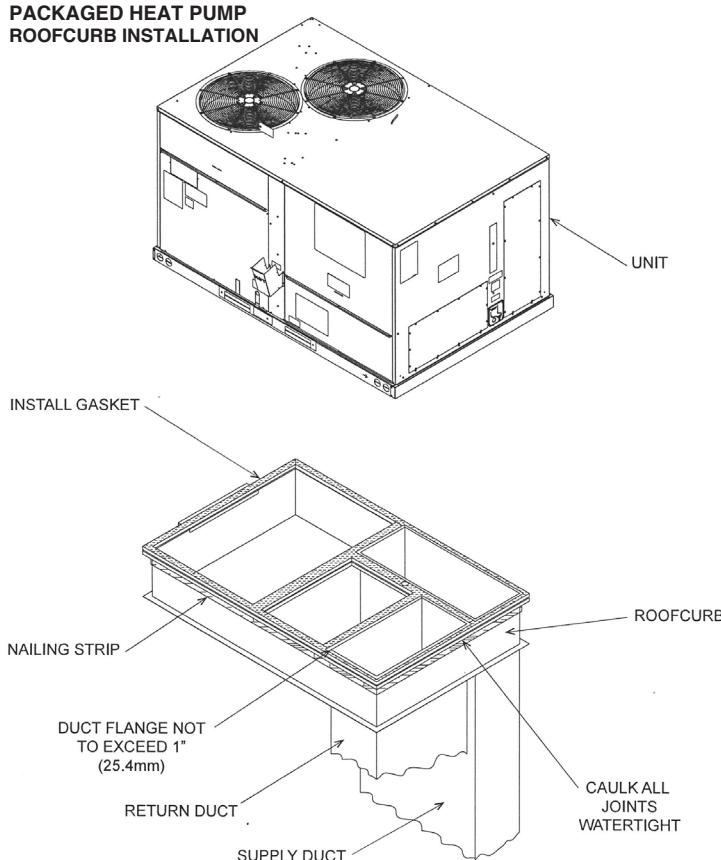


FIGURE 8
PACKAGED HEAT PUMP
ROOFCURB INSTALLATION



* BY CONTRACTOR

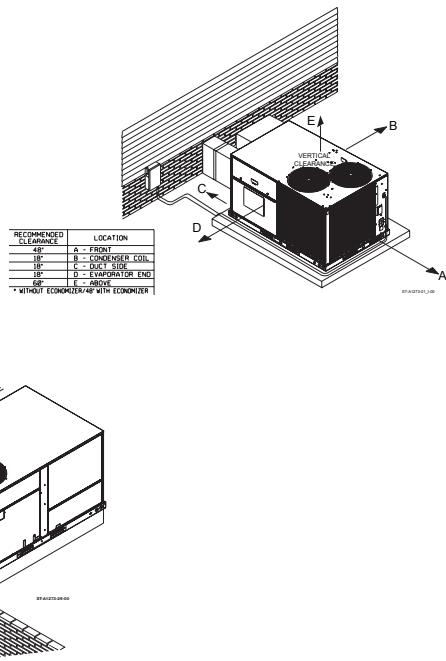
** FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS.
FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.

ST-A1273-01_N-00

FIGURE 9

PACKAGED HEAT PUMP

FLAT ROOFTOP INSTALLATION, ATTIC OR DROP CEILING DISTRIBUTION SYSTEM. MOUNTED ON ROOFCURB. CURB MUST BE LEVEL.



VII. DUCTWORK

Ductwork should be fabricated by the installing contractor in accordance with local codes and NFPA90A. Industry manuals may be used as a guide when sizing and designing the duct system - contact Air Conditioning Contractors of America, 1513 16th St. N.W., Washington, D.C. 20036.

WARNING

DO NOT, UNDER ANY CIRCUMSTANCES, CONNECT RETURN DUCTWORK TO ANY OTHER HEAT PRODUCING DEVICE SUCH AS A FIREPLACE INSERT, STOVE, ETC. UNAUTHORIZED USE OF SUCH DEVICES MAY RESULT IN FIRE, CARBON MONOXIDE POISONING, EXPLOSION, PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

The unit should be placed as close to the space to be air conditioned as possible allowing clearance dimensions as indicated. Ducts should be run as directly as possible to supply and return outlets. Use of non-flammable waterproof 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 on the wall or in the ceiling. A slab installation could be considered when the registers are low on a wall or in the floor.

On ductwork exposed to outside air conditions of temperature and humidity, use a minimum of 2" [50.8 mm] of insulation and a vapor barrier. Distribution system in attic, furred space or crawl space should be insulated with at least 2" [50.8 mm] of insulation with vapor barrier. One-half to 1" [25.4 mm] thickness of insulation is usually sufficient for ductwork inside the air conditioned space.

Balancing dampers should be provided for each branch duct in the supply system. Ductwork should be properly supported from the structure.

When installing ductwork, consider the following items:

1. Noncombustible flexible connectors should be used between ductwork and unit to reduce noise and vibration transmission into the ductwork.
2. When auxiliary heaters are installed, use noncombustible flexible connectors and clearance to combustible material of 0" for the first 3 feet [0.91 m] of discharge duct. Clearance to unit top and side is 0".

VIII. FILTERS

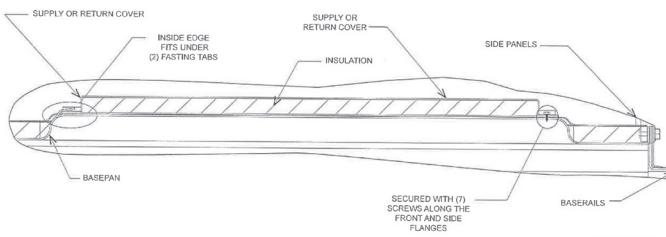
This unit is provided with 4 – 2" x 20" x 20" [51 mm x 508 mm x 508 mm] disposable filters. When replacing filters, ensure they are inserted fully to the back to prevent bypass.

IX. CONVERSION PROCEDURE

DOWNFLOW TO HORIZONTAL

1. Remove the screws and covers from the outside of the supply and return sections.
2. Install the covers over the bottom supply and return openings, painted side up inserting the leading flange under the bracket provided. Place the back flange to the top of the front bracket provided. See Figure 10.
3. Secure the return and supply cover to the front bracket with screws.

**FIGURE 10
COVER GASKET DETAIL**



X. CONDENSATE DRAIN

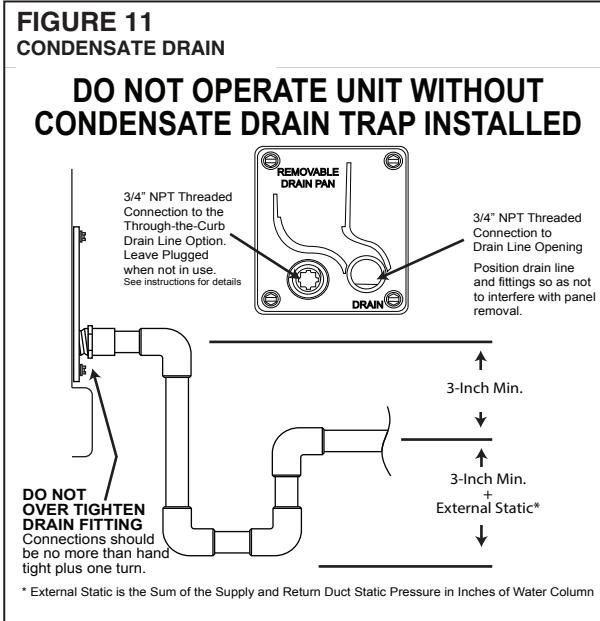
IMPORTANT: Install a condensate trap to ensure proper condensate drainage. See Figure 11.

Standard Drain

- The condensate drain pan has a threaded female 3/4" NPT (11.5 TPI) connection.
- To use the removable drain pan feature of this unit, some of the condensate line joints should be assembled for easy removal and cleaning.
- Use a thin layer of Teflon tape or paste on drain pan connections and install only hand tight.
- Drain line MUST NOT block service access panels.
- Drain line must be no smaller than the drain pan outlet and adequately sized to accommodate the condensate discharge from the unit.
- The center of the drain outlet of the drain line must be a

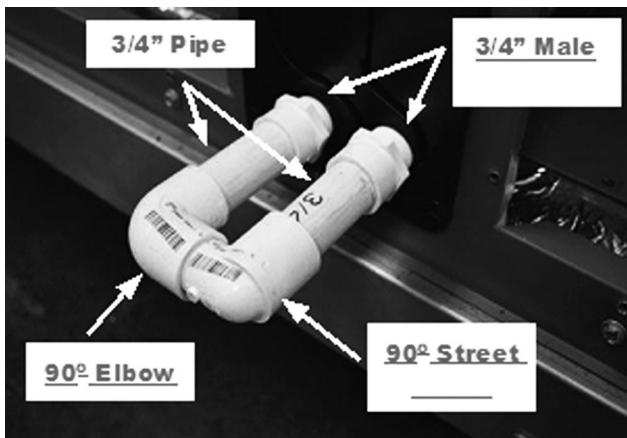
- least 3" below the inlet (outlet of pan). The trap should extend at least 3" below the outlet, and one additional inch for every inch of static pressure on the blower.
- Drain line must be routed to an acceptable drain or outdoors in accordance with local codes.
 - Do not connect the condensate drain line to a closed sewer pipe.
 - Drain line may need insulation or freeze protection in certain applications.

IMPORTANT: For installations that do not use the "through-the-curb" drain port, use a field supplied 3/4" plug to seal the unused connection. Failure to do so could allow rain water or moisture to enter the building.



Through the Curb Drain

- To use the through the curb and base pan drain option the drain must be connected as follows:
- Using a 3/4 inch male NPT threaded fitting, connect to the threaded fitting underneath the unit, use Teflon tape and/or pipe thread sealant on the threads. Tighten this fitting securely. Do not over-tighten as damage can occur. This fitting must not leak.
 - Install a drain trap under the unit, the trap must be at least 3" in depth. Route the drain of the trap to an appropriate drain location as required by local code.
 - On the outside of the unit, connect a 3/4" male PVC pipe fitting to the outlet of the drain pan, and connect a 3/4" male PVC pipe fitting to the through the curb drain fitting (Figure 8). Using appropriate pipe fittings, a 90° degree elbow and 90° street elbow, with two 3" lengths of PVC pipe, to connect these two fittings together. Do not glue the fittings connected to the male adapters so that the drain pan can be easily removed for service.



XI. CONDENSATE DRAIN, OUTDOOR COIL

The outdoor coil during heating operation will sweat or run water off. The outdoor coil will also run water off during the defrost cycle. See Section VI, Installation, Page 48 for mounting precautions.

XII. ELECTRICAL WIRING

Field wiring must comply with the National Electrical Code (CEC in Canada) and local ordinances that may apply.

A. POWER WIRING

1. This unit incorporates dual point electrical connections for the unit and electric heat accessory. A single point wiring accessory kit is available for field installation.
2. It is important that proper electrical power is available to the unit. Voltage should not vary more than 10% from the values marked on the unit rating plate. Phase voltages must be balanced within 3%.
3. Install a branch circuit disconnect within sight of the unit. See Figure 17. Use the unit rating plate or RHPD Electrical Data to determine the required size.
4. The branch circuit wire must be sized in accordance with the National Electrical Code (C.E.C. in Canada) and local ordinances that may apply using the minimum circuit ampacity found on the unit rating plate.
5. Field-installed power wiring must be run through grounded rain-tight conduit attached to the unit power entry panel and connected as follows:

RXJJ-Series Heater Kit Installation Instructions

IMPORTANT: To ensure proper installation and operation, please read all instructions prior to assembly, installation, operation, maintenance, or repair of this product. After unpacking the heater kit, inspect all parts for damage prior to installation and start up.

INTRODUCTION

The information contained in these instructions has been prepared to assist in the proper installation and operation of the auxiliary electric heaters. Improper installation can result in unsatisfactory operation or dangerous conditions not covered by the unit warranty and may invalidate the Underwriters Laboratories listing.

CHECKING PRODUCT RECEIVED

Upon receiving the heater and any related accessories, inspect all items for shipping damage. Claims for damage should be filed immediately with the shipping company,

Check heater kit and accessory model numbers to determine that they are the correct series for the unit and are of the desired kW size and voltage.

APPLICATION

These auxiliary electric resistance heater kits are designed for installation in the discharge air compartment of the indoor blower. Improper usage can cause results which may be dangerous. Do not use heater kits other than those referenced on the unit rating plate and unit Installation Instructions.

OPERATION

The heater elements are energized through controllers operated by the 24V thermostat circuit in conjunction with the unit integrated electric furnace control board (IFC).

TOOLS NEEDED

The following tools can be helpful in installing the heater kits:

- Slotted screwdrivers and 5/16" nut driver.
- Some kits may require the use of Allen wrenches.
- Needle-nose pliers, large slip-joint pliers.
- Wire cutters and strippers

INDOOR BLOWER SPEED

Refer to the indoor blower airflow tables in the unit installations instructions to set the proper blower speed for your airflow CFM and external static pressure requirements.

WARNING! DISCONNECT ALL POWER BEFORE BEGINNING HEATER KIT INSTALLATION. FAILURE TO DO SO CAN RESULT IN SEVERE ELECTRICAL SHOCK OR DEATH.

ELECTRICAL WIRING

Field wiring must comply with applicable National, State, and Local electrical codes and ordinances.

POWER WIRING

If the unit has been in operation without an electric heater kit installed, it may be necessary to change the field installed power wiring. The added current of the electric heater kit may require larger gauge wiring than that required for the unit alone. Refer to the unit rating plate or installation instructions for the required supply circuit ampacity and overcurrent protection.

It is important that adequate electrical power is available to the unit and heater kit. Voltage should not vary more than 10% from that marked on the unit rating plate. Phase voltages must be balanced within 3%.

A properly size disconnect switch or switches shall be located within sight of the unit or as required by applicable National and Local codes.

Power wiring and ground conductor must be routed in rain-tight conduit.

Refer to the unit installation instructions, the illustrations in these instructions, and the unit wiring diagram for power entry, connection, and component locations.

HEATER KIT INSTALLATION

Dual Circuit Power Supply Wiring - (separate heater kit and unit power wiring)

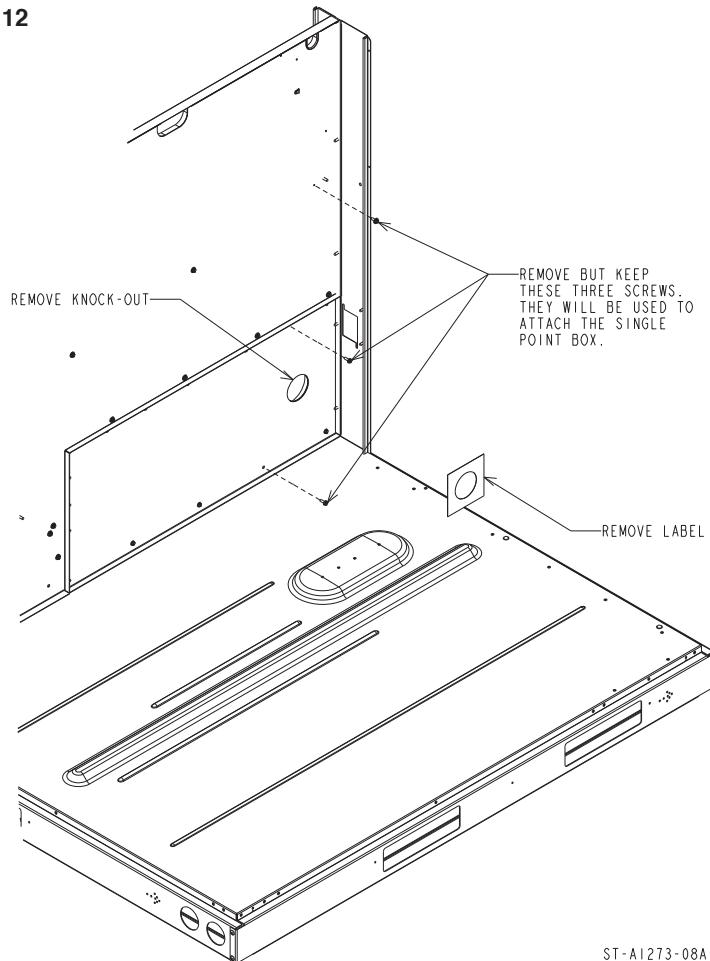
1. Remove package unit blower and heater compartment access panel.
2. Remove unit control box and compressor access panels.
3. Install heater kit in opening under blower deck and secure with the four provided screws (**figure 16**).
4. Route heater power supply wiring from code-compliant disconnect, circuit breaker, or fuse box in rain tight conduit through lower knockout in unit corner post to knockout in outdoor section bulkhead. Label on bulkhead shows knockout location (**figure 12**).
5. Connect heater kit field power wiring to terminal block on heater kit.
6. Connect heater kit grounding conductor to ground lug on heater kit.
7. Connect heater kit control plug to receptacle in heater kit area.
8. Route unit power supply wiring from code-compliant disconnect, circuit breaker, or fuse box in rain tight conduit through upper knockout in unit corner post to opening in bottom of control box below unit contactor.
9. Connect unit field power supply wiring to unit contactor.
10. Connect unit grounding conductor to ground lug in unit control box.
11. Reinstall all access panel.
12. Verify proper unit operation.

Single-Point Unit Wiring - (unit and heater kit power supplied from a single circuit) requires optional RXJX-series single-point connection box kit.

KIT MODEL #	VOLTS	UNIT APPLICATION
RXJX-AC0605	C VOLTAGE 240V	ACD 090/102
RXJX-AC0805	C VOLTAGE 240V	ACD 120
RXJX-AD0605	D VOLTAGE 480/600V	ACD 090/102/120
RXJX-AC0805	C VOLTAGE 240V	HPD 090/102
RXJX-AD0405	D VOLTAGE 480/600V	HPD 090/102
RXJX-AC0909	C VOLTAGE 240V	ACD 150
RXJX-AD0609	D VOLTAGE 480/600V	ACD 150
RXJX-AC0909	C VOLTAGE 240V	HPD 120
RXJX-AD0409	D VOLTAGE 480/600V	HPD 120

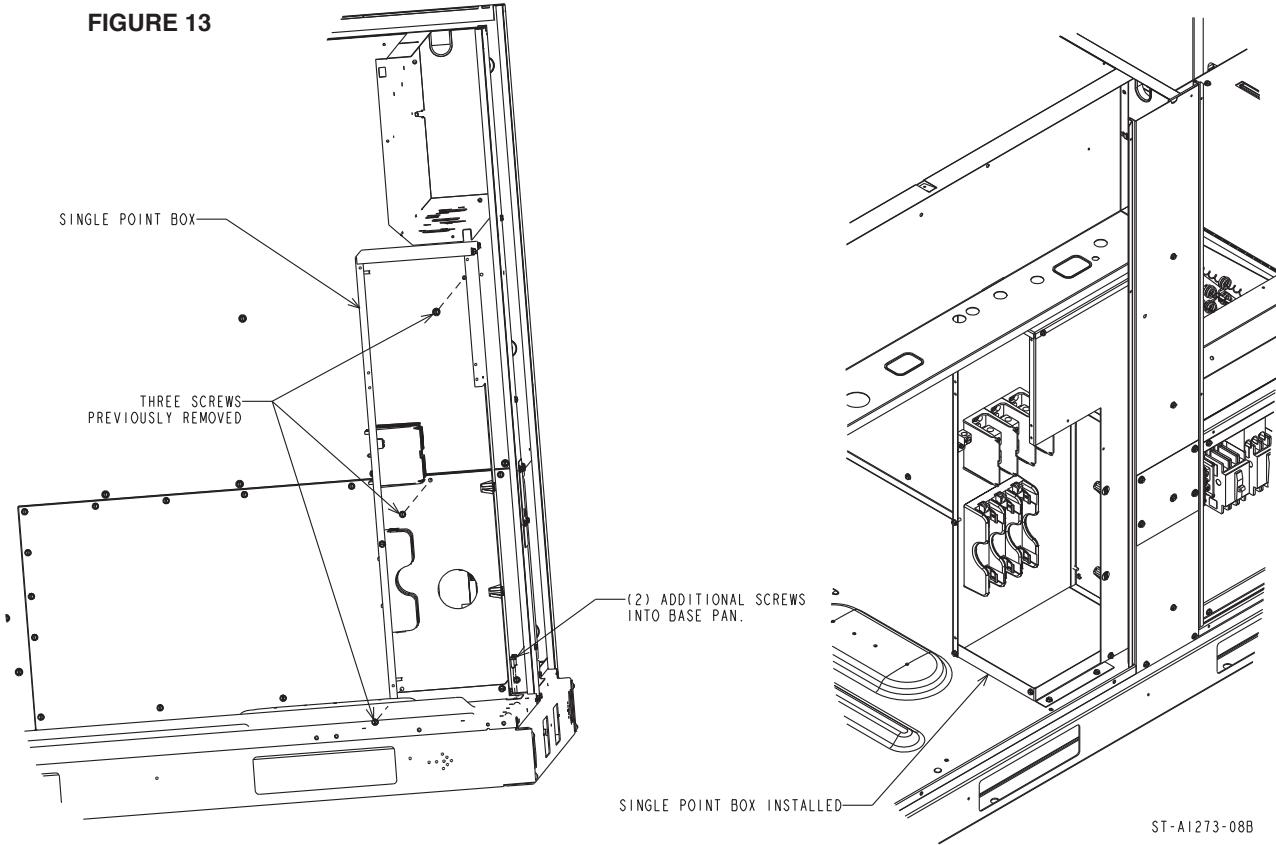
1. Verify that you have the correct RXJX kit. Refer to above table.
2. Remove package unit blower and heater kit access panels.
3. Remove package unit control box and compressor access panels.
4. Install heater kit in opening under blower deck and secure to blower deck flange and unit base rail with the four screws provided (**figure 16**).
5. Install RXJX single-point connection box as described below.
 - a. Remove and retain three screws in bulkhead (**figure 12**).
 - b. Remove knockout from bulkhead blockoff (**figure 12**, label indicates location).
 - c. Remove left side top and bottom panels from single-point box to allow access to bulkhead securing screws (**figure 13**).
 - d. Position single-point box directly against blower bulkhead. Note that the flange on the bulkhead blockoff slides through the slot in the right side of the box (**figure 13**).
 - e. Secure box to bulkhead with the three screws removed in step “5a” above.
 - f. Secure box to unit base pan with two additional screws included with kit (**figure 13**).
 - g. Remove concentric knock-out from left side bottom panel as required
 - h. Reinstall left side top and bottom panels (**figures 14 & 15**).
 - i. Install snap bushing through hole in single-point box and blower bulkhead (**figure 16**).
6. Route power supply wiring from code-compliant disconnect, circuit breaker, or fuse box in rain tight conduit through lower knockout in unit corner post to knockout in side of single-point connection box.
7. Connect power wiring to terminal block in single-point box.
8. Connect grounding conductor to ground lug in single-point box.
9. Connect unit power leads from fuse block to L1, L2, L3 on unit contactor in unit control box.
10. Connect heater kit wiring leads from terminal block in single-point kit through bulkhead opening to terminal block on heater kit.
11. Connect heater kit control plug to receptacle in heater kit area.
12. Reinstall all access panels.
13. Verify proper unit operation.

FIGURE 12



ST-A1273-08A

FIGURE 13



ST-A1273-08B

FIGURE 14

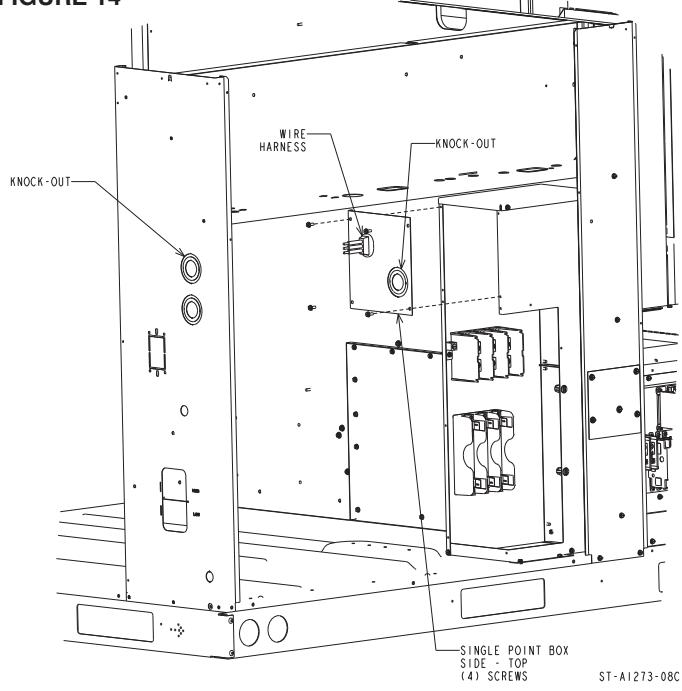


FIGURE 15

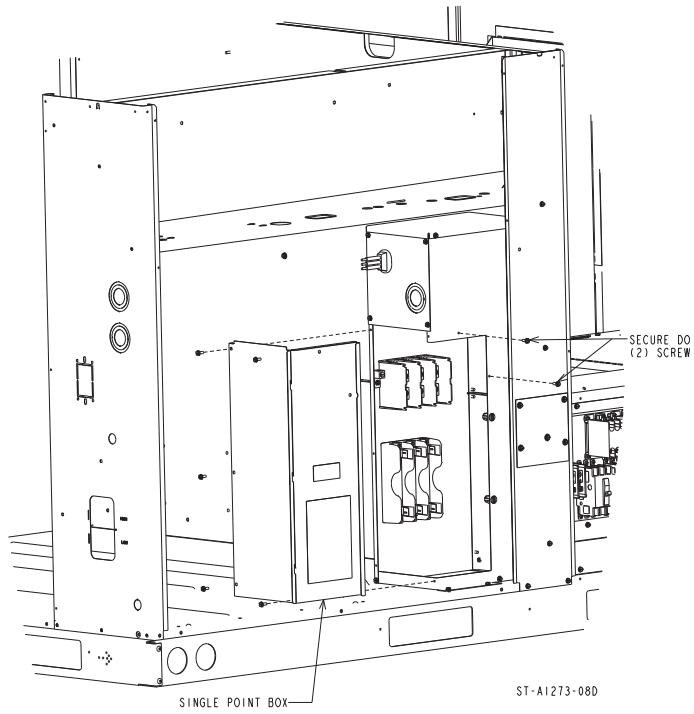


FIGURE 16

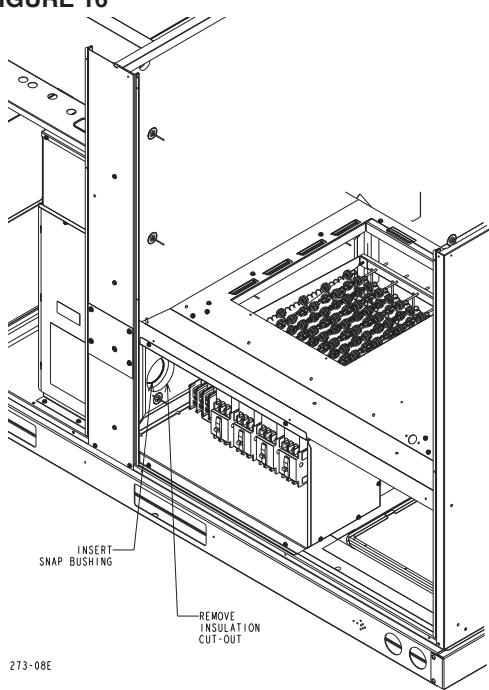


FIGURE 17
BRANCH CIRCUIT DISCONNECT LOCATION

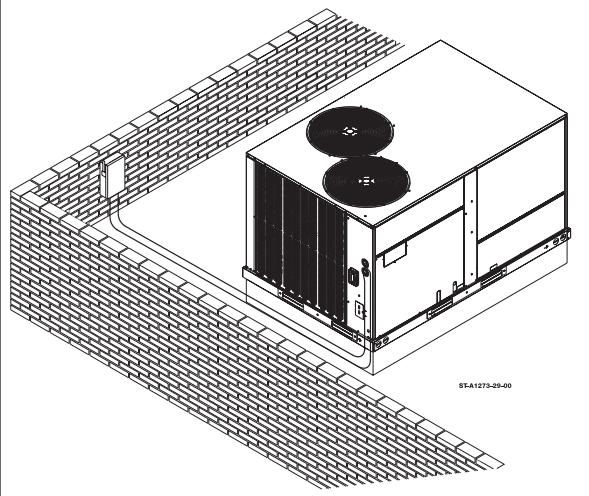


FIGURE 18
THROUGH THE BASE HIGH AND LOW VOLTAGE POWER ENTRY

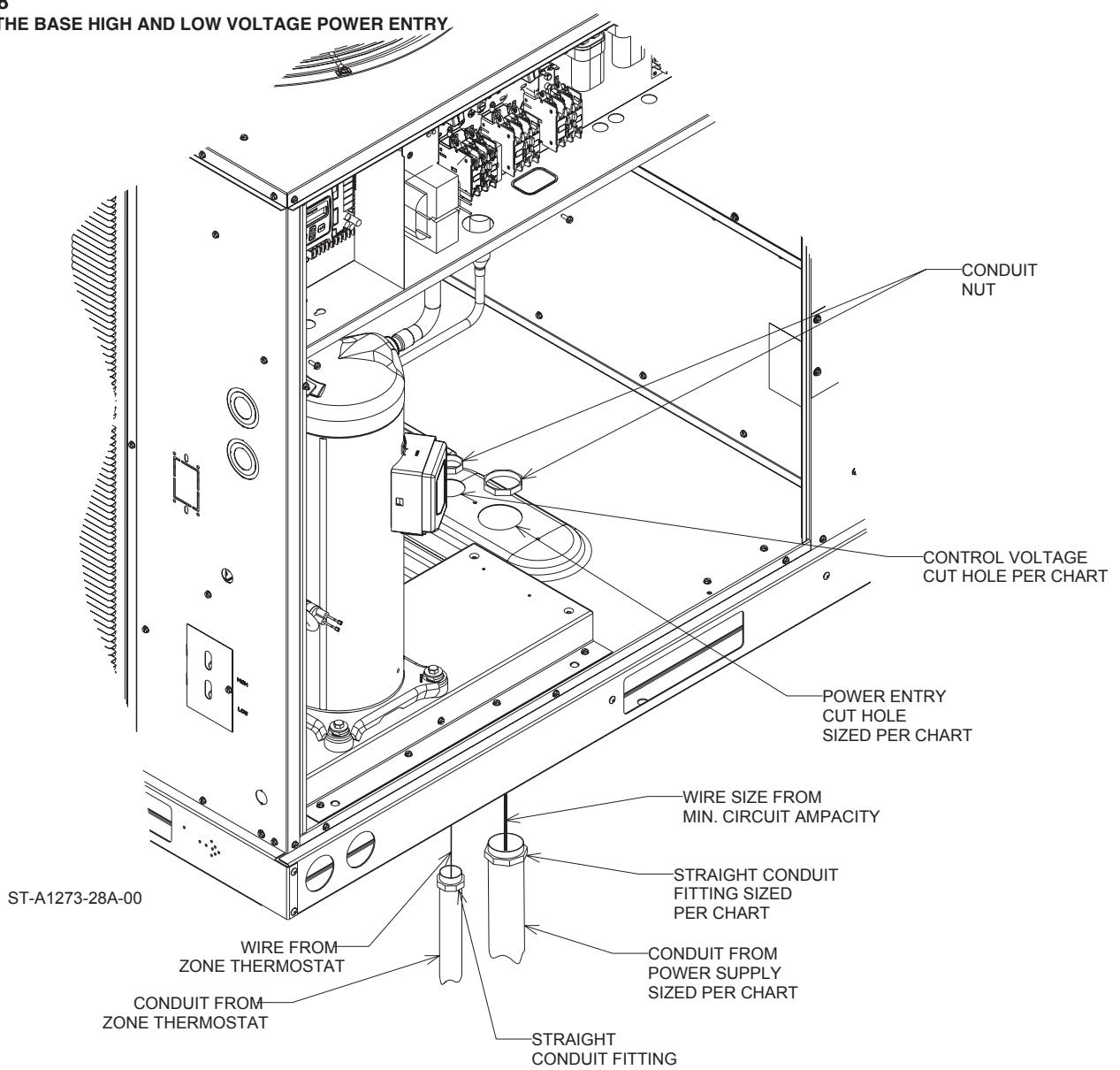


TABLE 1. COPPER WIRE SIZE – AWG (1% VOLTAGE DROP)

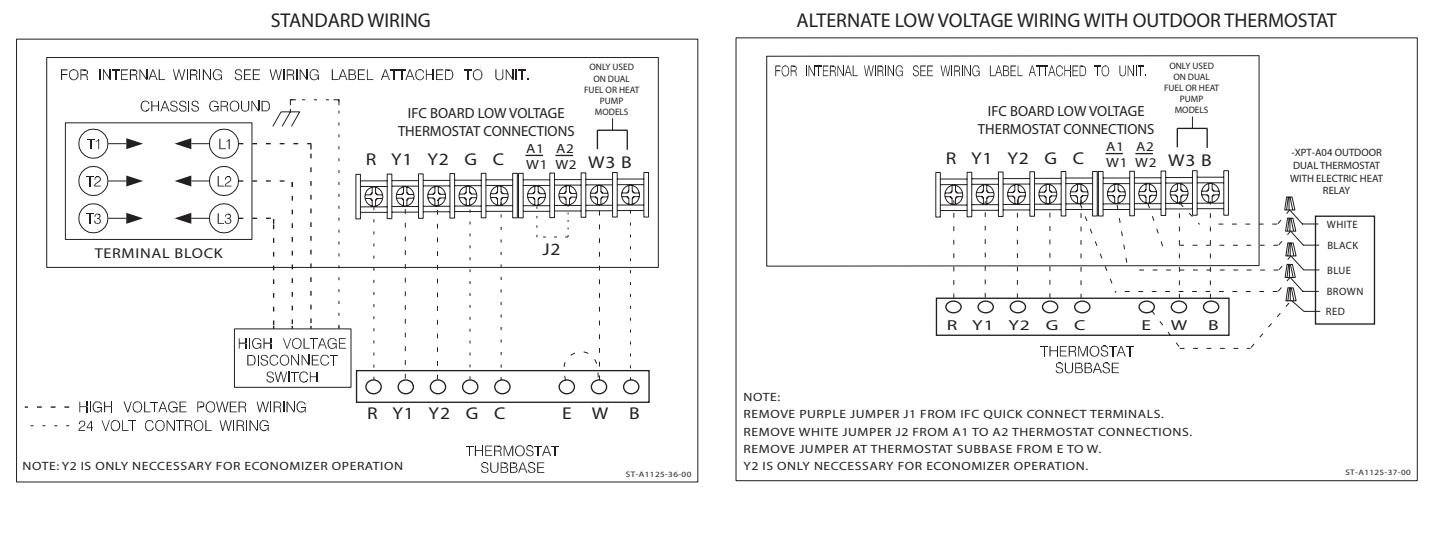
	300	4	3	2	2	1	1/0	1/0	2/0	2/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0	250	250	250	250	300	300	300
Supply	250	4	4	3	3	2	1	1	1/0	1/0	2/0	2/0	2/0	3/0	3/0	3/0	4/0	4/0	4/0	4/0	4/0	250	250	250
Wire	200	6	4	4	4	3	2	2	1	1	1/0	1/0	1/0	2/0	2/0	2/0	3/0	3/0	3/0	3/0	3/0	4/0	4/0	4/0
Length	150	8	6	6	4	4	4	3	3	2	2	1	1	1/0	1/0	1/0	1/0	2/0	2/0	2/0	2/0	2/0	3/0	3/0
Feet	100	10	8	8	6	6	6	4	4	4	3	3	2	2	2	1	1	1	1	1	1/0	1/0	1/0	
	50	14	12	10	10	8	8	6	6	6	4	4	4	3	3	3	2	2	2	2	2	1	1	1
Circuit Ampacity																								
	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	

NOTE:

1. Wire size based on 60°C type copper conductors below 100 ampacity.
 2. Wire size based on 75°C type copper conductors for 100 ampacity and above.

FIGURE 19

THERMOSTAT CONNECTIONS DIAGRAMS



B. CONTROL WIRING (Class II)

1. Low voltage wiring should not be run in conduit with power wiring.
 2. Control wiring is routed through the 7/8" [22 mm] hole in the unit side panel. Use a minimum #18 AWG thermostat wire. For wire lengths exceeding 50' [15.24 m] use #16 AWG thermostat wire. Connect the control wiring to the low voltage terminal block located on the unit integrated control. Route wires under the control voltage shield. See Figure 15.
 3. It is necessary that only approved thermostats be used. Please contact your distributor for part number information. See thermostat specification catalog for recommended thermostat.
 4. Figure 18 shows representative low voltage connection diagrams. Read your thermostat installation instructions for any special requirements for your specific thermostat.

C. INTERNAL WIRING

1. A diagram of the internal wiring of this unit is located on the inside of the control access panel and in this manual. If any of the original wiring must be replaced, the wire gauge and insulation must be the same as original wiring.

Transformer is factory-wired for 230 volts on 208/230 volt models and must be changed for 208-volt applications. See unit wiring diagram for 208-volt wiring.

D. GROUNDING

► WARNING

THE UNIT MUST BE PERMANENTLY GROUNDED. A GROUNDING LUG IS PROVIDED IN THE ELECTRIC HEAT ACCESS AREA FOR A GROUND WIRE. FAILURE TO GROUND THIS UNIT CAN RESULT IN FIRE OR ELECTRICAL SHOCK CAUSING PROPERTY DAMAGE, SEVERE PERSONAL INJURY OR DEATH.

GROUNDING MAY ALSO BE ACCOMPLISHED BY GROUNDING THE POWER LINE CONDUIT TO THE UNIT. MAKE SURE THE CONDUIT NUT LOCKING TEETH HAVE PIERCED THE INSULATING PAINT FILM OF THE SIDE PANEL.

E. THERMOSTAT

The thermostat should be mounted on an inside wall about five feet above the floor in a location where it will not be affected by unconditioned air, sun, or drafts from open doors or other sources. READ installation instructions in heat pump thermostat package CAREFULLY because each has some different wiring requirements.

XIII. INDOOR AIR FLOW DATA

Belt-drive blower models have motor sheaves set for proper CFM at a typical external static. See Airflow Data Tables to determine if adjustments are necessary.

XIV. CRANKCASE HEAT

Crankcase heat is standard on 7½ & 10 ton models. The auxiliary switch on the compressor contactor turns off the heater when the compressor is running.

XV. PRE-START CHECK

1. Is unit properly located and slightly slanted toward indoor condensate drain?
2. Is ductwork insulated, weatherproofed, with proper spacing to combustible materials?
3. Is air free to travel to and from outdoor coil? (See Figure 5.)
4. Is the wiring correct, tight, and according to unit wiring diagram?
5. Is unit grounded?
6. Are field supplied air filters in place and clean?
7. Do the outdoor fan and indoor blower turn freely without rubbing, and are they tight on the motor shafts?
8. Is unit elevated to allow for outdoor coil condensate drainage during heating operation and defrost?

XVI. STARTUP

1. Turn thermostat to "OFF," turn "on" power supply at disconnect switch.
2. Turn temperature setting as high as it will go.
3. Turn fan switch to "ON."
4. Indoor blower should run. Be sure it is running in the right direction.
5. Turn fan switch to "AUTO." Turn system switch to "COOL" and turn temperature setting below room temperature. Unit should run in cooling mode after 5 minute compressor on-delay has expired.
6. Are outdoor fans operating correctly in the right direction?
7. Is compressor running correctly?
8. Record the following after the unit has run some time.
 - A. Operating Mode _____
 - B. Discharge Pressures (High) _____ PSIG
 - C. Vapor Pressure at Compressors (Low) _____ PSIG
 - D. Vapor Line Temperature at Compressors _____ °F.
 - E. Indoor Dry Bulb _____ °F.
 - F. Indoor Wet Bulb _____ °F.
 - G. Outdoor Dry Bulb _____ °F.
 - H. Outdoor Wet Bulb _____ °F.
 - I. Voltage at Contactor _____ Volts
 - J. Current at Contactors _____ Amps
 - K. Model Number _____
 - L. Serial Number _____
 - M. Location _____
 - N. Owner _____
 - O. Date _____
9. Turn thermostat system switch to "HEAT." Unit should stop. Raise temperature setting to above room temperature. Unit should run in heating mode after 5 minute delay. Auxiliary heaters, if installed, will energize 30 to 50 seconds after the initiation of a "W3" call.
10. Check the refrigerant charge using the instructions located on compressor access panel cover. Replace service port caps. Service port cores are for system access only and will leak if not tightly capped.
11. Adjust discharge air grilles and balance system.
12. Check ducts for condensation and air leaks.
13. Check unit for tubing and sheet metal rattles.
14. Instruct the owner on operation and maintenance.
15. Leave "INSTALLATION" and "USE AND CARE" instructions with owner.

XVII. OPERATION

COOLING MODE

With thermostat in the cool mode, fan auto and the room temperature higher than the thermostat setting:

- A. Indoor blower contactor is energized through thermostat contact (G).
- B. Compressor contactor is energized through thermostat contact (Y1). A 5 minute short cycle delay is standard on this unit. Compressor will start immediately if test pins on the defrost board are shorted and released.
- C. Reversing valve is de-energized in the cooling mode through thermostat contact (B).
- D. Economizer enthalpy control (if installed) controls operation of first-stage cooling and positions fresh air damper to maintain mixed air temperature. Second-stage cooling operates normally as required by second stage of thermostats.
- E. The system will continue in cooling operation as long as all safety controls are closed, until the thermostat is satisfied.

HEATING MODE

With thermostat in the heat mode, fan auto and the room temperature lower than the thermostat setting:

- A. Indoor blower contactor is energized through thermostat contact (G).
- B. Compressor contactor is energized through thermostat contact (Y1). A 5 minute short cycle delay is standard on this unit. Compressor will start immediately if test pins on the defrost board are shorted and released.
- C. Reversing valve is energized in the heating mode through thermostat contact (B).
- D. Economizer enthalpy control (if installed) is electrically bypassed with the heat pump control relay during heating operation.
- E. Should the heat requirement be more than the heat pump can supply, a portion of the electric heat accessory (if supplied) is energized through thermostat contact (W3).
- F. The system will continue in heating operation as long as all safety controls are closed, until the thermostat is satisfied.
- G. The unit will function in a defrost mode, reversing the refrigerant cycle to cooling and energizing the electric heat (if supplied) as required through the defrost relay.
- H. If the refrigerant system becomes inoperable during a need for heating, the thermostat may be set to emergency heat which will energize the electric heat (if supplied).

At initial start-up or after extended shutdown periods make sure the crankcase heater is energized for at least 12 hours before the compressor is started.

XVIII. AUXILIARY HEAT

The amount of auxiliary heat required depends on the heat loss of the structure to be heated and the capacity of the heat pump. It is good practice to install strip heat to maintain at least 60°F indoor temperatures in case of compressor failure. The auxiliary heat is energized by the second stage of the thermostat. The amount of electric heat that is allowed to come on, as determined by the output of the heat pump, may be controlled by an outdoor thermostat.

⚠ WARNING

ONLY ELECTRIC HEATER KITS SUPPLIED BY THIS MANUFACTURER AS DESCRIBED IN THIS PUBLICATION HAVE BEEN DESIGNED, TESTED, AND EVALUATED BY A NATIONALLY RECOGNIZED SAFETY TESTING AGENCY FOR USE WITH THIS UNIT. USE OF ANY OTHER MANUFACTURED ELECTRIC HEATERS INSTALLED WITHIN THIS UNIT MAY CAUSE HAZARDOUS CONDITIONS RESULTING IN PROPERTY DAMAGE, FIRE, BODILY INJURY OR DEATH.

XIX. DEMAND DEFROST CONTROL AND HIGH/LOW PRESSURE CONTROLS

The demand defrost control monitors the outdoor ambient temperature, outdoor coil temperature and the compressor run time to determine when a defrost cycle is required.

Enhanced Feature Demand Defrost Control: This defrost control has high and low pressure control inputs with unique pressure switch logic built into the microprocessor to provide compressor and system protection without nuisance lockouts. The control cycles the compressor off for 30 seconds at the beginning and the end of the defrost cycle to eliminate the increased compressor noise caused by rapidly changing system pressures when the reversing valve switches. See next page for diagnostic flash codes and sensor resistance values at various temperatures.

DEFROST INITIATION

A defrost will be initiated when the three conditions below are satisfied:

1. The outdoor coil temperature is below 35°F as measured by a good coil sensor,
2. The compressor has operated for at least 34 minutes with the outdoor coil temperature below 35°F and
3. The measured difference between the ambient temperature and the outdoor coil temperature is greater than the calculated difference determined by the defrost control microprocessor.

DEFROST TERMINATION

Once a defrost is initiated, the defrost will continue until fourteen minutes has elapsed or the coil temperature has reached the selected termination temperature. The factory setting is 70°F but can be changed to 50°F, 60°F, or 80°F by relocating the jumper on the control board.

TEMPERATURE SENSORS

The coil sensor is located on the outdoor coil near the point fed by the distribution tubes from the expansion device, on the top most cross-over tube. The ambient air sensor is located outside the control box so it can sense outdoor temperatures.

If the ambient sensor fails, the defrost control will initiate a defrost every 34 minutes of compressor run time with the coil temperature below 35°F.

If the coil sensor fails, the defrost control will not initiate a defrost.

TEST MODE

The test mode is initiated by shorting the TEST pins. The unit must have an active heat pump heating call to enter the test mode. In this mode of operation, the enable temperature is ignored and all timers are sped up. To initiate a manual defrost, short and hold the TEST pins. Remove the short when the system switches to defrost mode after the compressor noise abatement delay. The defrost will terminate on time (14 minutes) or when the termination temperature has been reached.

Test Sequence of Operation:

- 1) Provide a heating call to the heat pump.
- 2) Short test pins to bypass anti-short cycle timer. (If unit is running, this step is not necessary.)
- 3) Short test pins and hold them shorted to enter defrost mode.

4) Release test pins once control exits noise abatement delay.

5) Monitor coil temperature when control exits defrost.

6) Unit should return to heating mode.

TROUBLESHOOTING DEMAND DEFROST

During the test mode the coil temperature should be monitored. If the system exits defrost at approximately the termination temperature, the control is operating normally. If not, check the coil and ambient temperature sensor resistances, using the sensor temperature vs. resistance table at the end of this section.

Immerse the sensor in water and measure the resistance of the sensor. At 35°F the resistance of the sensor should be approximately 30,000 ohms.

Ensure that the coil sensor is properly installed that is not loose or touching the cabinet.

HIGH/LOW PRESSURE CONTROL MONITORING - ENHANCED DEFROST CONTROL

Status of high and low pressure controls is monitored by the enhanced feature demand defrost control and the following actions are taken.

High Pressure Control – Provides active protection in both cooling and heating modes at all outdoor ambient temperatures. The high pressure control is an automatic reset type and opens at approximately 610 psig and closes at approximately 420 psig. The compressor and fan motor will stop when the high pressure control opens and will start again if the high side pressure drops to approximately 420 psig where the automatic reset high pressure control resets. If the high pressure control opens 3 times within a particular call for heating or cooling operation, the defrost control will lock out compressor and outdoor fan operation.

Low Pressure Control – Provides active protection in both heating and cooling modes at all outdoor ambient temperatures. The low pressure control is an automatic reset type and opens at approximately 15 psig and closes at approximately 40 psig. Operation is slightly different between cooling and heating modes.

Cooling Mode: The compressor and fan motor will stop when the low pressure control opens and will start again when the low side pressure rises to approximately 40 psig after the low pressure control automatically resets. If the low pressure switch opens 3 times within a particular call for cooling operation, the defrost control will lock out compressor and outdoor fan operation.

Heating Mode: The compressor and outdoor fan motor will stop when the low pressure control opens and will start again when the low side pressure rises to approximately 40 psig when the low pressure control automatically resets. If the low pressure switch trips 3 times within 120 minutes of operation during a particular call for heating operation, the defrost control will lock out compressor and outdoor fan operation. If the lock-out due to low pressure occurs at an outdoor ambient temperature below 5°F, the defrost control will automatically exit the lock-out mode when the outdoor ambient temperature rises to 5°F. This feature is necessary since the low pressure control could possibly have opened due to the outdoor ambient being very low rather than an actual system fault.

Exiting Lock-Out Mode: To exit the lock-out mode, remove 24 volts to the defrost control by removing power to the unit or by shorting the two defrost control pins together.

ENHANCED FEATURE DEFROST CONTROL

DIAGNOSTIC CODES SENSOR TEMPERATURE VS. RESISTANCE

LED 1	LED 2	Control Board Status
OFF	OFF	No Power
ON	ON	Coil Sensor Failure
OFF	ON	Ambient Sensor Failure
FLASH	FLASH	Normal
OFF	FLASH	Low Pressure Lockout (short test pins to reset)
FLASH	OFF	High Pressure Lockout (short test pins to reset)
ON	FLASH	Low Pressure Control Open
FLASH	ON	High Pressure Control Open
Alternate Flashing		5 Minute Time Delay

**TABLE
REPLACEMENT PARTS**

Degrees C	Degrees F	Ohms
-20	-4	96,974
-10	14	55,298
0	32	32,650
10	50	19,903
20	68	12,493
25	77	10,000
30	86	8,056
40	104	5,324

Contact your local distributor for a complete parts list.

CHARGE INFORMATION

Refer to the appropriate charge chart on the unit, or in this booklet.

TROUBLESHOOTING

Refer to the troubleshooting chart included in this manual.

WIRING DIAGRAMS

Refer to the appropriate wiring diagram included in this manual.

AIRFLOW PERFORMANCE — 7.5 TON [26.4kW] — 60 Hz — DOWNTIME

AIRFLOW PERFORMANCE — RHPDZ*090*

Air Flow												External Static Pressure — Inches of Water [kPa]																												
CFM [L/s]	0.1	0.2	[0.5]	0.3	[0.7]	0.4	[1.0]	0.5	[1.2]	0.6	[1.5]	0.7	[1.7]	0.8	[2.0]	0.9	[2.2]	1.0	[2.5]	1.1	[2.7]	1.2	[3.0]	1.3	[3.2]	1.4	[3.5]	1.5	[3.7]	1.6	[4.0]	1.7	[4.2]	1.8	[4.5]	1.9	[4.7]	2.0	[5.0]	
CFM	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM					
2400 [1133]	—	—	551	782	585	814	619	848	652	885	684	926	717	969	748	1016	780	1065	810	1118	841	1174	870	1233	900	1284	929	1359	957	1427	985	1498	1012	1572	1039	1649	1065	1729	1091	1813
2500 [1180]	—	—	562	816	596	848	629	884	661	923	693	964	725	1009	756	1087	718	1108	817	1162	846	1219	876	1279	904	1343	933	1409	950	1478	987	1550	1014	1626	1040	1704	1066	1786	1092	1870
2600 [1227]	—	—	574	851	607	885	639	922	671	962	702	1006	733	1082	764	1101	794	1153	823	1209	852	1267	881	1329	909	1393	937	1461	964	1531	990	1605	1016	1682	1042	1762	1067	1844	1092	1930
2700 [1274]	553	857	585	889	618	925	650	963	681	1004	712	1066	772	1147	801	1201	830	1258	858	1317	886	1380	917	1446	941	1515	967	1587	993	1662	1019	1740	1044	1821	1068	1905	1092	1993		
2800 [1321]	565	896	597	930	629	966	660	1006	691	1049	721	1095	751	1144	788	1196	808	1251	837	1309	864	1370	892	1434	919	1501	945	1572	971	1645	996	1721	1021	1801	1045	1883	1069	1969	1093	2057
2900 [1368]	577	937	609	972	640	1010	670	1051	701	1096	730	1143	759	1193	788	1246	816	1303	843	1362	871	1425	897	1490	923	1559	949	1630	974	1705	999	1783	1023	1864	1047	1948	1070	2035	1093	2124
3000 [1416]	590	981	621	1017	651	1057	681	1099	710	1145	739	1193	768	1245	796	1300	823	1357	850	1418	877	1482	903	1549	928	1619	953	1692	978	1768	1002	1847	1026	1939	1049	2014	1072	2103	1094	2194
3100 [1463]	602	1027	633	1065	662	1105	692	1149	720	1196	749	1246	777	1289	804	1355	831	1414	857	1476	883	1541	908	1610	933	1681	958	1755	982	1833	1005	1913	1028	1987	1051	2083	1073	2173	1094	2266
3200 [1510]	615	1075	645	1114	674	1157	702	1202	731	1250	758	1301	785	1356	812	1413	838	1473	864	1537	889	1603	914	1673	938	1746	962	1821	986	1900	1008	1882	1031	2067	1053	2155	1074	2246	1095	2340
3300 [1557]	628	1126	655	1166	685	1201	713	1256	741	1306	768	1359	794	1414	820	1473	846	1535	871	1600	896	1668	920	1739	944	1807	967	1890	989	1970	1012	2053	1033	2139	1055	2229	1096	2416		
3400 [1604]	640	1179	669	1221	687	1266	724	1314	751	1365	777	1419	803	1476	829	1535	854	1593	878	1665	902	1734	926	1807	949	1892	971	1960	993	2042	1015	2126	1036	2214	1077	2338	1097	2495		
3500 [1652]	653	1225	681	1278	708	1324	735	1373	761	1425	787	1481	812	1539	837	1601	861	1665	885	1733	909	1803	932	1877	954	1976	2034	997	2116	1018	2039	997	2201	1059	2383	1078	2478	1097	2576	
3600 [1699]	666	1282	693	1337	720	1384	746	1435	771	1489	797	1545	821	1605	845	1688	869	1734	892	1803	915	1875	938	1950	959	2028	981	2109	1001	2193	1022	2280	1042	2371	1061	2464	1080	2560	1098	2660

NOTE: A/F-Drive left of bold line, B/G-Drive right of bold line, C/H-Drive right of double line.

AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
Airflow	Wet Coil	Vertical Economerizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Drop)	Resistance — Inches of Water [kPa]
CFM [L/s]	Total MBH	Sensible MBH	Power kW		
2400 [1133]	0.97	0.92	0.99	0.06 [.01]	0.01 [.00]
2500 [1180]	0.97	0.93	0.99	0.06 [.01]	0.02 [.00]
2600 [1227]	0.98	0.95	0.99	0.07 [.02]	0.02 [.01]
2700 [1274]	0.99	0.96	0.99	0.07 [.02]	0.03 [.01]
2800 [1321]	0.99	0.98	1.00	0.07 [.02]	0.04 [.01]
2900 [1368]	1.00	1.00	1.00	0.08 [.02]	0.04 [.01]
3000 [1416]	1.01	1.01	1.00	0.08 [.02]	0.05 [.01]
3100 [1463]	1.01	1.03	1.00	0.09 [.02]	0.06 [.02]
3200 [1510]	1.02	1.04	1.01	0.10 [.02]	0.07 [.02]
3300 [1557]	1.02	1.06	1.01	0.10 [.03]	0.08 [.02]
3400 [1604]	1.03	1.08	1.01	0.11 [.03]	0.09 [.02]
3500 [1652]	1.04	1.09	1.01	0.11 [.03]	0.10 [.02]
3600 [1699]	1.04	1.11	1.02	0.12 [.03]	0.11 [.03]

NOTES: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum or maximum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure

4. Drive data shown is for vertical airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity. [] Designates Metric Conversions

AIRFLOW PERFORMANCE — 7.5 TON [26.4kW] — 60 Hz — SIDEFLOW

Model RHPDZ*090* Voltage 208/230, 460, 575 — 3 Phase 60 Hz

AIRFLOW PERFORMANCE — RHPDZ*090*

Air Flow												External Static Pressure — Inches of Water [kPa]													
CFM [L/s]	0.1 [0.2]	0.2 [0.5]	0.3 [0.7]	0.4 [1.0]	0.5 [1.2]	0.6 [1.5]	0.7 [1.7]	0.8 [2.0]	0.9 [2.2]	1.0 [2.5]	1.1 [2.7]	1.2 [3.0]	1.3 [3.2]	1.4 [3.5]	1.5 [3.7]	1.6 [4.0]	1.7 [4.2]	1.8 [4.5]	1.9 [4.7]	2.0 [5.0]					
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W		
2400 [1133]	—	—	—	558	822	594	853	663	925	697	965	730	1056	794	1106	826	1159	856	1216	886	1275	915	1338	943	
2500 [1180]	—	—	—	568	848	604	851	638	966	705	998	769	1044	801	1144	831	1199	861	1258	939	1349	919	1384	947	
2600 [1227]	—	—	—	543	846	579	877	613	912	647	950	681	991	713	1035	745	1082	777	1132	844	1243	867	1303	895	
2700 [1274]	—	—	—	554	877	589	910	623	946	657	986	689	1029	722	1074	753	1124	784	1176	814	1231	844	1280	872	
2800 [1321]	—	—	—	566	911	600	946	634	984	666	1026	699	1070	730	1118	761	1169	792	1223	821	1280	850	1340	878	
2900 [1368]	543	916	577	949	611	986	644	1026	676	1069	708	1115	739	1164	770	1217	799	1273	828	1332	857	1394	885	1459	912
3000 [1416]	555	956	589	990	622	1029	655	1070	687	1155	718	1163	748	1214	778	1289	807	1326	836	1387	864	1451	891	1518	918
3100 [1463]	568	1035	634	1075	666	1118	697	1165	728	1215	758	1288	787	1324	816	1383	844	1445	871	1511	898	1580	924	1652	949
3200 [1510]	581	1044	646	1125	677	1170	708	1218	738	1270	768	1324	796	1382	824	1443	852	1507	879	1575	905	1646	931	1719	955
3300 [1557]	594	1083	626	1134	658	1178	689	1225	719	1275	749	1328	778	1384	806	1444	833	1507	887	1642	912	1714	937	1790	962
3400 [1604]	607	1146	639	1189	670	1234	701	1283	730	1335	759	1380	788	1448	815	1509	843	1574	869	1642	905	1769	944	1864	968
3500 [1652]	621	1203	652	1247	683	1294	713	1344	742	1398	770	1455	798	1515	825	1578	852	1644	878	1714	903	1786	928	1852	952
3600 [1699]	635	1262	666	1308	696	1357	725	1409	754	1465	782	1523	809	1585	836	1650	862	1718	887	1789	912	1864	936	1941	959

NOTE: A/F-Drive left of bold line, B/G-Drive right of bold line, C/H-Drive right of double line.

AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE												Resistance — Inches of Water [kPa]		
Airflow	Total MBH	Sensible MBH	Power kW	Wet Coil			Horizontal Economizer RA Damper Open			Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)			Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Drop)				
CFM [L/s]	Total MBH	Sensible MBH	Power kW														
2400 [1133]	0.97	0.92	0.99	0.06 [0.1]			0.01 [0.0]			0.66 [1.6]			0.53 [1.3]				
2500 [1180]	0.97	0.93	0.99	0.06 [0.1]			0.02 [0.0]			0.71 [1.8]			0.57 [1.4]				
2600 [1227]	0.98	0.95	0.99	0.06 [0.2]			0.02 [0.0]			0.75 [1.9]			0.60 [1.5]				
2700 [1274]	0.99	0.96	0.99	0.07 [0.2]			0.03 [0.1]			0.80 [2.0]			0.65 [1.6]				
2800 [1321]	0.99	0.98	1.00	0.07 [0.2]			0.04 [0.1]			0.85 [2.1]			0.69 [1.7]				
2900 [1368]	1.00	1.00	1.00	0.08 [0.2]			0.04 [0.1]			0.91 [2.3]			0.74 [1.8]				
3000 [1416]	1.01	1.01	1.00	0.08 [0.2]			0.05 [0.1]			0.96 [2.4]			0.79 [2.0]				
3100 [1463]	1.01	1.03	1.00	0.09 [0.2]			0.06 [0.1]			1.02 [2.5]			0.86 [2.1]				
3200 [1510]	1.02	1.04	1.01	0.10 [0.2]			0.07 [0.2]			1.08 [2.7]			0.92 [2.3]				
3300 [1557]	1.02	1.06	1.01	0.10 [0.3]			0.08 [0.2]			1.15 [2.9]			0.99 [2.5]				
3400 [1604]	1.03	1.08	1.01	0.11 [0.3]			0.09 [0.2]			1.21 [3.0]			1.05 [2.6]				
3500 [1652]	1.04	1.09	1.01	0.11 [0.3]			0.10 [0.2]			1.29 [3.2]			1.09 [2.7]				
3600 [1699]	1.04	1.11	1.02	0.12 [0.3]			0.11 [0.3]			1.36 [3.4]			1.13 [2.8]				

- NOTES: 1. Factory sheave settings are shown in bold type.
 2. Do not set motor sheave below minimum or maximum turns open shown.
 3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
 4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

Airflow CFM [L/s]	Total MBH	Sensible MBH	Power kW	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Drop)
2400 [1133]	0.97	0.92	0.99	0.06 [0.1]	0.01 [0.0]	0.66 [1.6]
2500 [1180]	0.97	0.93	0.99	0.06 [0.1]	0.02 [0.0]	0.71 [1.8]
2600 [1227]	0.98	0.95	0.99	0.07 [0.2]	0.02 [0.0]	0.75 [1.9]
2700 [1274]	0.99	0.96	0.99	0.07 [0.2]	0.03 [0.1]	0.80 [2.0]
2800 [1321]	0.99	0.98	1.00	0.07 [0.2]	0.04 [0.1]	0.85 [2.1]
2900 [1368]	1.00	1.00	1.00	0.08 [0.2]	0.04 [0.1]	0.91 [2.3]
3000 [1416]	1.01	1.01	1.00	0.08 [0.2]	0.05 [0.1]	0.96 [2.4]
3100 [1463]	1.01	1.03	1.00	0.09 [0.2]	0.06 [0.1]	1.02 [2.5]
3200 [1510]	1.02	1.04	1.01	0.10 [0.2]	0.07 [0.2]	1.08 [2.7]
3300 [1557]	1.02	1.06	1.01	0.10 [0.3]	0.08 [0.2]	1.15 [2.9]
3400 [1604]	1.03	1.08	1.01	0.11 [0.3]	0.09 [0.2]	1.21 [3.0]
3500 [1652]	1.04	1.09	1.01	0.11 [0.3]	0.10 [0.2]	1.29 [3.2]
3600 [1699]	1.04	1.11	1.02	0.12 [0.3]	0.11 [0.3]	1.36 [3.4]

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity. [] Designates Metric Conversions

AIRFLOW PERFORMANCE — 8.5 TON [29.9kW] — 60 Hz — DOWNFLOW

AIRFLOW PERFORMANCE — RHPDZ*102*

Model RHPDZ*102*												Voltage 208/230, 460, 575 — 3 phase 60 Hz												
Air Flow CFM [L/s]												External Static Pressure — Inches of Water [kPa]												
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	
2700 [1274]	—	561	594	631	655	698	720	762	793	835	853	894	922	1263	1293	910	1411	937	1467	964	1524	990	1625	
2800 [1321]	—	573	608	649	671	708	730	771	804	822	832	861	889	1358	1381	917	1470	943	1528	970	1587	995	1648	
2900 [1368]	—	586	620	654	687	710	740	781	811	830	840	860	889	1413	1473	924	1532	950	1654	1001	1718	1025	1848	
3000 [1416]	564	595	1004	633	666	1099	638	730	1307	820	1362	849	1419	877	1477	904	1537	931	1598	957	1661	982	1725	
3100 [1463]	578	1001	645	1088	678	1148	710	1200	741	1254	771	1308	801	1385	830	1423	858	1482	886	1542	912	1605	964	1733
3200 [1510]	592	1046	658	1148	690	1201	721	1255	752	1388	781	1422	844	1548	894	1611	946	1742	971	1809	1019	1948	1041	2038
3300 [1557]	605	1096	638	1148	671	1202	702	1257	733	1314	763	1372	803	1437	844	1555	877	1619	903	1884	954	1989	1002	2090
3400 [1604]	619	1149	652	1204	684	1260	715	1317	745	1376	755	1437	804	1499	832	1562	860	1627	886	1693	912	1761	938	1830
3500 [1652]	634	1206	666	1263	697	1322	728	1382	758	1443	787	1506	815	1570	843	1635	870	1702	896	1771	922	1841	946	1912
3600 [1699]	648	1267	680	1326	711	1387	741	1449	770	1513	799	1578	827	1645	854	1713	880	1782	906	1853	931	1925	955	1999
3700 [1746]	663	1332	694	1383	724	1456	754	1521	783	1587	811	1654	838	1723	865	1793	891	1865	916	1938	941	2013	965	2059
3800 [1793]	678	1400	708	1464	738	1529	767	1586	795	1665	823	1734	850	1805	876	1878	902	1952	926	2028	951	2105	974	2163
3900 [1840]	693	1472	723	1538	752	1606	781	1675	808	1744	822	1804	862	1882	888	1961	903	2027	933	2093	965	2176	1005	2275
4000 [1888]	708	1548	737	1617	766	1687	794	1758	822	1831	848	1861	874	1981	900	2059	924	2137	948	2218	971	2299	993	2352
4100 [1935]	723	1628	752	1699	781	1771	808	1845	835	1920	861	1997	887	2075	911	2165	935	2236	959	2318	981	2402	1003	2488
	RPM	804	758	710	681	616	559	1048	1003	959	914	872	826	1168	1128	1087	1044	1002	957	1045	1024	1084	1011	1244

NOTE: A/F-Drive left of bold line, B/G-Drive right of bold line, C/H-Drive right of double line.

Drive Package	A/F		B/G		C/H	
	Motor H.P. [W]	2 [1491.4]	AK79H	1VLP407/18	AK79H	1VP567/8
Blower Sheave						
Motor Sheave						
Belt						
Turns Open	0	1	2	3	4	5
RPM	804	758	710	681	616	559

NOTES: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum or maximum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHR! minimum External Static Pressure

4. Drive data shown is for vertical airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

Airflow	AIRFLOW CORRECTION FACTORS *	COMPONENT AIRFLOW RESISTANCE					
		Net Coil	Vertical Economizer	RA Damper	Open	Concentric Adapter	Concentric Diffuser RXRN-AEF2000 & RXMC-DD01 (Flush)
CFM	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			

2700 [1274]	0.99	0.96	0.99	0.07 [0.02]	0.03 [0.01]	0.80 [20]	0.65 [16]
2800 [1321]	1.00	0.98	1.00	0.07 [0.02]	0.03 [0.01]	0.85 [21]	0.69 [17]
2900 [1368]	1.01	1.00	1.00	0.08 [0.02]	0.04 [0.01]	0.91 [23]	0.74 [18]
3000 [1416]	1.01	1.01	1.00	0.08 [0.02]	0.05 [0.01]	0.96 [24]	0.79 [20]
3100 [1463]	1.01	1.03	1.00	0.09 [0.02]	0.06 [0.01]	1.02 [25]	0.86 [21]
3200 [1510]	1.02	1.04	1.01	0.10 [0.02]	0.07 [0.02]	1.08 [27]	0.92 [23]
3300 [1557]	1.02	1.06	1.01	0.10 [0.02]	0.08 [0.02]	1.15 [29]	0.99 [25]
3400 [1604]	1.03	1.08	1.01	0.11 [0.03]	0.09 [0.02]	1.21 [30]	1.05 [26]
3500 [1652]	1.04	1.09	1.01	0.11 [0.03]	0.10 [0.02]	1.29 [32]	1.09 [27]
3600 [1699]	1.04	1.11	1.02	0.12 [0.03]	0.11 [0.03]	1.36 [34]	1.13 [28]
3700 [1746]	1.05	1.12	1.02	0.13 [0.03]	0.12 [0.03]	1.43 [36]	1.18 [29]
3800 [1793]	1.05	1.14	1.02	0.13 [0.03]	0.13 [0.03]	1.50 [37]	1.23 [31]
3900 [1840]	1.06	1.16	1.02	0.14 [0.03]	0.15 [0.04]	1.59 [40]	1.31 [33]
4000 [1888]	1.07	1.17	1.02	0.15 [0.04]	0.16 [0.04]	1.68 [42]	1.38 [34]
4100 [1935]	1.07	1.19	1.03	0.15 [0.04]	0.17 [0.04]	1.74 [43]	1.44 [36]

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity. [] Designates Metric Conversions

AIRFLOW PERFORMANCE – RHPDZ*102*

AIRFLOW PERFORMANCE — 8.5 TON [29.9kW] — 60 Hz — SIDEFLOW

Air Flow										External Static Pressure — Inches of Water [kPa]											
CFM [L/s]	0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W									
2700 [1274]	—	—	—	—	577	932	611	969	644	1009	677	1052	710	1098	742	1147	774	1199	806	1254	837
2800 [1321]	—	—	—	—	556	926	589	962	622	1000	655	1042	687	1087	719	1134	751	1185	783	1239	814
2900 [1368]	—	—	—	—	568	968	601	995	633	1036	666	1125	697	1174	760	1227	791	1282	821	1340	851
3000 [1416]	—	—	—	—	580	994	613	1033	645	1074	676	1119	708	1218	769	1272	799	1329	829	1389	859
3100 [1463]	561	966	1033	624	1073	656	1177	687	1163	718	1213	748	1265	778	1321	808	1379	837	1441	866	
3200 [1510]	574	1037	605	1076	636	1118	667	1163	698	1211	728	1262	758	1316	787	1373	816	1434	845	1497	873
3300 [1557]	587	1082	618	1122	648	1166	679	1212	709	1262	738	1315	767	1371	796	1430	825	1491	853	1556	881
3400 [1604]	600	1130	630	1172	660	1217	690	1266	720	1317	749	1371	777	1429	806	1489	834	1553	861	1619	888
3500 [1652]	613	1182	643	1226	672	1273	702	1323	730	1376	759	1432	787	1481	815	1553	842	1618	869	1686	896
3600 [1699]	626	1238	685	1283	685	1332	713	1383	741	1438	769	1495	797	1566	824	1620	851	1687	877	1756	904
3700 [1746]	640	1287	668	1344	697	1394	725	1447	753	1504	780	1563	807	1625	833	1690	860	1759	886	1830	911
3800 [1793]	653	1360	681	1409	709	1460	737	1515	764	1573	790	1634	817	1688	843	1765	869	1835	894	1902	919
3900 [1840]	667	1426	694	1477	721	1530	748	1587	775	1646	801	1709	827	1774	852	1843	878	1914	902	1989	927
4000 [1888]	680	1486	707	1548	734	1604	760	1662	786	1723	812	1787	837	1884	862	1924	887	1998	911	2074	935
4100 [1935]	694	1570	720	1624	746	1681	772	1740	797	1803	822	1869	847	1938	872	2039	896	2084	919	2162	943

NOTE: A/F=Drive left of bold line, B/G=Drive right of bold line.

Drive Package		A/F	B/G	C/H
Motor H.P. [W]	2 [1491.4]		3 [2237.1]	3 [2237.1]
Blower Sheave	AK79H	AK79H	AK79H	AK79H
Motor-Sheave	1VLP40*7/8		1VLP40*7/8	1VLP56*7/8
Belt	A49		A50	A51
Turns Open	0	1	2	3
RPM	802	754	707	662
	616	565	511	464

NOTE: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum or maximum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure

4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

Airflow	AIRFLOW CORRECTION FACTORS *	COMPONENT AIRFLOW RESISTANCE									
		Wet Coil	Horizontal Economizer RA Damper Open	Resistance — Inches of Water [kPa]		Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Flush)		RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Drop)		Concentric Diffuser RXRN-AEF2000 & Concentric Adapter RXMC-DD01 (Drop)	
2700 [1274]	0.99	0.96	0.99	0.07 [0.02]	0.03 [0.01]	0.80 [0.20]	0.55 [0.16]	0.80 [0.20]	0.55 [0.16]	0.80 [0.20]	0.55 [0.16]
2800 [1321]	0.99	0.98	1.00	0.07 [0.02]	0.03 [0.01]	0.85 [0.21]	0.69 [0.17]	0.85 [0.21]	0.69 [0.17]	0.85 [0.21]	0.69 [0.17]
2900 [1368]	1.00	1.00	1.00	0.08 [0.02]	0.04 [0.01]	0.91 [0.23]	0.74 [0.18]	0.91 [0.23]	0.74 [0.18]	0.91 [0.23]	0.74 [0.18]
3000 [1416]	1.01	1.01	1.00	0.08 [0.02]	0.05 [0.01]	0.96 [0.24]	0.79 [0.20]	0.96 [0.24]	0.79 [0.20]	0.96 [0.24]	0.79 [0.20]
3100 [1463]	1.01	1.03	1.02	0.09 [0.02]	0.06 [0.01]	1.02 [0.25]	0.86 [0.21]	1.02 [0.25]	0.86 [0.21]	1.02 [0.25]	0.86 [0.21]
3200 [1510]	1.02	1.04	1.01	0.10 [0.02]	0.07 [0.01]	1.08 [0.27]	0.92 [0.23]	1.08 [0.27]	0.92 [0.23]	1.08 [0.27]	0.92 [0.23]
3300 [1557]	1.02	1.06	1.01	0.10 [0.03]	0.08 [0.02]	1.15 [0.29]	0.99 [0.25]	1.15 [0.29]	0.99 [0.25]	1.15 [0.29]	0.99 [0.25]
3400 [1604]	1.03	1.08	1.01	0.11 [0.03]	0.09 [0.02]	1.21 [0.30]	1.05 [0.26]	1.21 [0.30]	1.05 [0.26]	1.21 [0.30]	1.05 [0.26]
3500 [1652]	1.04	1.09	1.01	0.11 [0.03]	0.10 [0.02]	1.29 [0.32]	1.09 [0.27]	1.29 [0.32]	1.09 [0.27]	1.29 [0.32]	1.09 [0.27]
3600 [1699]	1.04	1.11	1.02	0.12 [0.03]	0.11 [0.03]	1.36 [0.34]	1.13 [0.28]	1.36 [0.34]	1.13 [0.28]	1.36 [0.34]	1.13 [0.28]
3700 [1746]	1.05	1.12	1.02	0.13 [0.03]	0.12 [0.03]	1.43 [0.36]	1.18 [0.29]	1.43 [0.36]	1.18 [0.29]	1.43 [0.36]	1.18 [0.29]
3800 [1793]	1.05	1.14	1.02	0.13 [0.03]	0.13 [0.03]	1.50 [0.37]	1.23 [0.31]	1.50 [0.37]	1.23 [0.31]	1.50 [0.37]	1.23 [0.31]
3900 [1840]	1.06	1.16	1.02	0.14 [0.04]	0.15 [0.04]	1.59 [0.40]	1.31 [0.33]	1.59 [0.40]	1.31 [0.33]	1.59 [0.40]	1.31 [0.33]
4000 [1888]	1.07	1.17	1.02	0.15 [0.04]	0.16 [0.04]	1.68 [0.42]	1.38 [0.34]	1.68 [0.42]	1.38 [0.34]	1.68 [0.42]	1.38 [0.34]
4100 [1935]	1.07	1.19	1.03	0.15 [0.04]	0.17 [0.04]	1.74 [0.43]	1.44 [0.36]	1.74 [0.43]	1.44 [0.36]	1.74 [0.43]	1.44 [0.36]

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity. [] Designates Metric Conversions

AIRFLOW PERFORMANCE — 10 TON [35.1kW] — 60 Hz — DOWNFLOW

AIRFLOW PERFORMANCE – RHPDZ*120*

Model RHPDZ-120*		Voltage 208/230, 460, 575—3 phase 60 Hz																	
		External Static Pressure — Inches of Water [kPa]																	
		1.0 [-20] 0.9 [-20] 0.8 [-20] 0.7 [-17] 0.6 [-15] 0.5 [-12] 0.4 [-10] 0.3 [-8] 0.2 [-6] 0.1 [-2]																	
Air Flow CFM [L/s]	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	RPM W	
3200 (1510)	620	962	648	1005	676	1059	704	1115	732	1174	759	1234	785	1295	812	1359	838	1425	864
3300 (1557)	634	998	662	1053	690	1110	718	1169	745	1229	771	1292	798	1356	824	1422	850	1632	925
3400 (1604)	649	1049	677	1106	704	1166	731	1227	758	1280	784	1345	810	1422	836	1491	875	1561	900
3500 (1652)	663	1105	691	1165	718	1227	771	1336	797	1424	822	1493	848	1564	873	1637	897	1722	911
3600 (1699)	678	1166	705	1229	722	1293	758	1359	784	1427	809	1487	853	1569	860	1643	884	1798	916
3700 (1746)	693	1232	719	1297	745	1364	771	1433	797	1503	822	1576	847	1650	872	1726	896	1804	920
3800 (1793)	707	1303	734	1371	759	1440	785	1511	810	1584	835	1659	860	1736	894	1815	908	1896	931
3900 (1840)	722	1380	748	1450	773	1521	795	1595	823	1671	848	1748	872	1827	896	1909	919	1992	942
4000 (1888)	737	1451	762	1533	787	1608	812	1684	837	1762	861	1842	884	1924	908	2007	931	2093	954
4100 (1935)	752	1547	777	1622	801	1690	862	1778	853	1854	874	1941	897	2025	920	2111	942	2199	965
4200 (1982)	766	1639	811	1716	839	1877	887	1960	887	2045	910	2132	922	2220	955	2311	977	2403	998
4300 (2029)	781	1736	806	1815	830	1897	853	1981	877	2066	900	2154	922	2243	944	2334	966	2427	988
4400 (2076)	796	1837	820	1919	844	2004	867	2090	890	2178	913	2268	935	2360	957	2453	978	2549	1000
4500 (2123)	811	1944	835	2029	858	2115	881	2204	903	2295	926	2387	947	2481	965	2577	990	2675	1011
4600 (2171)	825	2056	849	2143	872	2232	895	2323	921	2416	939	2511	960	2707	1002	2807	1024	3014	1043
4700 (2218)	841	2172	864	2262	896	2354	908	2443	930	2543	952	2641	973	2740	994	2841	1014	3094	1054
4800 (2265)	856	2294	878	2387	900	2481	922	2577	944	2675	965	2775	986	2877	1006	2980	1026	3086	1046

NOTE: A/F-Drive left of bold line, B/G-Drive right of bold line, C/H-Drive right of double line.

Drive Package	A/F	B/G	C/H
Motor H.P. [W]	2 [1491.4]	3 [2237.1]	3 [2237.1]
Blower Sheave	AK79H	AK79H	AK79H
Motor Sheave	1VL40*78	1VP50*78	1VP56*78
Belt	A49	A50	A51
Turns Open	0	1	2
RPM	826	781	735

NOTES: 1 Fantasy characters continue and shown in bold type.

Factory shearings are shown in bold type.

2. Do not set motor sheave below minimum or maximum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHR, minimum External Static Pressure

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *	COMPONENT AIRFLOW RESISTANCE					
		Wet Coil		Vertical Economizer RA Damer Open		Concentric Diffuser RXRN-AEF3415 & Diffuser RXMC-DD02 (Drop)	
		Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]	Resistance — Inches of Water [kPa]	Resistance — Inches of Water [kPa]
3200 [15.0]	0.96	0.91	0.98	0.07 [.02]	0.07 [.02]	0.74 [.18]	0.56 [.14]
3300 [15.87]	0.97	0.92	0.99	0.07 [.02]	0.08 [.02]	0.79 [.20]	0.59 [.15]
3400 [16.04]	0.97	0.93	0.99	0.07 [.02]	0.09 [.02]	0.84 [.21]	0.62 [.15]
3500 [16.62]	0.98	0.94	0.99	0.08 [.02]	0.10 [.02]	0.90 [.22]	0.66 [.16]
3600 [16.99]	0.98	0.95	0.99	0.08 [.02]	0.11 [.02]	0.95 [.24]	0.69 [.17]
3700 [17.46]	0.99	0.97	1.00	0.09 [.02]	0.12 [.03]	1.00 [.25]	0.73 [.18]
3800 [17.93]	0.99	0.98	1.00	0.09 [.02]	0.13 [.03]	1.04 [.26]	0.76 [.19]
3900 [18.40]	1.00	0.99	1.00	0.09 [.02]	0.15 [.04]	1.09 [.27]	0.80 [.20]
4000 [18.88]	1.00	1.00	1.01	0.10 [.02]	0.16 [.04]	1.13 [.28]	0.84 [.21]
4100 [19.35]	1.00	1.01	1.01	0.10 [.03]	0.17 [.04]	1.19 [.30]	0.88 [.22]
4200 [19.82]	1.01	1.02	1.01	0.11 [.03]	0.19 [.05]	1.24 [.31]	0.92 [.23]
4300 [20.29]	1.01	1.03	1.01	0.11 [.03]	0.20 [.05]	1.31 [.33]	0.97 [.24]
4400 [20.76]	1.02	1.05	1.02	0.12 [.03]	0.21 [.05]	1.37 [.34]	1.02 [.25]
4500 [21.23]	1.02	1.06	1.02	0.13 [.03]	0.23 [.06]	1.43 [.35]	1.07 [.27]
4600 [21.71]	1.03	1.07	1.02	0.13 [.03]	0.24 [.06]	1.48 [.37]	1.11 [.28]
4700 [22.18]	1.03	1.08	1.03	0.14 [.03]	0.26 [.06]	1.54 [.38]	1.15 [.29]
4800 [22.65]	1.04	1.09	1.02	0.14 [.03]	0.28 [.07]	1.59 [.40]	1.19 [.30]

* Multinly correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity [1]Designates Metric Conversations

AIRFLOW PERFORMANCE – RHPDZ*120*

AIRFLOW PERFORMANCE — 10 TON [35.1kW] — 60 Hz — SIDEFLOW

Model RHPDZ*120* Voltage 208/230, 460, 575 — 3 phase 60 Hz

Air Flow CFM [L/s]												External Static Pressure — Inches of Water [kPa]													
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0 [kPa]	0.1	0.2	0.3	0.4		
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W		
3200 [1510]	—	620	1031	650	1078	679	1128	708	1180	736	1235	765	1281	792	1349	820	1410	847	1472	874	1537	900	1604	926	
3300 [1522]	603	1031	632	1079	661	1129	690	1181	719	1235	747	1282	775	1341	812	1476	855	1538	882	1605	908	1674	933	1894	977
3400 [1504]	615	1081	644	1131	673	1183	702	1238	730	1294	757	1353	785	1414	828	1541	864	1608	890	1676	915	1749	941	1898	995
3500 [1652]	628	1134	657	1187	685	1241	713	1298	741	1357	768	1418	795	1481	821	1546	847	1613	873	1682	899	1754	924	1827	948
3600 [1599]	641	1191	669	1246	697	1303	725	1362	753	1423	779	1486	805	1551	831	1619	857	1688	882	1763	907	1834	932	1909	956
3700 [1746]	652	1252	682	1309	709	1368	737	1430	763	1501	790	1558	816	1626	841	1685	866	1767	891	1841	916	1917	940	1965	964
3800 [1793]	667	1317	695	1376	722	1438	748	1501	775	1567	801	1634	826	1704	851	1786	876	1850	901	1926	925	2004	971	2167	995
3900 [1840]	681	1386	708	1447	734	1511	760	1576	786	1644	812	1714	837	1786	862	1850	886	1937	904	2095	957	2178	980	2263	1003
4000 [1888]	694	1438	721	1521	747	1587	773	1655	798	1725	823	1798	848	1872	872	1948	896	2027	920	2108	943	2190	966	2275	988
4100 [1935]	708	1534	734	1600	760	1668	785	1738	810	1810	835	1885	859	1961	883	2040	906	2121	930	2204	952	2289	975	2376	997
4200 [1982]	722	1613	747	1682	773	1762	797	1825	822	1899	846	1976	870	2055	894	2136	916	2219	939	2304	962	2391	984	2481	1005
4300 [2029]	735	1687	761	1767	786	1844	801	1915	824	1992	858	2071	881	2152	904	2235	927	2320	949	2406	971	2497	993	2559	1014
4400 [2076]	750	1784	774	1857	799	1932	823	2088	847	2169	893	2253	915	2338	938	2426	960	2515	981	2607	1002	2701	1023	2797	1043
4500 [2123]	764	1875	788	1950	812	2027	836	2174	859	2271	904	2357	927	2445	948	2535	970	2627	991	2721	1012	2817	1022	2915	1052
4600 [2171]	778	1970	802	2047	826	2126	849	2208	872	2292	894	2377	916	2465	938	2555	959	2647	980	2742	1001	2838	1021	2936	1041
4700 [2218]	793	2068	816	2148	839	2229	852	2313	884	2399	906	2487	928	2577	949	2670	970	2764	991	2860	1011	2959	1031	3060	1050
4800 [2265]	807	2170	830	2252	853	2336	875	2422	897	2510	919	2601	961	2738	982	2803	1021	2908	1021	3084	1041	3187	1060	3292	1078

NOTE: A/F-Drive left of bold line, B/G-Drive right of double line.

Drive Package	A/F	B/G
Motor H.P. [W]	2 [1491.4]	3 [2237.1]
Blower Sheave	AK79H	AK79H
Motor Sheave	1VL40*7/8	1VP56*7/8
Belt	A49	A50
Turns Open	0	1
Turns RPM	817	773
Turns RPM	731	685
Turns RPM	641	594
Turns RPM	1038	996
Turns RPM	954	912
Turns RPM	866	824
Turns RPM	824	1152
Turns RPM	1152	1117
Turns RPM	1077	1035
Turns RPM	994	950

NOTES: 1. Factory sheave settings are shown in bold type.

2. Do not set motor sheave below minimum or maximum turns open shown.

3. Re-adjustment of sheave required to achieve rated airflow at AHR minimum External Static Pressure.

4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
Airflow	Wet Coil	Horizontal Economer RA Damper Open	Concentric Diffuser RXRN-AEF3415 & Diffuser RXMC-DD02 (Flush)	Concentric Diffuser RXRN-AEF3415 & Diffuser RXMC-DD02 (Drop)	
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]	
3200 [1510]	0.96	0.91	0.98	0.07 [02]	0.07 [02]
3300 [1522]	0.97	0.92	0.99	0.07 [02]	0.08 [02]
3400 [1504]	0.97	0.93	0.99	0.07 [02]	0.09 [02]
3500 [1652]	0.98	0.94	0.99	0.08 [02]	0.10 [02]
3600 [1599]	0.98	0.95	0.99	0.08 [02]	0.11 [03]
3700 [1746]	0.99	0.96	1.00	0.09 [02]	0.12 [03]
3800 [1793]	0.99	0.98	1.00	0.09 [02]	0.13 [03]
3900 [1840]	1.00	0.99	1.00	0.09 [02]	0.15 [04]
4000 [1888]	1.00	1.00	1.01	0.10 [02]	0.16 [04]
4100 [1935]	1.00	1.01	1.01	0.10 [02]	0.17 [04]
4200 [1982]	1.01	1.02	1.01	0.11 [03]	0.19 [05]
4300 [2029]	1.01	1.03	1.01	0.11 [03]	0.20 [05]
4400 [2076]	1.02	1.05	1.02	0.12 [03]	0.21 [05]
4500 [2123]	1.02	1.06	1.02	0.13 [03]	0.23 [05]
4600 [2171]	1.03	1.07	1.02	0.13 [03]	0.24 [06]
4700 [2218]	1.03	1.08	1.03	0.14 [03]	0.25 [06]
4800 [2265]	1.04	1.09	1.03	0.14 [04]	0.28 [07]

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity. [] Designates Metric Conversions

XX. HEATER KIT CHARACTERISTICS FOR

TABLE 2. AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION

RHEEM Model Number	Single Power Supply for Both Unit and Heater Kit							Separate Power Supply for Both Unit and Heater Kit							
	Heater Kit			Heat Pump				Heater Kit			Heat Pump				
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater BTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208-240 V	Unit Min. Ckt. Ampacity @ 208-240 V	Min. Ckt. Ampacity 208/240 V	Max. Fuse Size 208/240 V	Min. Circuit Ampacity 208/240V	Min./Max. @ 240 V	Over Current Protective Device Size	Min./Max. @ 240 V		
RHPDZS090ACA	No Heat	-----	-----	-----	44/44	50/60	50/60	-----	-----	44/44	50/60	50/60	50/60		
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	69/73	80/80	80/90	26/30	30/30	44/44	50/60	50/60	50/60	
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	81/87	90/90	90/100	38/44	40/45	44/44	50/60	50/60	50/60	
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	95/103	100/100	110/110	52/60	60/60	44/44	50/60	50/60	50/60	
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	119/130	125/125	150/150	75/87	80/90	44/44	50/60	50/60	50/60	
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	147/163	150/150	175/175	104/119	110/125	44/44	50/60	50/60	50/60	
RHPDZS090ACB	No Heat	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	72/76	80/90	80/90	26/30	30/30	46/46	60/70	60/70	60/70	
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	84/89	90/100	100/100	38/44	40/45	46/46	60/70	60/70	60/70	
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	98/106	110/110	110/110	52/60	60/60	46/46	60/70	60/70	60/70	
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	121/133	125/125	150/150	75/87	80/90	46/46	60/70	60/70	60/70	
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	149/165	175/175	175/175	104/119	110/125	46/46	60/70	60/70	60/70	
RHPDZS090ACC	No Heat	-----	-----	-----	-----	46/46	60/70	60/70	-----	-----	46/46	60/70	60/70	60/70	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	72/76	80/90	80/90	26/30	30/30	46/46	60/70	60/70	60/70	
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	84/89	90/100	100/100	38/44	40/45	46/46	60/70	60/70	60/70	
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	98/106	110/110	110/110	52/60	60/60	46/46	60/70	60/70	60/70	
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	121/133	125/125	150/150	75/87	80/90	46/46	60/70	60/70	60/70	
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	149/165	175/175	175/175	104/119	110/125	46/46	60/70	60/70	60/70	
RHPDZS090ACF	No Heat	-----	-----	-----	44/44	50/60	50/60	-----	-----	44/44	50/60	50/60	50/60		
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	69/73	80/80	80/90	26/30	30/30	44/44	50/60	50/60	50/60	
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	81/87	90/90	90/100	38/44	40/45	44/44	50/60	50/60	50/60	
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	95/103	100/100	110/110	52/60	60/60	44/44	50/60	50/60	50/60	
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	119/130	125/125	150/150	75/87	80/90	44/44	50/60	50/60	50/60	
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	147/163	150/150	175/175	104/119	110/125	44/44	50/60	50/60	50/60	
RHPDZS090ACG	No Heat	-----	-----	-----	46/46	60/70	60/70	-----	-----	46/46	60/70	60/70	60/70		
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	72/76	80/90	80/90	26/30	30/30	46/46	60/70	60/70	60/70	
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	84/89	90/100	100/100	38/44	40/45	46/46	60/70	60/70	60/70	
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	98/106	110/110	110/110	52/60	60/60	46/46	60/70	60/70	60/70	
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	121/133	125/125	150/150	75/87	80/90	46/46	60/70	60/70	60/70	
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	149/165	175/175	175/175	104/119	110/125	46/46	60/70	60/70	60/70	
RHPDZS090ACH	No Heat	-----	-----	-----	46/46	60/70	60/70	-----	-----	46/46	60/70	60/70	60/70		
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	72/76	80/90	80/90	26/30	30/30	46/46	60/70	60/70	60/70	
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	84/89	90/100	100/100	38/44	40/45	46/46	60/70	60/70	60/70	
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	98/106	110/110	110/110	52/60	60/60	46/46	60/70	60/70	60/70	
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	119/130	125/125	150/150	75/87	80/90	46/46	60/70	60/70	60/70	
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	149/165	175/175	175/175	104/119	110/125	46/46	60/70	60/70	60/70	

RHPDZS102ACA	No Heat	-----	-----	-----	48/48	60/70	60/70	-----	48/48	60/70	60/70	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	74/78	80/90	90/100	26/30	30/30	48/48	60/70
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	86/91	90/100	100/110	38/44	40/45	48/48	60/70
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	100/108	110/110	110/110	52/60	60/60	48/48	60/70
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	123/135	150/150	150/150	75/87	80/90	48/48	60/70
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	151/167	175/175	175/175	104/119	110/125	48/48	60/70
RHPDZS102ACB	No Heat	-----	-----	-----	50/50	60/70	60/70	-----	50/50	60/70	60/70	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	76/80	80/90	90/100	26/30	30/30	50/50	60/70
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	87/93	100/100	100/110	38/44	40/45	50/50	60/70
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	102/109	110/110	125/125	52/60	60/60	50/50	60/70
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	125/137	150/150	150/150	75/87	80/90	50/50	60/70
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	153/169	175/175	175/175	104/119	110/125	50/50	60/70
RHPDZS102ACC	No Heat	-----	-----	-----	53/53	60/80	60/80	-----	53/53	60/80	60/80	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	79/83	90/100	90/100	26/30	30/30	53/53	60/80
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	91/96	100/110	110/110	38/44	40/45	53/53	60/80
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	105/113	110/110	125/125	52/60	60/60	53/53	60/80
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	128/140	150/150	150/150	75/87	80/90	53/53	60/80
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	156/172	175/175	200/200	104/119	110/125	53/53	60/80
RHPDZS102ACF	No Heat	-----	-----	-----	48/48	60/70	60/70	-----	48/48	60/70	60/70	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	74/78	80/90	90/100	26/30	30/30	48/48	60/80
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	86/91	90/100	100/110	38/44	40/45	53/53	60/80
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	100/108	110/110	110/110	52/60	60/60	48/48	60/80
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	123/135	150/150	150/150	75/87	80/90	53/53	60/80
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	151/167	175/175	175/175	104/119	110/125	48/48	60/70
RHPDZS102ACG	No Heat	-----	-----	-----	50/50	60/70	60/70	-----	50/50	60/70	60/70	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	76/80	80/90	90/100	26/30	30/30	50/50	60/70
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	87/93	100/100	100/110	38/44	40/45	50/50	60/70
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	102/109	110/110	125/125	52/60	60/60	48/48	60/70
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	125/137	150/150	150/150	75/87	80/90	50/50	60/70
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	153/169	175/175	175/175	104/119	110/125	50/50	60/70
RHPDZS102ACH	No Heat	-----	-----	-----	53/53	60/80	60/80	-----	53/53	60/80	60/80	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	79/83	90/100	90/100	26/30	30/30	53/53	60/80
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	91/96	100/110	110/110	38/44	40/45	53/53	60/80
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	105/113	110/110	125/125	52/60	60/60	48/48	60/80
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	128/140	150/150	150/150	75/87	80/90	53/53	60/80
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	156/172	175/175	200/200	104/119	110/125	53/53	60/80
RHPDZS102ACI	No Heat	-----	-----	-----	54/54	70/80	70/80	-----	54/54	70/80	70/80	
	DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	80/84	90/100	90/100	26/30	30/30	54/54	70/80
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	91/97	100/110	100/110	38/44	40/45	54/54	70/80
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	106/113	110/110	125/125	52/60	60/60	48/48	60/80
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	129/141	150/150	150/150	75/87	80/90	54/54	70/80
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	157/173	175/175	200/200	104/119	110/125	54/54	70/80

RHPDZS120ACB	No Heat	-	-	-	57/57	70/80	70/80	-	-	57/57	70/80	70/80
DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	82/86	90/100	90/110	26/30	30/30	57/57	70/80	70/80
DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	94/100	100/110	110/110	38/44	40/45	57/57	70/80	70/80
DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	108/116	125/125	125/125	52/60	60/60	57/57	70/80	70/80
DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	132/143	150/150	150/150	75/87	80/90	57/57	70/80	70/80
DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	160/176	175/175	200/200	104/119	110/125	57/57	70/80	70/80
RHPDZS120ACC	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	84/88	90/110	100/110	26/30	30/30	58/58	70/90	70/90
DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	96/101	100/110	110/110	38/44	40/45	58/58	70/90	70/90
DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	110/118	125/125	125/125	52/60	60/60	58/58	70/90	70/90
DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	133/145	150/150	150/150	75/87	80/90	58/58	70/90	70/90
DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	161/177	175/175	200/200	104/119	110/125	58/58	70/90	70/90
RHPDZS120ACF	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	80/84	90/100	90/100	26/30	30/30	54/54	70/80	70/80
DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	91/97	100/110	100/110	38/44	40/45	54/54	70/80	70/80
DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	106/113	110/125	125/125	52/60	60/60	54/54	70/80	70/80
DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	129/141	150/150	150/150	75/87	80/90	54/54	70/80	70/80
DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	157/173	175/175	200/200	104/119	110/125	54/54	70/80	70/80
RHPDZS120ACG	No Heat	-	-	-	-	-	-	-	-	57/57	70/80	70/80
DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	82/86	90/100	90/110	26/30	30/30	57/57	70/80	70/80
DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	94/100	100/110	110/110	38/44	40/45	57/57	70/80	70/80
DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	108/116	125/125	125/125	52/60	60/60	57/57	70/80	70/80
DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	132/143	150/150	150/150	75/87	80/90	57/57	70/80	70/80
DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	160/176	175/175	200/200	104/119	110/125	57/57	70/80	70/80
RHPDZS120ACH	No Heat	-	-	-	-	-	-	-	-	58/58	70/90	70/90
DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	84/88	90/110	100/110	26/30	30/30	58/58	70/90	70/90
DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	96/101	100/110	110/110	38/44	40/45	58/58	70/90	70/90
DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	110/118	125/125	125/125	52/60	60/60	58/58	70/90	70/90
DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	133/145	150/150	150/150	75/87	80/90	58/58	70/90	70/90
DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	161/177	175/175	200/200	104/119	110/125	58/58	70/90	70/90
RHPDZT090ACF	No Heat	-	-	-	-	-	-	-	-	44/44	50/60	50/60
DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	69/73	80/80	80/90	26/30	30/30	44/44	50/60	50/60
DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	81/87	90/90	90/100	38/44	40/45	44/44	50/60	50/60
DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	95/103	100/100	110/110	52/60	60/60	44/44	50/60	50/60
DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	119/130	125/125	150/150	75/87	80/90	44/44	50/60	50/60
DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	147/163	150/150	175/175	104/119	110/125	44/44	50/60	50/60
RHPDZT090ACG	No Heat	-	-	-	-	-	-	-	-	46/46	60/70	60/70
DD10CP	1	7.4/9.9	25.25/33.77	20.6/23.8	72/76	80/90	80/90	26/30	30/30	46/46	60/70	60/70
DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	84/89	90/100	100/100	38/44	40/45	46/46	60/70	60/70
DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	98/106	110/110	110/110	52/60	60/60	46/46	60/70	60/70
DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	121/133	125/125	150/150	75/87	80/90	46/46	60/70	60/70
DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	149/165	175/175	175/175	104/119	110/125	46/46	60/70	60/70

RHPDZT090ACH	No Heat	-----	-----	-----	46/46	60/70	60/70	-----	46/46	60/70	60/70
	DD10CP	1	74/9.9	25.25/33.77	20.6/23.8	72/76	80/90	26/30	30/30	46/46	60/70
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	84/89	90/100	38/44	40/45	46/46	60/70
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	98/106	110/110	52/60	60/60	46/46	60/70
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	121/133	125/125	150/150	75/87	80/90	46/46
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	149/165	175/175	175/175	104/119	110/125	46/46
RHPDZT102ACF	No Heat	-----	-----	-----	48/48	60/70	60/70	-----	48/48	60/70	60/70
	DD10CP	1	74/9.9	25.25/33.77	20.6/23.8	74/78	80/90	90/100	26/30	30/30	48/48
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	86/91	90/100	100/110	38/44	40/45	48/48
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	100/108	110/110	110/110	52/60	60/60	48/48
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	123/135	150/150	150/150	75/87	80/90	48/48
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	151/167	175/175	175/175	104/119	110/125	48/48
RHPDZT102ACG	No Heat	-----	-----	-----	50/50	60/70	60/70	-----	50/50	60/70	60/70
	DD10CP	1	74/9.9	25.25/33.77	20.6/23.8	76/80	80/90	90/100	26/30	30/30	50/50
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	87/93	100/100	100/110	38/44	40/45	50/50
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	102/109	110/110	125/125	52/60	60/60	50/50
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	125/137	150/150	150/150	75/87	80/90	50/50
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	153/169	175/175	175/175	104/119	110/125	50/50
RHPDZT102ACH	No Heat	-----	-----	-----	53/53	60/80	60/80	-----	53/53	60/80	60/80
	DD10CP	1	74/9.9	25.25/33.77	20.6/23.8	79/83	90/100	90/100	26/30	30/30	53/53
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	91/96	100/110	100/110	38/44	40/45	53/53
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	105/113	110/110	125/125	52/60	60/60	53/53
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	128/140	150/150	150/150	75/87	80/90	53/53
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	156/172	175/175	200/200	104/119	110/125	53/53
RHPDZT120ACF	No Heat	-----	-----	-----	54/54	70/80	70/80	-----	54/54	70/80	70/80
	DD10CP	1	74/9.9	25.25/33.77	20.6/23.8	80/84	90/100	90/100	26/30	30/30	54/54
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	91/97	100/110	100/110	38/44	40/45	54/54
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	106/113	110/125	125/125	52/60	60/60	54/54
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	129/141	150/150	150/150	75/87	80/90	54/54
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	157/173	175/175	200/200	104/119	110/125	54/54
RHPDZT120ACG	No Heat	-----	-----	-----	54/54	70/80	70/80	-----	54/54	70/80	70/80
	DD10CP	1	74/9.9	25.25/33.77	20.6/23.8	80/84	90/100	90/100	26/30	30/30	54/54
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	94/100	100/110	110/110	38/44	40/45	54/54
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	108/116	125/125	125/125	52/60	60/60	54/54
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	132/143	150/150	150/150	75/87	80/90	54/54
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	160/176	175/175	200/200	104/119	110/125	54/54
RHPDZT120ACH	No Heat	-----	-----	-----	58/58	70/90	70/90	-----	58/58	70/90	70/90
	DD10CP	1	74/9.9	25.25/33.77	20.6/23.8	84/88	90/100	100/110	26/30	30/30	58/58
	DD15CP	1	10.8/14.4	36.84/49.13	30.0/34.6	96/101	100/110	110/110	38/44	40/45	58/58
	DD20CP	2	14.9/19.8	50.83/67.55	41.3/47.6	110/118	125/125	125/125	52/60	60/60	58/58
	DD30CP	2	21.6/28.8	73.69/98.25	60.0/69.3	133/145	150/150	150/150	75/87	80/90	58/58
	DD40CP	2	29.7/39.6	101.32/135.10	82.5/95.2	161/177	175/175	200/200	104/119	110/125	58/58

480 VOLT, THREE PHASE; 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

RHEEM Model Number	Single Power Supply for Both Unit and Heater Kit						Separate Power Supply for Both Unit and Heater Kit					
	Heater Kit			Heat Pump			Heater Kit			Heat Pump		
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Heater Amp. @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size @ 480 V	Min./Max. Device Size @ 480 V	Min. Circuit Ampacity 480V	Max. Fuse Size 480V	Min./Max. Device Size @ 480 V
RHPDZS090ADA	No Heat	—	—	—	—	19	25/25	—	—	—	—	19
	DD100NV	1	9.9	33.77	11.9	34	35/35	—	15	15	19	25/25
	DD150NV	1	14.4	49.13	17.3	40	45/45	—	22	25	19	25/25
	DD200NV	2	19.8	67.55	23.8	48	50/50	—	30	30	19	25/25
	DD300NV	2	28.8	98.25	34.6	62	70/70	—	44	45	19	25/25
	DD400NV	2	39.6	135.10	47.6	78	80/80	—	60	60	19	25/25
RHPDZS090ADB	No Heat	—	—	—	—	—	—	—	—	—	—	—
	DD100NV	1	9.9	33.77	11.9	35	40/40	—	—	—	—	20
	DD150NV	1	14.4	49.13	17.3	42	45/45	—	22	25	20	25/25
	DD200NV	2	19.8	67.55	23.8	50	60/60	—	30	30	20	25/25
	DD300NV	2	28.8	98.25	34.6	63	70/70	—	44	45	20	25/25
	DD400NV	2	39.6	135.10	47.6	80	90/90	—	60	60	20	25/25
RHPDZS090ADC	No Heat	—	—	—	—	—	—	—	—	—	—	—
	DD100NV	1	9.9	33.77	11.9	35	40/40	—	15	15	20	25/25
	DD150NV	1	14.4	49.13	17.3	42	45/45	—	22	25	20	25/25
	DD200NV	2	19.8	67.55	23.8	50	60/60	—	30	30	20	25/25
	DD300NV	2	28.8	98.25	34.6	63	70/70	—	44	45	20	25/25
	DD400NV	2	39.6	135.10	47.6	80	90/90	—	60	60	20	25/25
RHPDZS090ADF	No Heat	—	—	—	—	—	—	—	—	—	—	—
	DD100NV	1	9.9	33.77	11.9	34	35/35	—	15	15	19	25/25
	DD150NV	1	14.4	49.13	17.3	40	45/45	—	22	25	19	25/25
	DD200NV	2	19.8	67.55	23.8	48	50/50	—	30	30	19	25/25
	DD300NV	2	28.8	98.25	34.6	62	70/70	—	44	45	19	25/25
	DD400NV	2	39.6	135.10	47.6	78	80/80	—	60	60	19	25/25
RHPDZS090ADG	No Heat	—	—	—	—	—	—	—	—	—	—	—
	DD100NV	1	9.9	33.77	11.9	35	40/40	—	15	15	20	25/25
	DD150NV	1	14.4	49.13	17.3	42	45/45	—	22	25	20	25/25
	DD200NV	2	19.8	67.55	23.8	50	60/60	—	30	30	20	25/25
	DD300NV	2	28.8	98.25	34.6	63	70/70	—	44	45	20	25/25
	DD400NV	2	39.6	135.10	47.6	80	90/90	—	60	60	20	25/25
RHPDZS090ADH	No Heat	—	—	—	—	—	—	—	—	—	—	—
	DD100NV	1	9.9	33.77	11.9	35	40/40	—	15	15	20	25/25
	DD150NV	1	14.4	49.13	17.3	42	45/45	—	22	25	20	25/25
	DD200NV	2	19.8	67.55	23.8	50	60/60	—	30	30	20	25/25
	DD300NV	2	28.8	98.25	34.6	63	70/70	—	44	45	20	25/25
	DD400NV	2	39.6	135.10	47.6	80	90/90	—	60	60	20	25/25

RHPDZS102ADA	No Heat	----	----	23	30/30	----	----	23	30/30	-----
	DD100DNV	1	9.9	33.77	11.9	37	40/45	15	23	30/30
	DD150DNV	1	14.4	49.13	17.3	44	50/50	22	25	30/30
	DD200DNV	2	19.8	67.55	23.8	52	60/60	30	30	30/30
	DD300DNV	2	28.8	98.25	34.6	66	70/70	44	45	30/30
	DD400DNV	2	39.6	135.10	47.6	82	90/90	60	60	30/30
RHPDZS102ADB	No Heat	----	----	24	30/35	----	----	24	30/35	-----
	DD100DNV	1	9.9	33.77	11.9	38	40/45	15	24	30/35
	DD150DNV	1	14.4	49.13	17.3	45	50/50	22	25	30/35
	DD200DNV	2	19.8	67.55	23.8	53	60/60	30	30	30/35
	DD300DNV	2	28.8	98.25	34.6	67	70/70	44	45	30/35
	DD400DNV	2	39.6	135.10	47.6	83	90/90	60	60	30/35
RHPDZS102ADC	No Heat	----	----	25	30/35	----	----	25	30/35	-----
	DD100DNV	1	9.9	33.77	11.9	40	45/45	15	25	30/35
	DD150DNV	1	14.4	49.13	17.3	47	50/50	22	25	30/35
	DD200DNV	2	19.8	67.55	23.8	55	60/60	30	30	30/35
	DD300DNV	2	28.8	98.25	34.6	68	80/80	44	45	30/35
	DD400DNV	2	39.6	135.10	47.6	85	90/90	60	60	30/35
RHPDZS102ADF	No Heat	----	----	23	30/30	----	----	23	30/30	-----
	DD100DNV	1	9.9	33.77	11.9	37	40/45	15	15	30/30
	DD150DNV	1	14.4	49.13	17.3	44	50/50	22	25	30/30
	DD200DNV	2	19.8	67.55	23.8	52	60/60	30	30	30/30
	DD300DNV	2	28.8	98.25	34.6	66	70/70	44	45	30/35
	DD400DNV	2	39.6	135.10	47.6	82	90/90	60	60	30/35
RHPDZS102ADG	No Heat	----	----	24	30/35	----	----	24	30/35	-----
	DD100DNV	1	9.9	33.77	11.9	38	40/45	15	15	30/35
	DD150DNV	1	14.4	49.13	17.3	45	50/50	22	25	30/35
	DD200DNV	2	19.8	67.55	23.8	53	60/60	30	30	30/35
	DD300DNV	2	28.8	98.25	34.6	67	70/70	44	45	30/35
	DD400DNV	2	39.6	135.10	47.6	83	90/90	60	60	30/35
RHPDZS102ADH	No Heat	----	----	25	30/35	----	----	25	30/35	-----
	DD100DNV	1	9.9	33.77	11.9	40	45/45	15	25	30/35
	DD150DNV	1	14.4	49.13	17.3	47	50/50	22	25	30/35
	DD200DNV	2	19.8	67.55	23.8	55	60/60	30	30	30/35
	DD300DNV	2	28.8	98.25	34.6	68	80/80	44	45	30/35
	DD400DNV	2	39.6	135.10	47.6	85	90/90	60	60	30/35
RHPDZS120ADA	No Heat	----	----	26	30/40	----	----	26	30/40	-----
	DD100DNV	1	9.9	33.77	11.9	41	45/50	15	26	30/40
	DD150DNV	1	14.4	49.13	17.3	48	50/50	22	25	30/40
	DD200DNV	2	19.8	67.55	23.8	56	60/60	30	26	30/40
	DD300DNV	2	28.8	98.25	34.6	69	80/80	44	45	30/40
	DD400DNV	2	39.6	135.10	47.6	85	90/90	60	60	30/40

RHPDZS120ADB	No Heat	-	-	-	27	35/40	-	-	-	27	35/40	-
DD100DNV	1	9.9	33.77	11.9	42	45/50	-	-	15	15	27	35/40
DD150DNV	1	14.4	49.13	17.3	49	60/60	-	-	22	25	27	35/40
DD200DNV	2	19.8	67.55	23.8	57	60/60	-	-	30	30	27	35/40
DD300DNV	2	28.8	98.25	34.6	70	80/80	-	-	44	45	27	35/40
DD400DNV	2	39.6	135.10	47.6	87	90/90	-	-	60	60	27	35/40
 RHPDZS120ADC	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD100DNV	1	9.9	33.77	11.9	43	45/50	-	-	15	15	28	35/40
DD150DNV	1	14.4	49.13	17.3	50	60/60	-	-	22	25	28	35/40
DD200DNV	2	19.8	67.55	23.8	58	60/60	-	-	30	30	28	35/40
DD300DNV	2	28.8	98.25	34.6	71	80/80	-	-	44	45	28	35/40
DD400DNV	2	39.6	135.10	47.6	87	90/90	-	-	60	60	28	35/40
 RHPDZS120ADF	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD100DNV	1	9.9	33.77	11.9	41	45/50	-	-	15	15	26	30/40
DD150DNV	1	14.4	49.13	17.3	48	50/50	-	-	22	25	26	30/40
DD200DNV	2	19.8	67.55	23.8	56	60/60	-	-	30	30	26	30/40
DD300DNV	2	28.8	98.25	34.6	69	80/80	-	-	44	45	26	30/40
DD400DNV	2	39.6	135.10	47.6	85	90/90	-	-	60	60	26	30/40
 RHPDZS120ADG	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD100DNV	1	9.9	33.77	11.9	42	45/50	-	-	15	15	26	30/40
DD150DNV	1	14.4	49.13	17.3	48	50/50	-	-	22	25	26	30/40
DD200DNV	2	19.8	67.55	23.8	56	60/60	-	-	30	30	26	30/40
DD300DNV	2	28.8	98.25	34.6	69	80/80	-	-	44	45	26	30/40
DD400DNV	2	39.6	135.10	47.6	87	90/90	-	-	60	60	26	30/40
 RHPDZS120ADH	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD100DNV	1	9.9	33.77	11.9	43	45/50	-	-	15	15	28	35/40
DD150DNV	1	14.4	49.13	17.3	50	60/60	-	-	22	25	28	35/40
DD200DNV	2	19.8	67.55	23.8	58	60/60	-	-	30	30	28	35/40
DD300DNV	2	28.8	98.25	34.6	71	80/80	-	-	44	45	28	35/40
DD400DNV	2	39.6	135.10	47.6	87	90/90	-	-	60	60	28	35/40
 RHPDZT090ADF	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD100DNV	1	9.9	33.77	11.9	43	45/50	-	-	15	15	28	35/40
DD150DNV	1	14.4	49.13	17.3	50	60/60	-	-	22	25	28	35/40
DD200DNV	2	19.8	67.55	23.8	58	60/60	-	-	30	30	28	35/40
DD300DNV	2	28.8	98.25	34.6	71	80/80	-	-	44	45	28	35/40
DD400DNV	2	39.6	135.10	47.6	87	90/90	-	-	60	60	28	35/40
 RHPDZT090ADG	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD100DNV	1	9.9	33.77	11.9	34	35/35	-	-	15	15	19	25/25
DD150DNV	1	14.4	49.13	17.3	40	45/45	-	-	22	25	19	25/25
DD200DNV	2	19.8	67.55	23.8	48	50/50	-	-	30	30	19	25/25
DD300DNV	2	28.8	98.25	34.6	62	70/70	-	-	44	45	19	25/25
DD400DNV	2	39.6	135.10	47.6	78	80/80	-	-	60	60	19	25/25
 RHPDZT090ADH	No Heat	-	-	-	-	-	-	-	-	-	-	-
DD100DNV	1	9.9	33.77	11.9	35	40/40	-	-	15	15	20	25/25
DD150DNV	1	14.4	49.13	17.3	42	45/45	-	-	22	25	20	25/25
DD200DNV	2	19.8	67.55	23.8	50	60/60	-	-	30	30	20	25/25
DD300DNV	2	28.8	98.25	34.6	63	70/70	-	-	44	45	20	25/25
DD400DNV	2	39.6	135.10	47.6	80	90/90	-	-	60	60	20	25/25

RHPDZT090ADH		No Heat	-----	-----	20	25/25	-----	-----	20	25/25
DD100DNV		1	9.9	33.77	11.9	35	40/40	-----	15	20
DD150DNV		1	14.4	49.13	17.3	42	45/45	-----	25	20
DD200DNV		2	19.8	67.55	23.8	50	60/60	-----	30	20
DD300DNV		2	28.8	98.25	34.6	63	70/70	-----	44	45
DD400DNV		2	39.6	135.10	47.6	80	90/90	-----	60	60
RHPDZT102ADF		No Heat	-----	-----	23	30/30	-----	-----	23	30/30
DD100DNV		1	9.9	33.77	11.9	37	40/45	-----	15	23
DD150DNV		1	14.4	49.13	17.3	44	50/50	-----	22	23
DD200DNV		2	19.8	67.55	23.8	52	60/60	-----	30	23
DD300DNV		2	28.8	98.25	34.6	66	70/70	-----	44	45
DD400DNV		2	39.6	135.10	47.6	82	90/90	-----	60	60
RHPDZT102ADG		No Heat	-----	-----	24	30/35	-----	-----	24	30/35
DD100DNV		1	9.9	33.77	11.9	38	40/45	-----	15	24
DD150DNV		1	14.4	49.13	17.3	45	50/50	-----	22	24
DD200DNV		2	19.8	67.55	23.8	53	60/60	-----	30	24
DD300DNV		2	28.8	98.25	34.6	67	70/70	-----	44	45
DD400DNV		2	39.6	135.10	47.6	83	90/90	-----	60	60
RHPDZT102ADH		No Heat	-----	-----	25	30/35	-----	-----	25	30/35
DD100DNV		1	9.9	33.77	11.9	40	45/45	-----	15	25
DD150DNV		1	14.4	49.13	17.3	47	50/50	-----	22	25
DD200DNV		2	19.8	67.55	23.8	55	60/60	-----	30	25
DD300DNV		2	28.8	98.25	34.6	68	80/80	-----	44	45
DD400DNV		2	39.6	135.10	47.6	85	90/90	-----	60	60
RHPDZT120ADF		No Heat	-----	-----	26	30/40	-----	-----	26	30/40
DD100DNV		1	9.9	33.77	11.9	41	45/50	-----	15	26
DD150DNV		1	14.4	49.13	17.3	48	50/50	-----	22	26
DD200DNV		2	19.8	67.55	23.8	56	60/60	-----	30	26
DD300DNV		2	28.8	98.25	34.6	69	80/80	-----	44	45
DD400DNV		2	39.6	135.10	47.6	85	90/90	-----	60	60
RHPDZT120ADG		No Heat	-----	-----	27	35/40	-----	-----	27	35/40
DD100DNV		1	9.9	33.77	11.9	42	45/50	-----	15	27
DD150DNV		1	14.4	49.13	17.3	49	60/60	-----	22	25
DD200DNV		2	19.8	67.55	23.8	57	60/60	-----	30	27
DD300DNV		2	28.8	98.25	34.6	70	80/80	-----	44	45
DD400DNV		2	39.6	135.10	47.6	87	90/90	-----	60	27
RHPDZT120ADH		No Heat	-----	-----	28	35/40	-----	-----	28	35/40
DD100DNV		1	9.9	33.77	11.9	43	45/50	-----	15	28
DD150DNV		1	14.4	49.13	17.3	50	60/60	-----	22	28
DD200DNV		2	19.8	67.55	23.8	58	60/60	-----	30	28
DD300DNV		2	28.8	98.25	34.6	71	80/80	-----	44	45
DD400DNV		2	39.6	135.10	47.6	87	90/90	-----	60	28

480 VOLT, THREE PHASE; 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

RHEEM Model Number	Single Power Supply for Both Unit and Heater Kit				Heat Pump				Separate Power Supply for Both Unit and Heater Kit			
	RXJJ-Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 480 V	Heater KBTU/Hr @ 480 V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size @ 480 V	Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Unit Min. Ckt. Ampacity @ 480 V	Over Current Protective Device Size @ 480 V	Min. Circuit Ampacity 480V	Over Current Protective Device Size @ 480 V
RHPDZS090AYA	No Heat	----	----	----	14	20/20	----	----	----	----	14	20/20
RHPDZS090AYB	No Heat	----	----	----	15	20/20	----	----	----	----	15	20/20
RHPDZS090AYC	No Heat	----	----	----	15	20/20	----	----	----	----	15	20/20
RHPDZS090AYF	No Heat	----	----	----	14	20/20	----	----	----	----	14	20/20
RHPDZS090AYG	No Heat	----	----	----	15	20/20	----	----	----	----	15	20/20
RHPDZS090AYH	No Heat	----	----	----	15	20/20	----	----	----	----	15	20/20
RHPDZS102AYA	No Heat	----	----	----	17	20/25	----	----	----	----	17	20/25
RHPDZS102AYB	No Heat	----	----	----	18	25/25	----	----	----	----	18	25/25
RHPDZS102AYC	No Heat	----	----	----	18	25/25	----	----	----	----	18	25/25
RHPDZS102AYF	No Heat	----	----	----	17	20/25	----	----	----	----	17	20/25
RHPDZS102AYG	No Heat	----	----	----	18	25/25	----	----	----	----	18	25/25
RHPDZS102AYH	No Heat	----	----	----	18	25/25	----	----	----	----	18	25/25
RHPDZS120AYA	No Heat	----	----	----	19	25/25	----	----	----	----	19	25/25
RHPDZS120AYB	No Heat	----	----	----	20	25/30	----	----	----	----	20	25/30
RHPDZS120AYC	No Heat	----	----	----	20	25/30	----	----	----	----	20	25/30
RHPDZS120AYF	No Heat	----	----	----	19	25/25	----	----	----	----	19	25/25
RHPDZS120AYH	No Heat	----	----	----	20	25/30	----	----	----	----	20	25/30
RHPDZT090AYF	No Heat	----	----	----	14	20/20	----	----	----	----	14	20/20
RHPDZT090AYG	No Heat	----	----	----	15	20/20	----	----	----	----	15	20/20
RHPDZT090AYH	No Heat	----	----	----	15	20/20	----	----	----	----	15	20/20

TROUBLESHOOTING CHART

▲ WARNING

DISCONNECT ALL POWER TO UNIT BEFORE SERVICING. CONTACTOR MAY BREAK ONLY ONE SIDE. FAILURE TO SHUT OFF POWER CAN CAUSE ELECTRICAL SHOCK RESULTING IN PERSONAL INJURY OR DEATH.

SYMPTOM	POSSIBLE CAUSE	REMEDY
Unit will not run	<ul style="list-style-type: none"> • Power off or loose electrical connection • Thermostat out of calibration-set too high • Defective contactor • Blown fuses • Transformer defective • High pressure control open (if provided) • Interconnecting low voltage wiring damaged 	<ul style="list-style-type: none"> • Check for correct voltage at compressor contactor in control box • Reset • Check for 24 volts at contactor coil - replace if contacts are open • Replace fuses • Check wiring-replace transformer • Reset-also see high head pressure remedy- • Replace thermostat wiring
Condenser fan runs, compressor doesn't	<ul style="list-style-type: none"> • Run capacitor defective (single phase only) • Loose connection • Compressor stuck, grounded or open motor winding • Open internal overload. • Low voltage condition 	<ul style="list-style-type: none"> • Replace • Check for correct voltage at compressor - check & tighten all connections • Wait at least 2 hours for overload to reset. If still open, replace the compressor. At compressor terminals, voltage must be within 10% of rating plate volts when unit is operating.
Insufficient cooling	<ul style="list-style-type: none"> • Improperly sized unit • Improper airflow • Incorrect refrigerant charge • Air, non-condensables or moisture in system • Incorrect voltage 	<ul style="list-style-type: none"> • Recalculate load • Check - should be approximately 400 CFM per ton. • Charge per procedure attached to unit service panel. • Recover refrigerant, evacuate & recharge, add filter drier • At compressor terminals, voltage must be within 10% of rating plate volts when unit is operating.
Compressor short cycles	<ul style="list-style-type: none"> • Incorrect voltage • Defective overload protector • Refrigerant undercharge 	<ul style="list-style-type: none"> • At compressor terminals, voltage must be \pm 10% of nameplate marking when unit is operating. • Replace - check for correct voltage • Add refrigerant
Registers sweat	<ul style="list-style-type: none"> • Low evaporator airflow 	<ul style="list-style-type: none"> • Increase speed of blower or reduce restriction - replace air filter
High head-low vapor pressures	<ul style="list-style-type: none"> • Restriction in liquid line, expansion device or filter drier • TXV does not open 	<ul style="list-style-type: none"> • Remove or replace defective component • Replace TXV
High head-high or normal vapor pressure - Cooling mode	<ul style="list-style-type: none"> • Dirty condenser coil • Refrigerant overcharge • Condenser fan not running • Air or non-condensables in system 	<ul style="list-style-type: none"> • Clean coil • Correct system charge • Repair or replace • Recover refrigerant, evacuate & recharge
High head-high or normal vapor pressure - Heating mode	<ul style="list-style-type: none"> • Low air flow - condenser coil • Refrigerant overcharge • Air or non-condensables in system • Dirty condenser coil 	<ul style="list-style-type: none"> • Check filters - correct to speed • Correct system charge • Recover refrigerant, evacuate & recharge • Check filter - clean coil
Low head-high vapor pressures	<ul style="list-style-type: none"> • Defective Compressor valves • TXV won't close 	<ul style="list-style-type: none"> • Replace compressor • Check TXV, replace
Low vapor - cool compressor - iced evaporator coil	<ul style="list-style-type: none"> • Low evaporator airflow • Operating below 65°F outdoors • Moisture in system • TXV limiting refrigerant flow 	<ul style="list-style-type: none"> • Increase speed of blower or reduce restriction - replace air filter • Add Low Ambient Kit • Recover refrigerant - evacuate & recharge - add filter drier • Replace TXV
High vapor pressure	<ul style="list-style-type: none"> • Excessive load • Defective compressor 	<ul style="list-style-type: none"> • Recheck load calculation • Replace
Fluctuating head & vapor pressures	<ul style="list-style-type: none"> • TXV hunting • Air or non-condensables in system 	<ul style="list-style-type: none"> • Check TXV bulb clamp - check air distribution on coil - replace TXV • Recover refrigerant, evacuate & recharge
Gurgle or pulsing noise at expansion device or liquid line	<ul style="list-style-type: none"> • Air or non-condensables in system 	<ul style="list-style-type: none"> • Recover refrigerant, evacuate & recharge

FIGURE 20

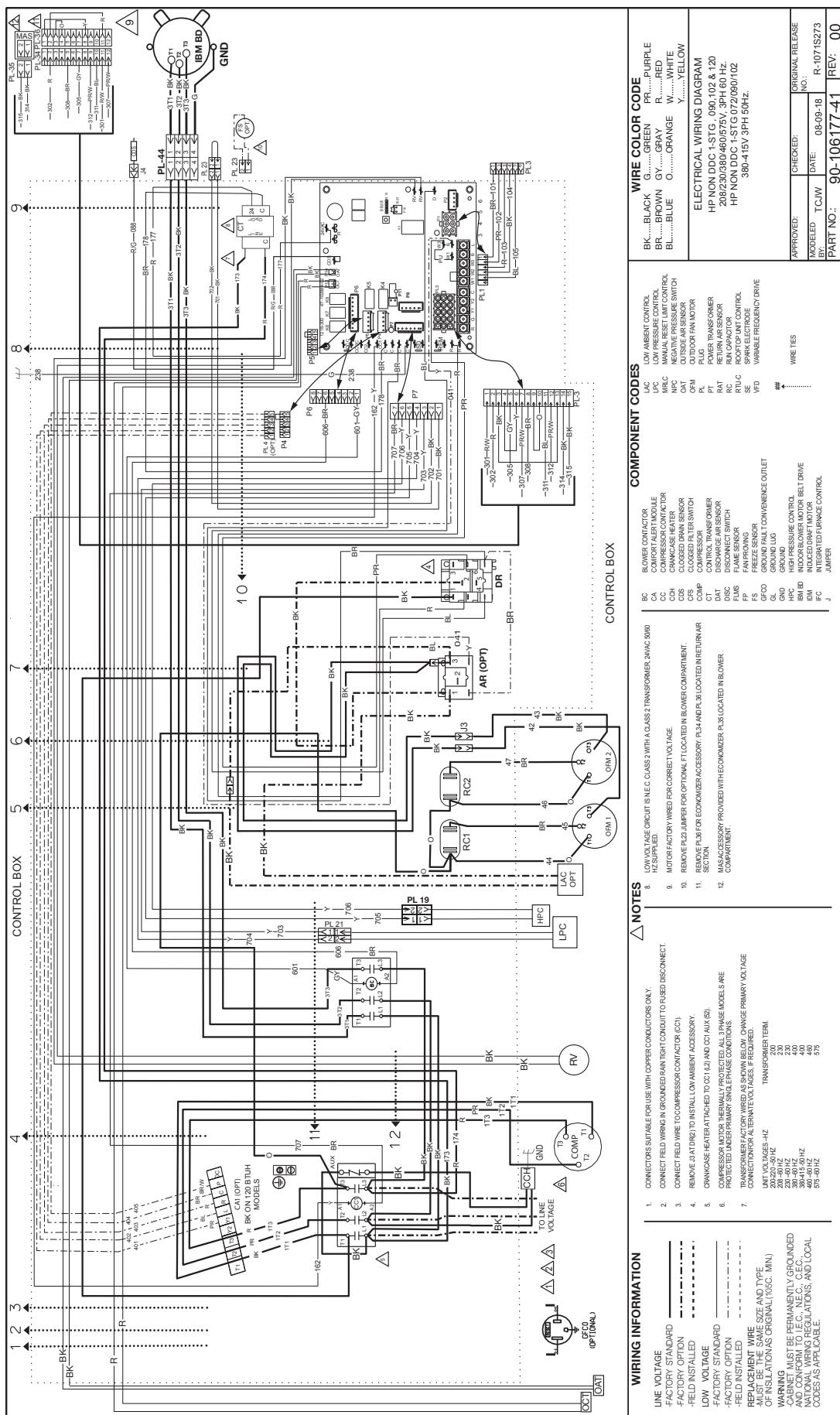


FIGURE 21

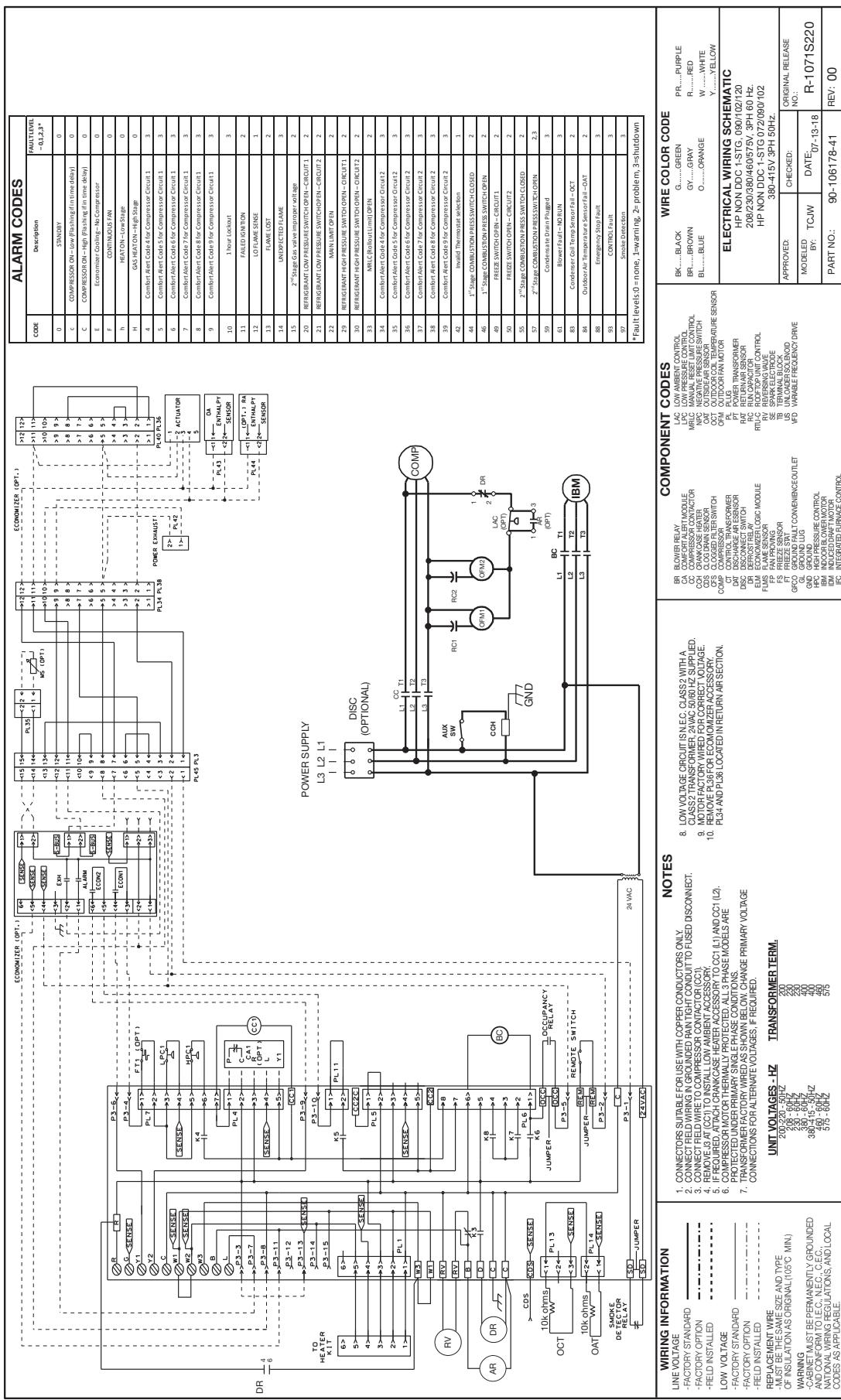


FIGURE 22

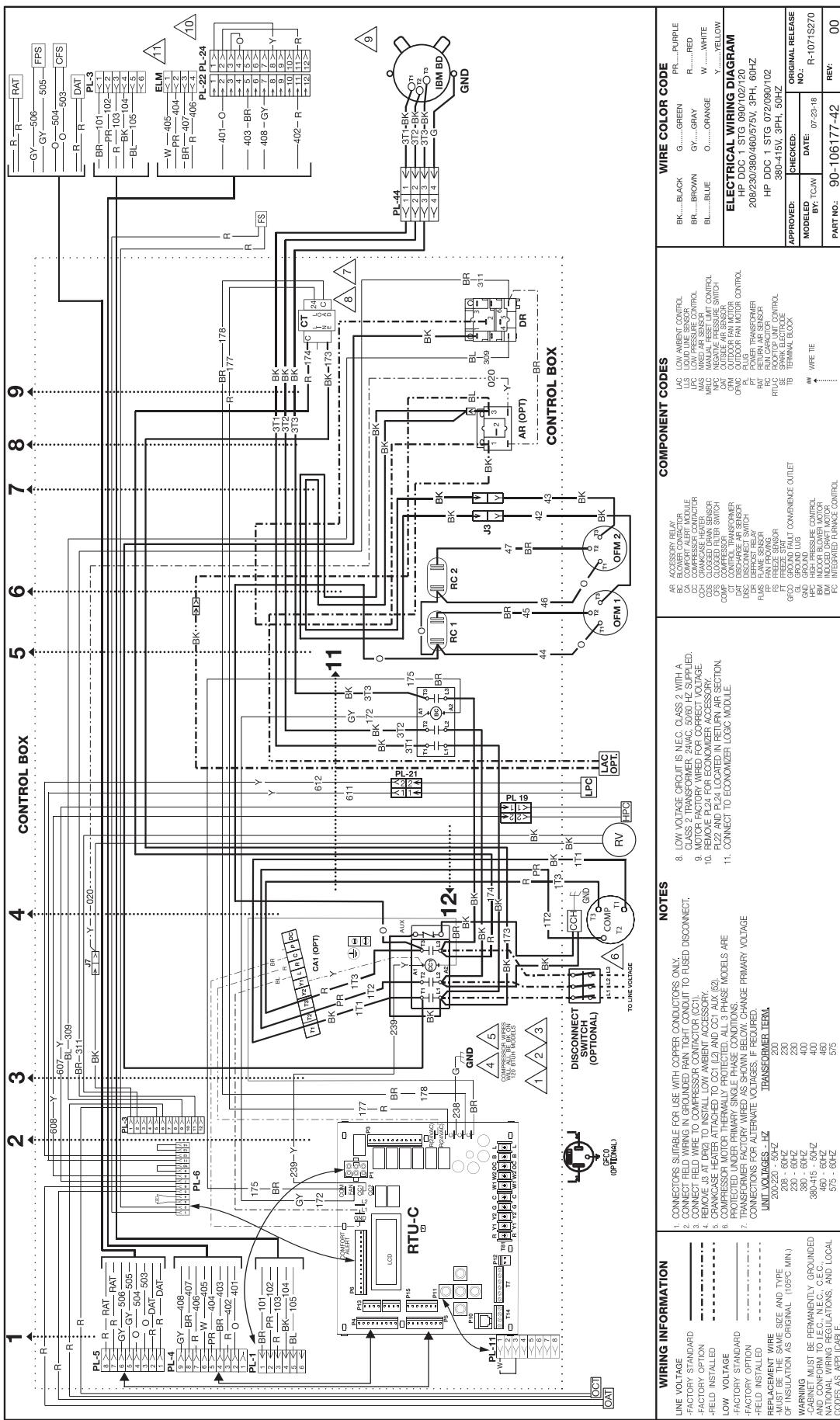


FIGURE 23

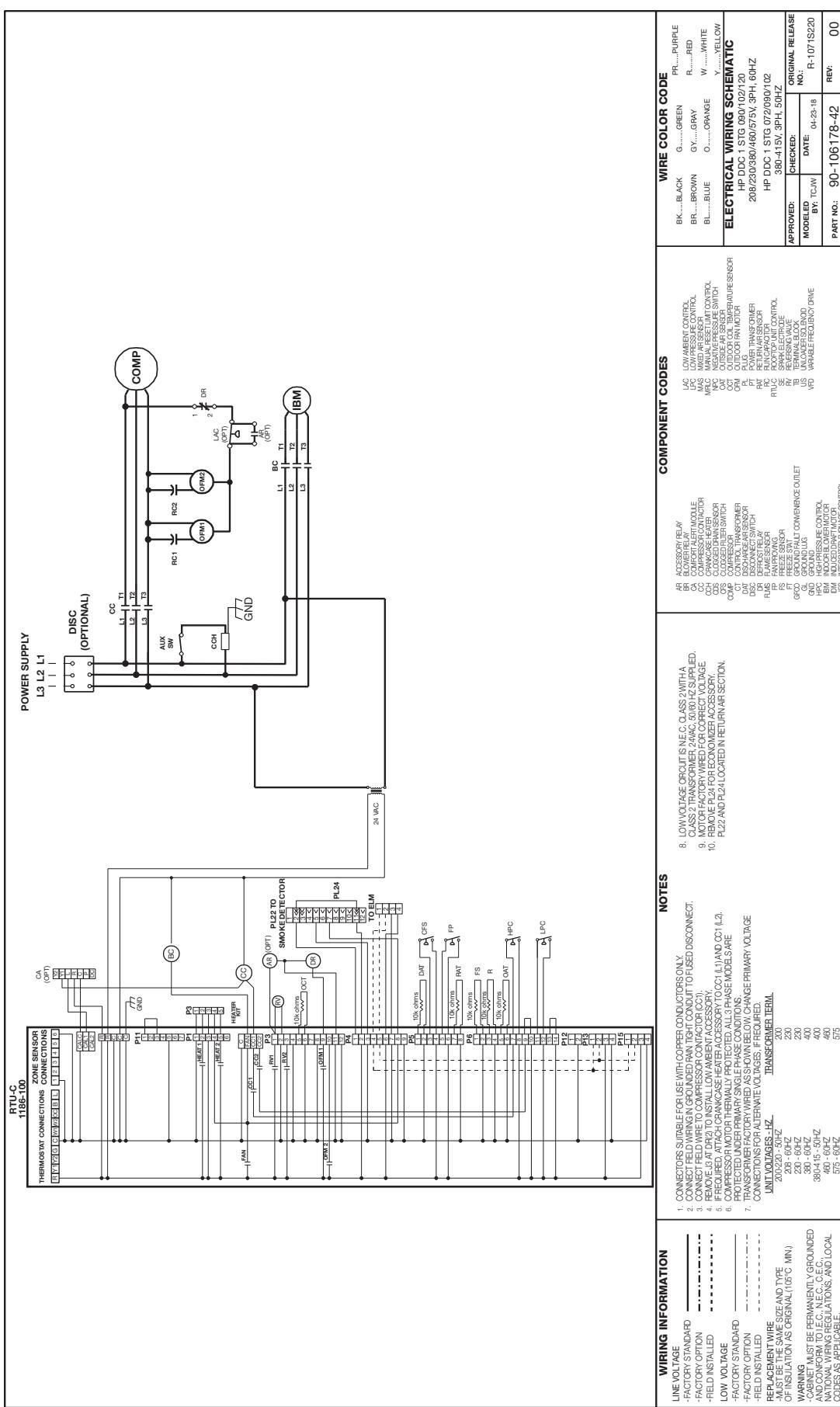


FIGURE 24

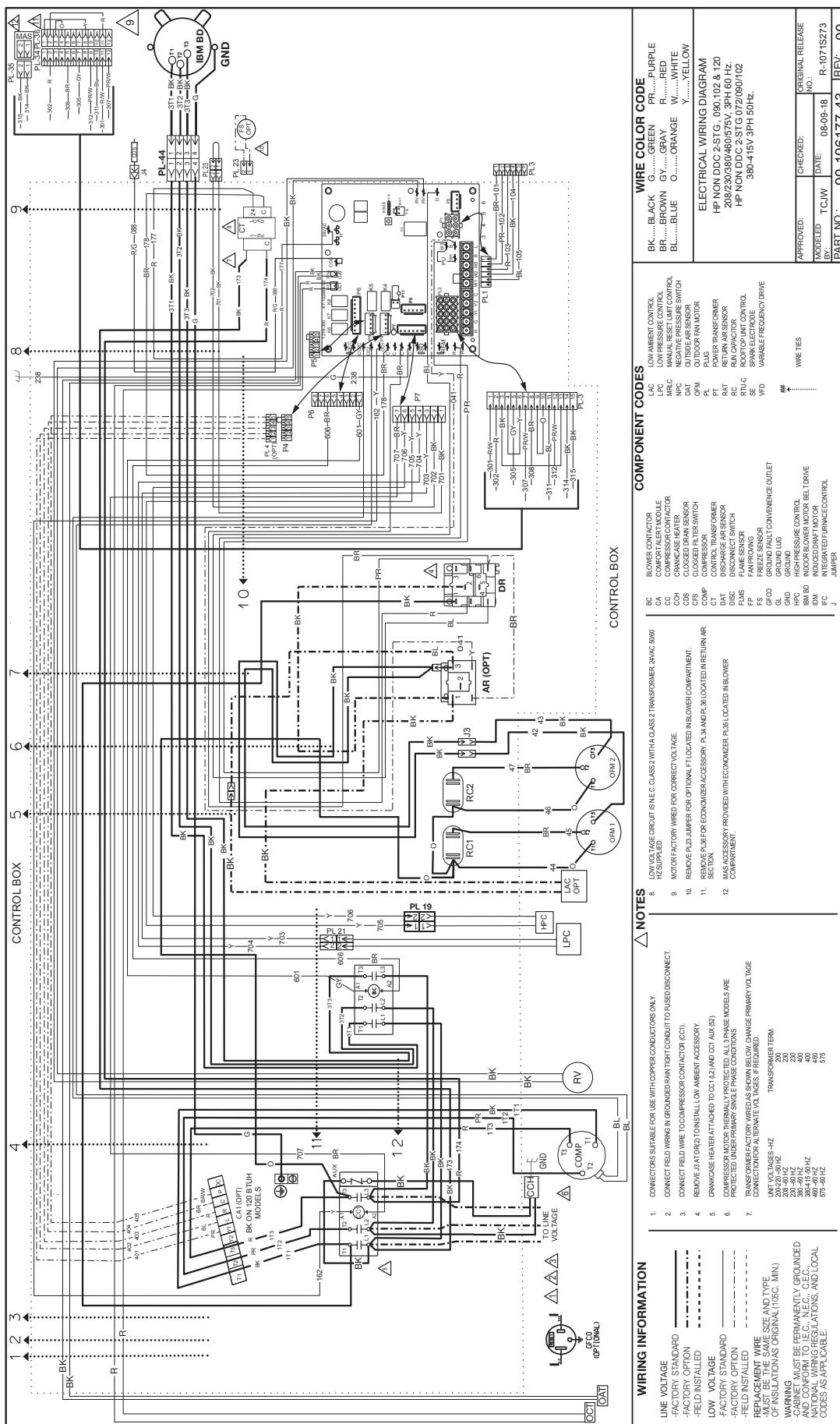


FIGURE 25

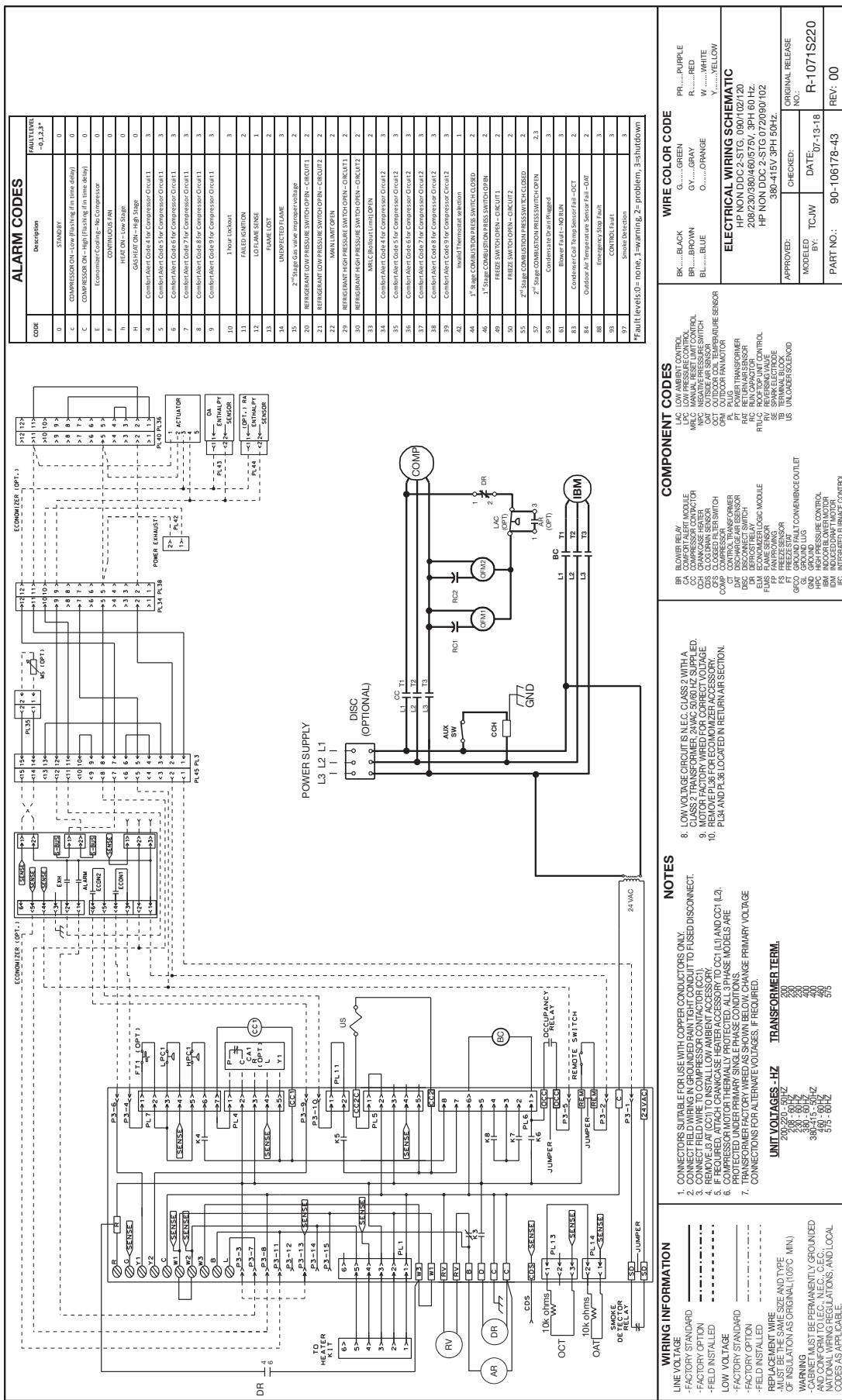


FIGURE 26

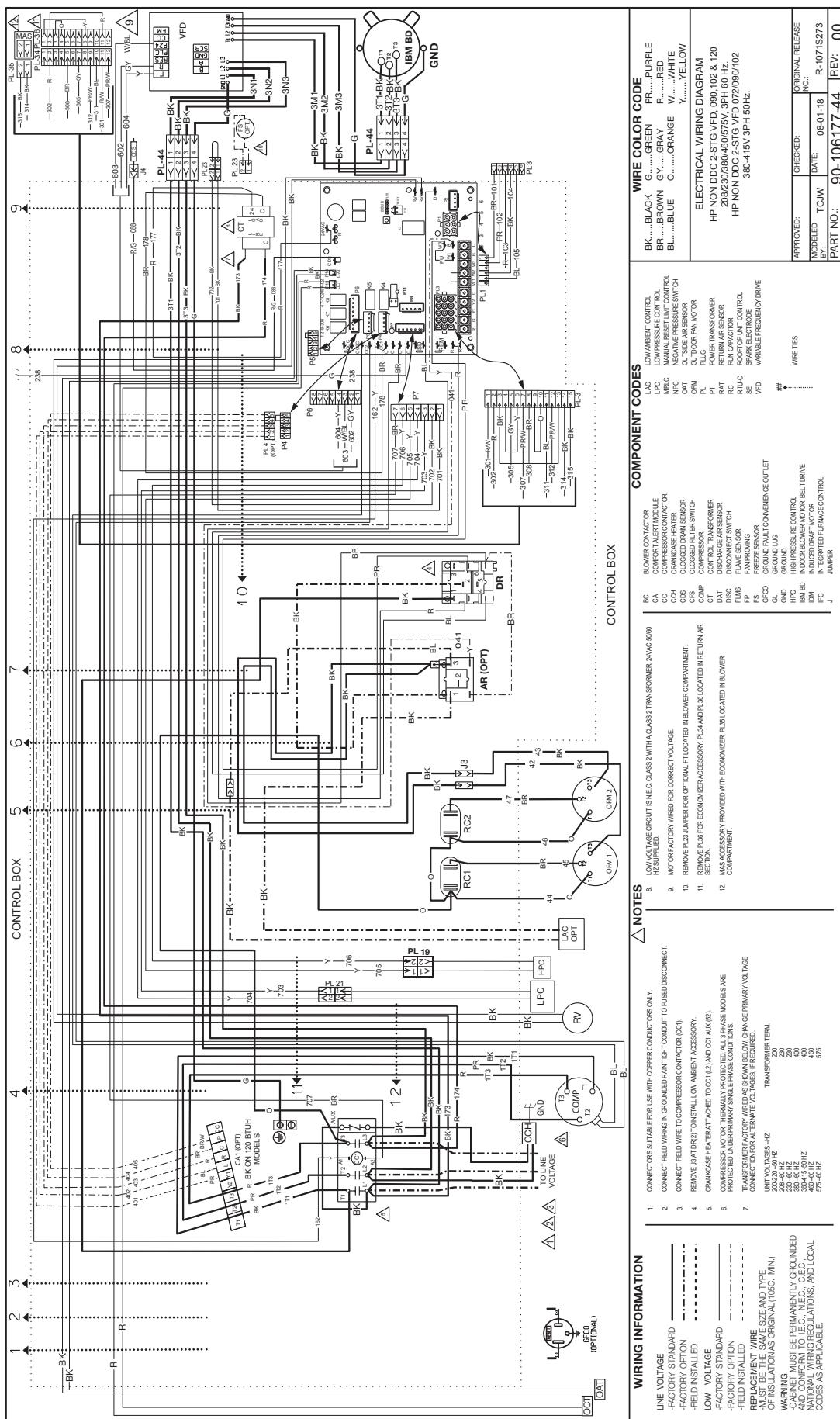


FIGURE 27

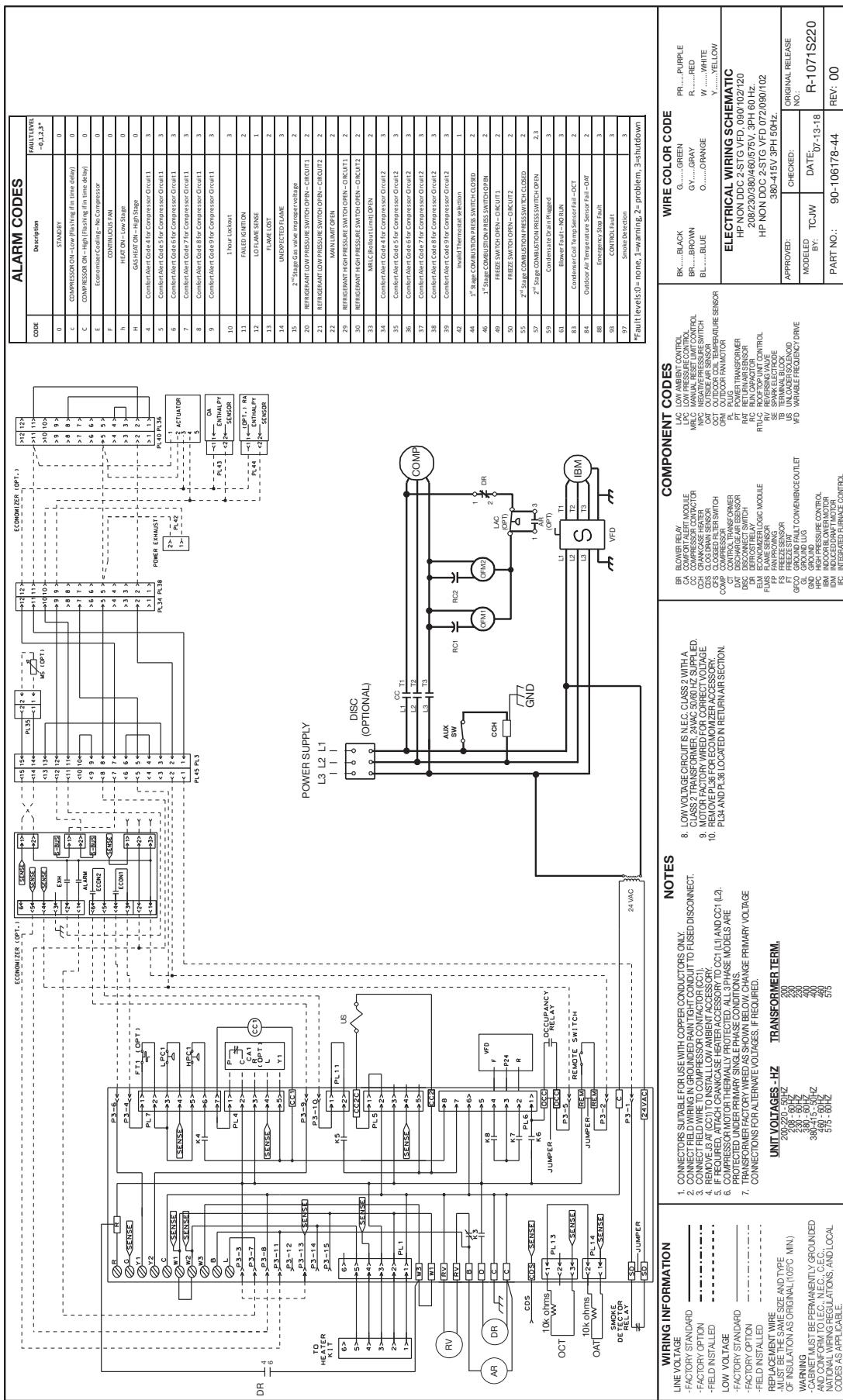


FIGURE 28

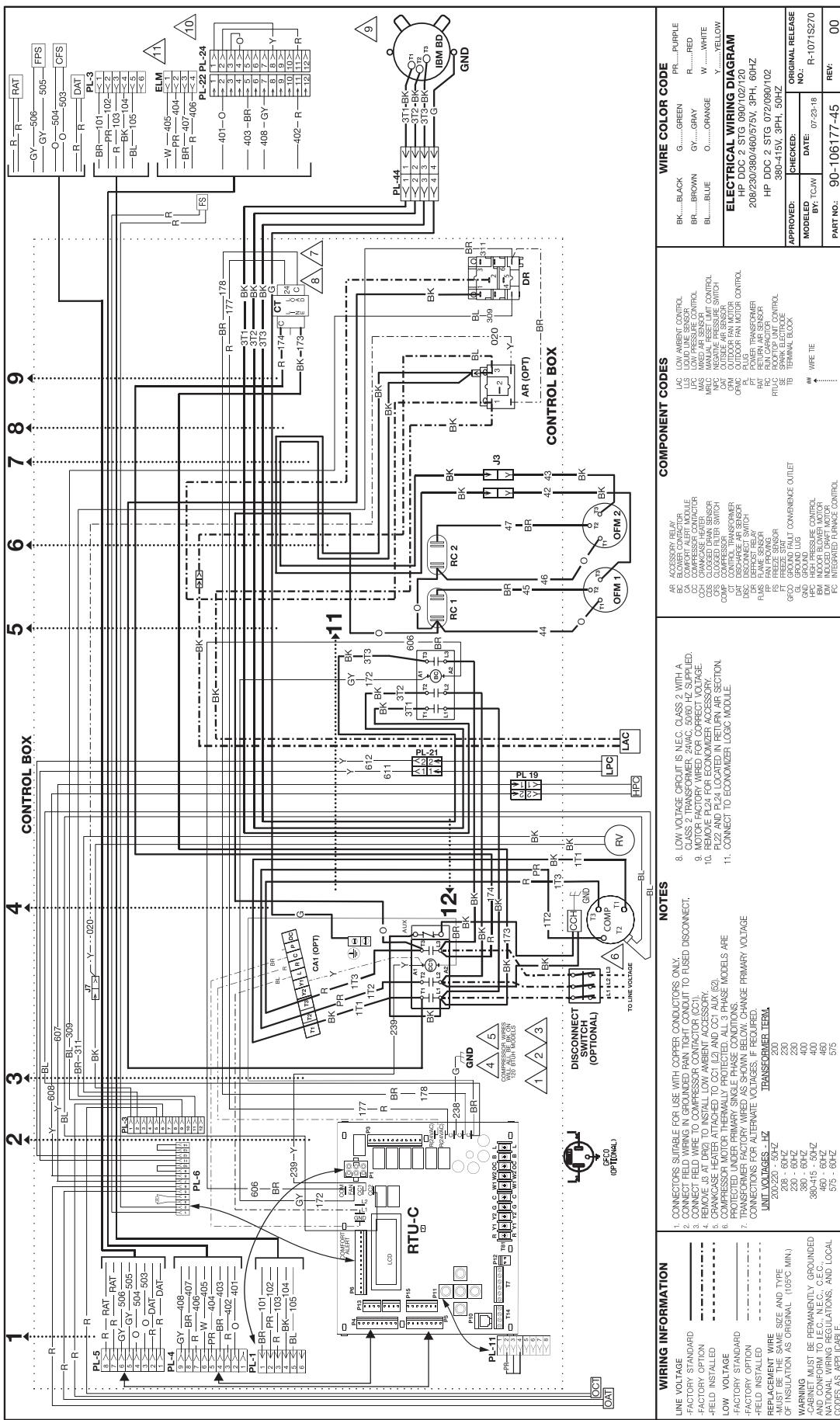


FIGURE 29

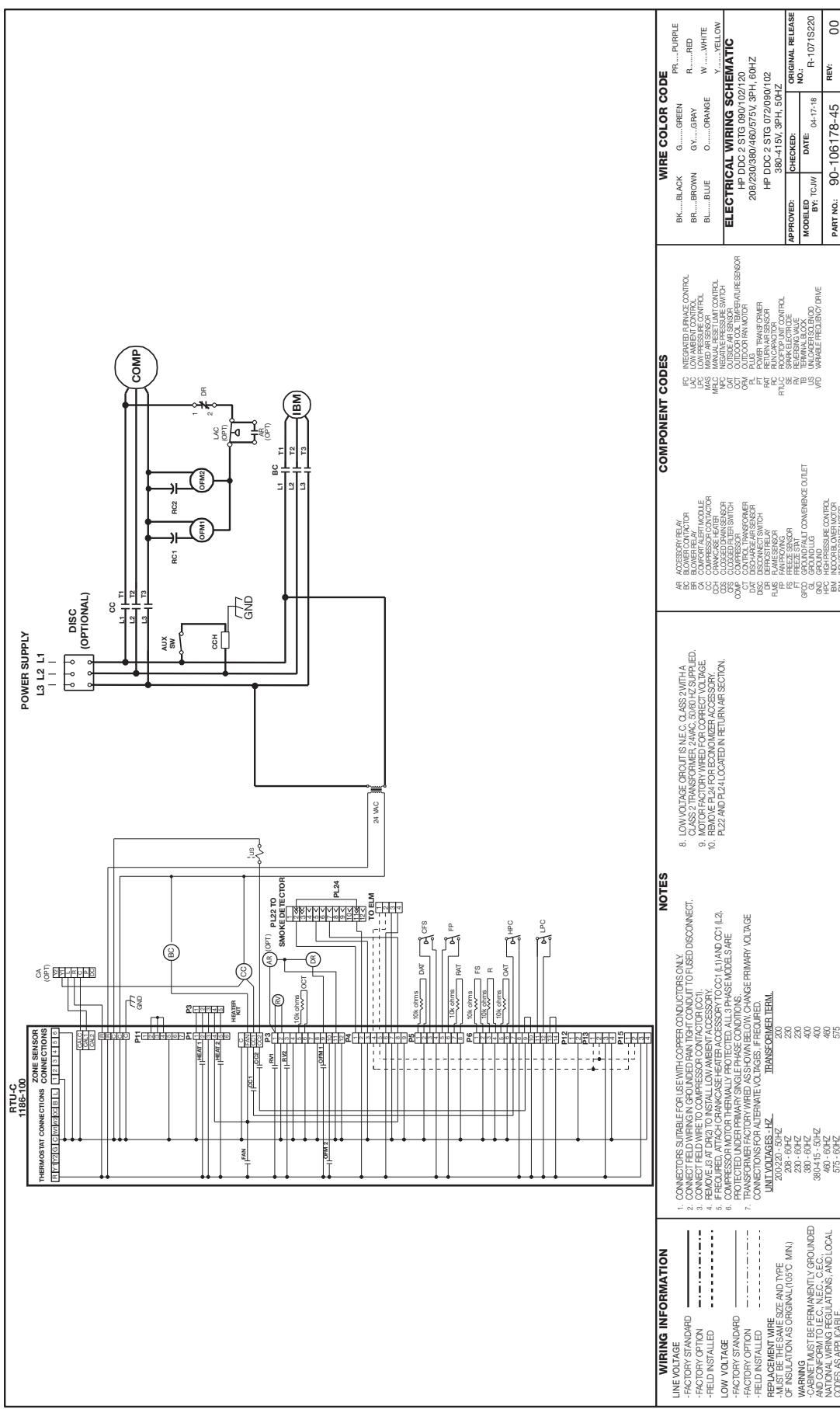


FIGURE 30

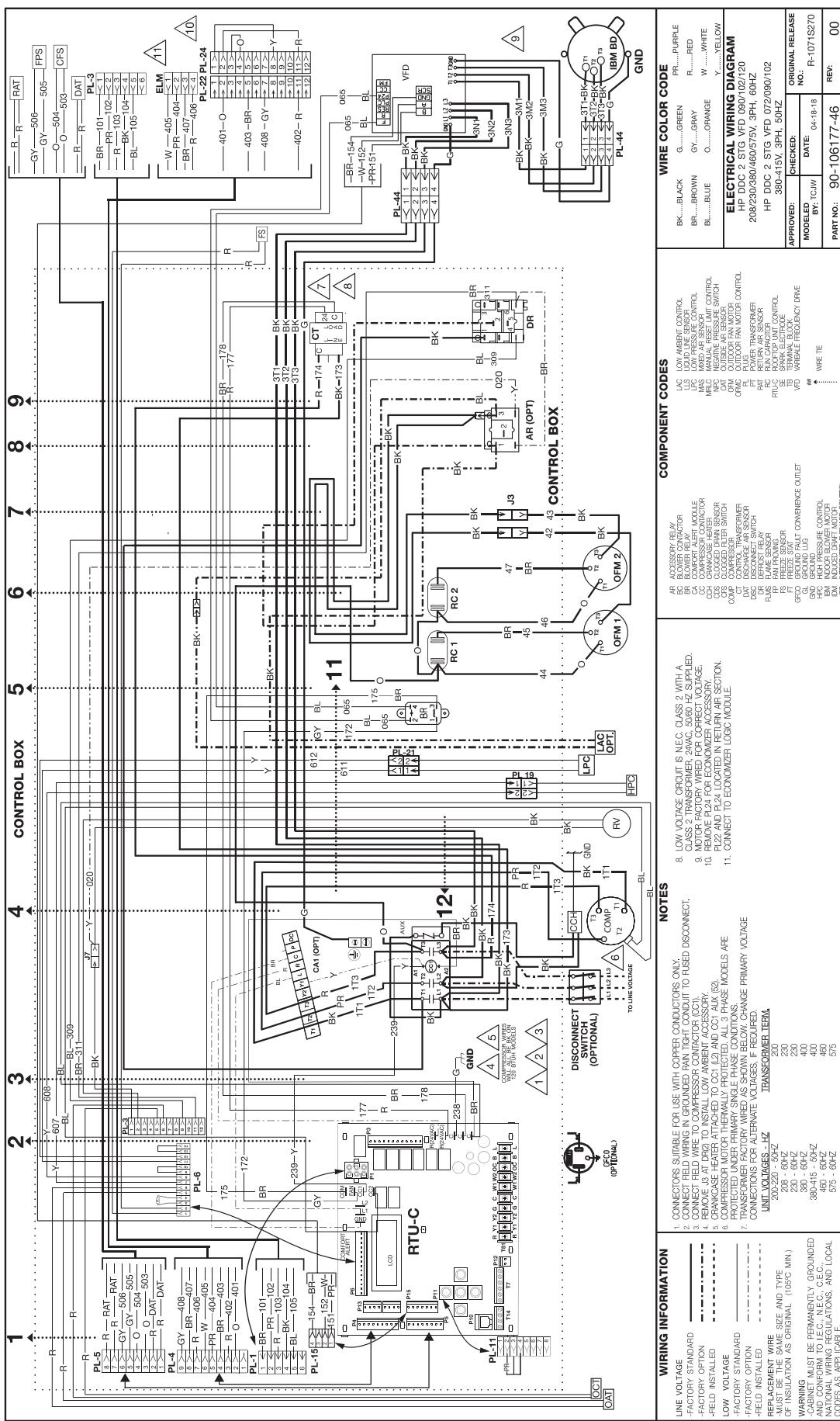
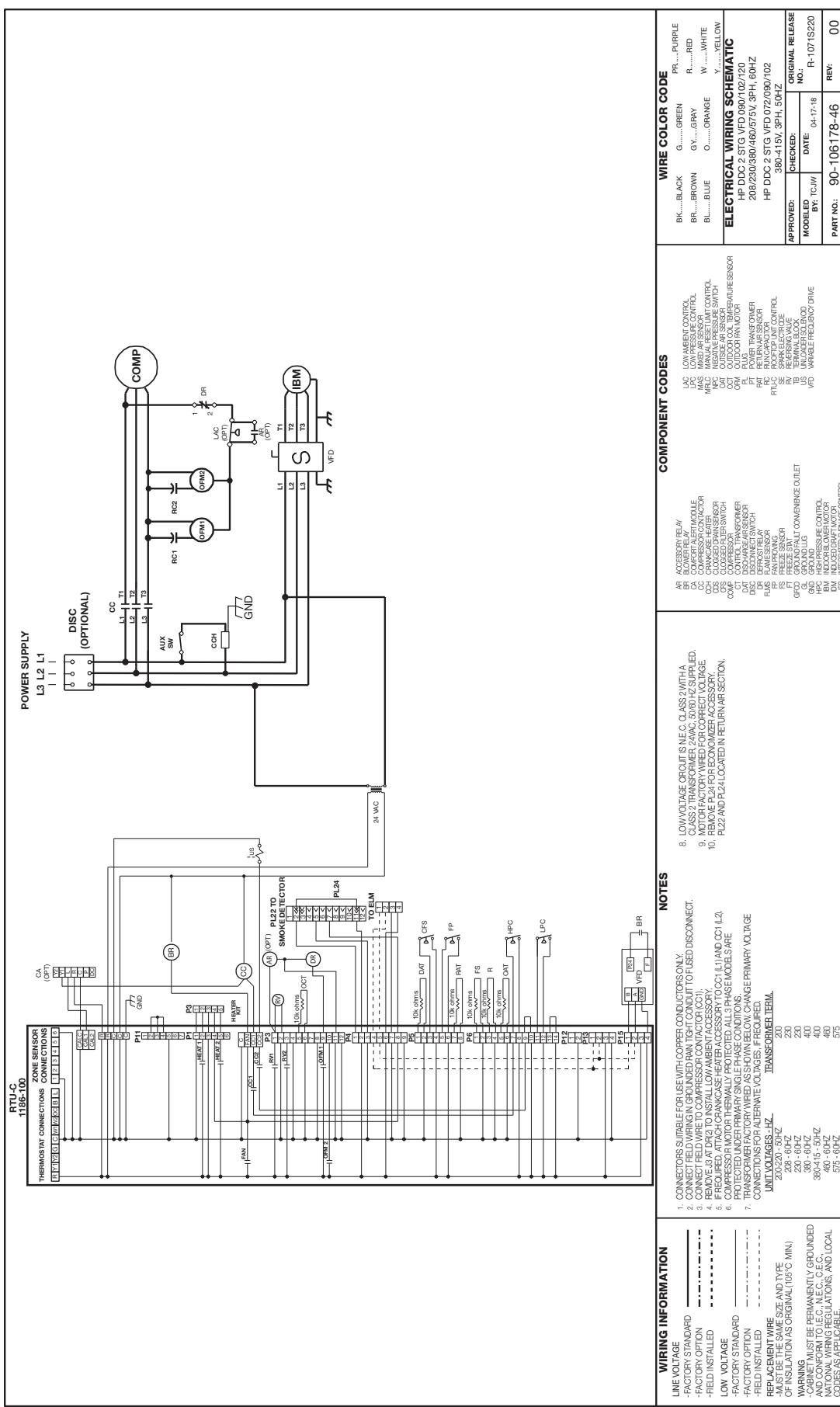


FIGURE 31



CHARGING CHARTS

FIGURE 32

7.5 - TON 2-STAGE CHARGE CHARTS

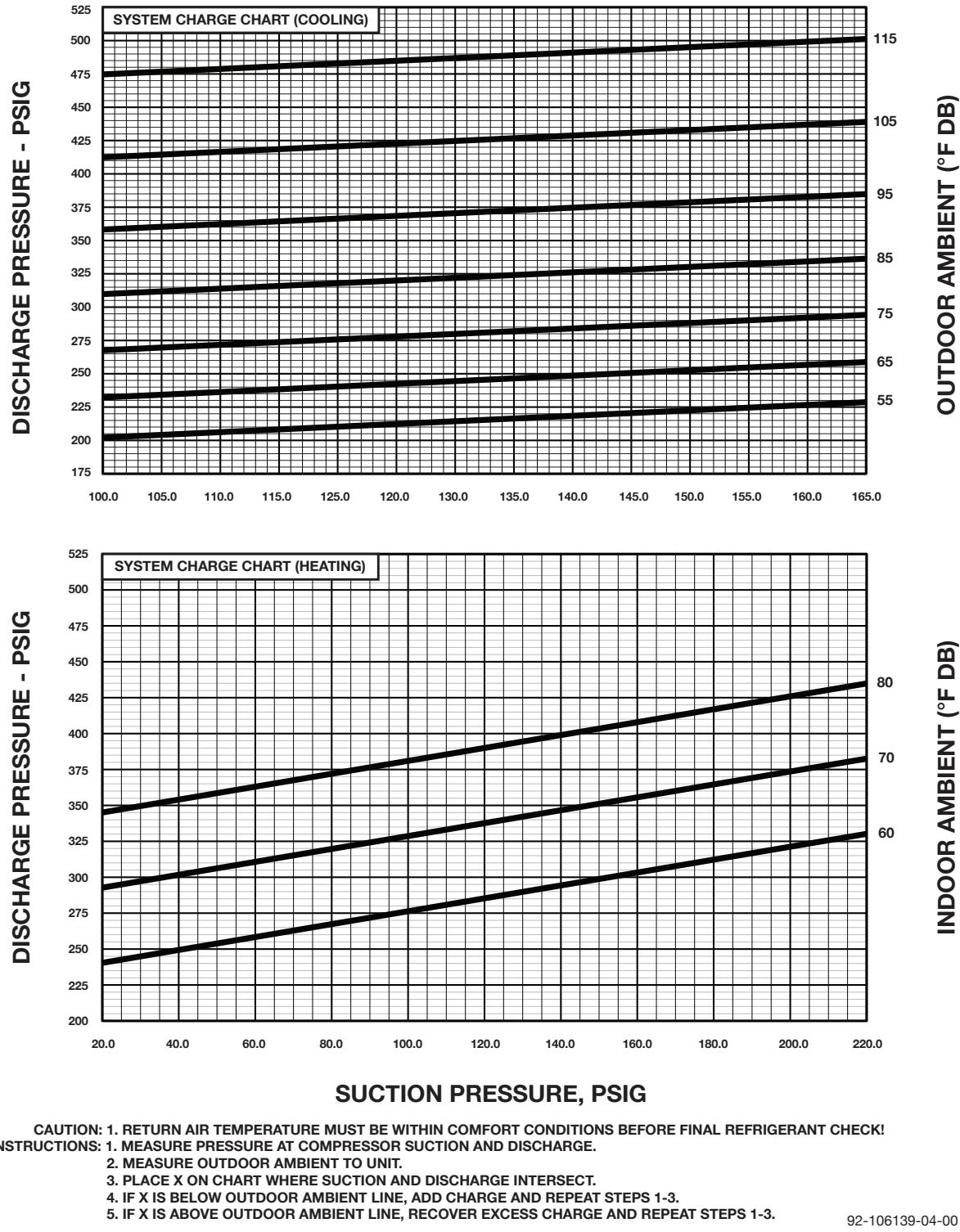


FIGURE 33

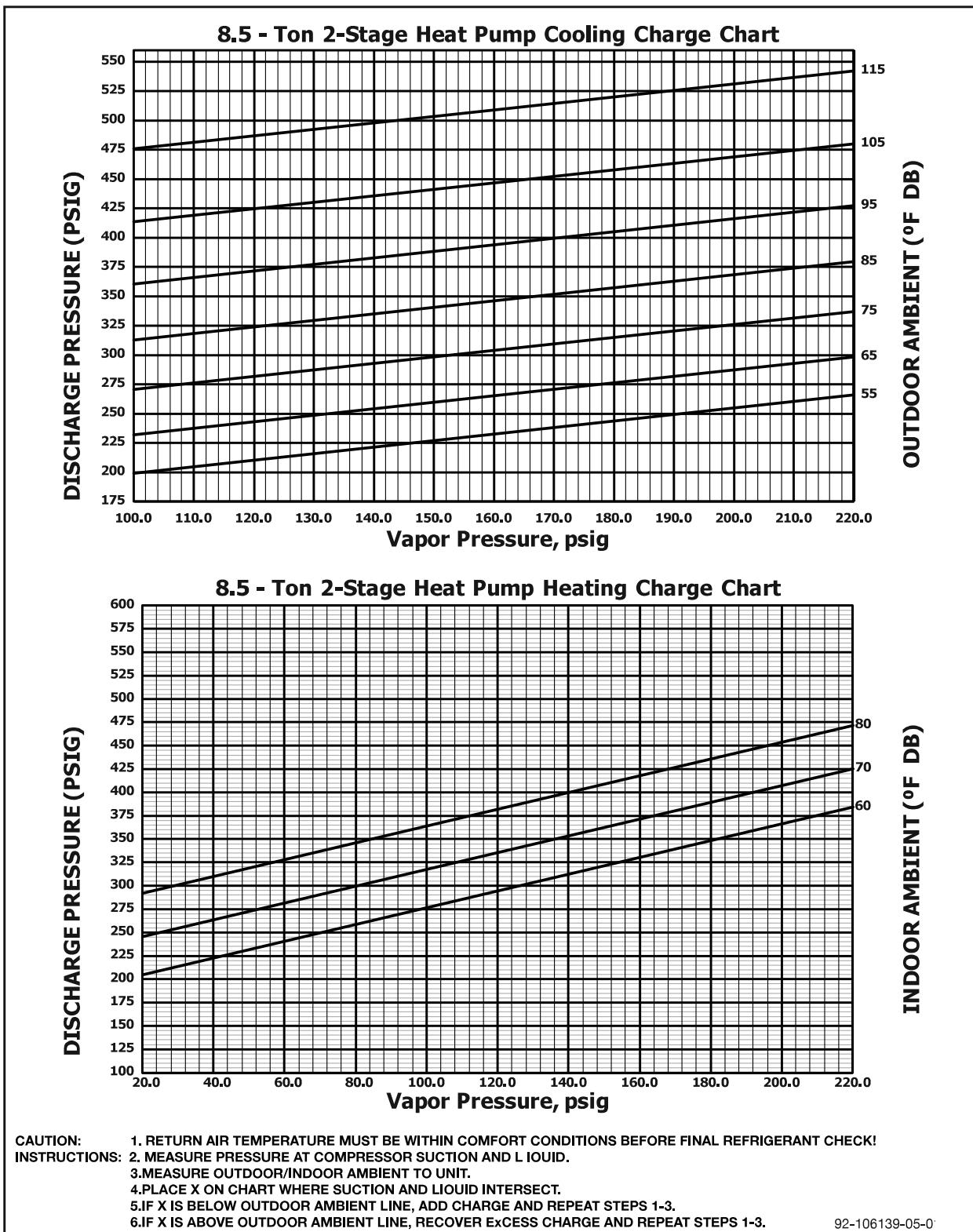
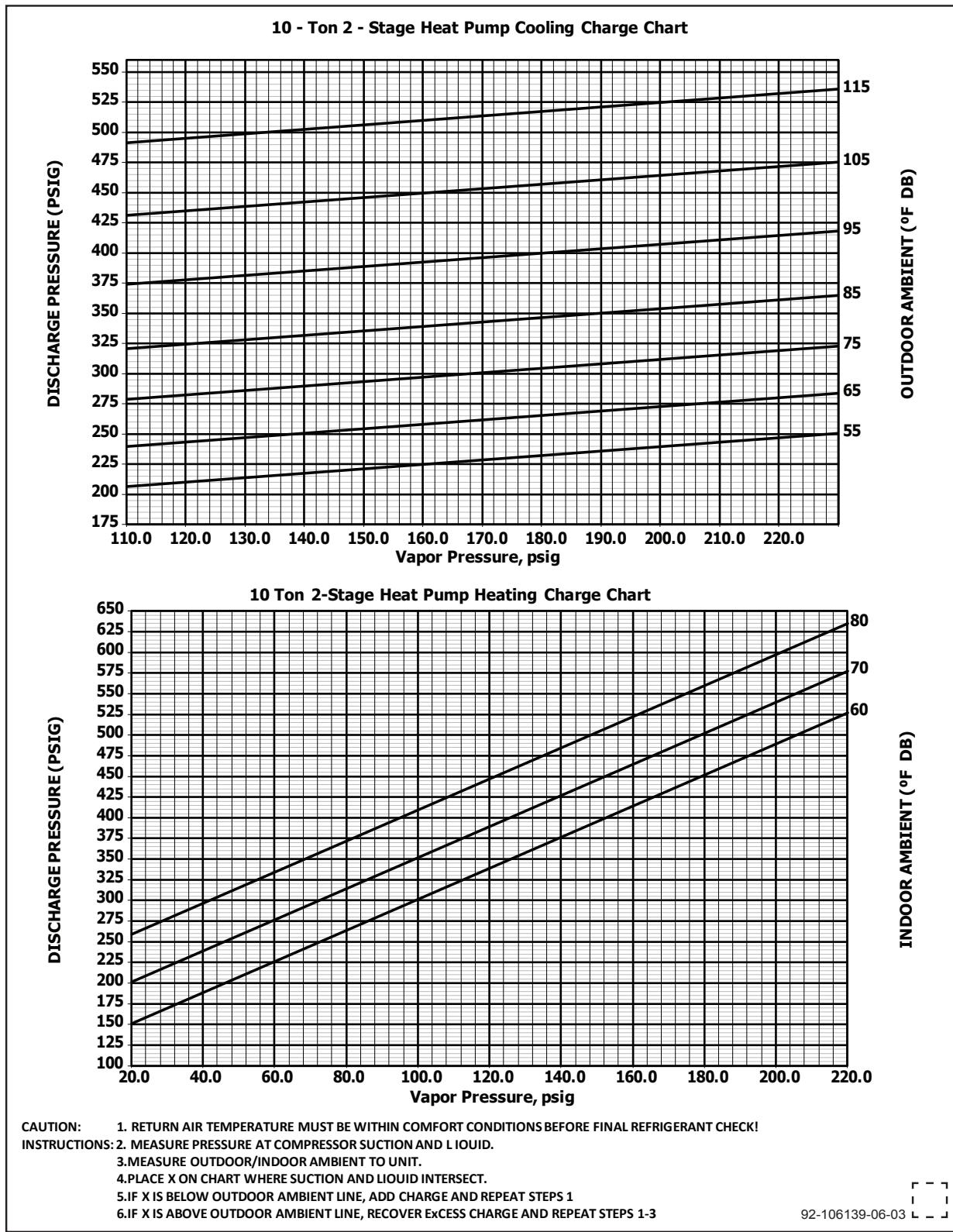


FIGURE 34



In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Heating, Cooling & Water Heating • P.O. Box 17010
Fort Smith, Arkansas 72917 • www.rheem.com

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1
Brampton, Ontario L6Y 0P5