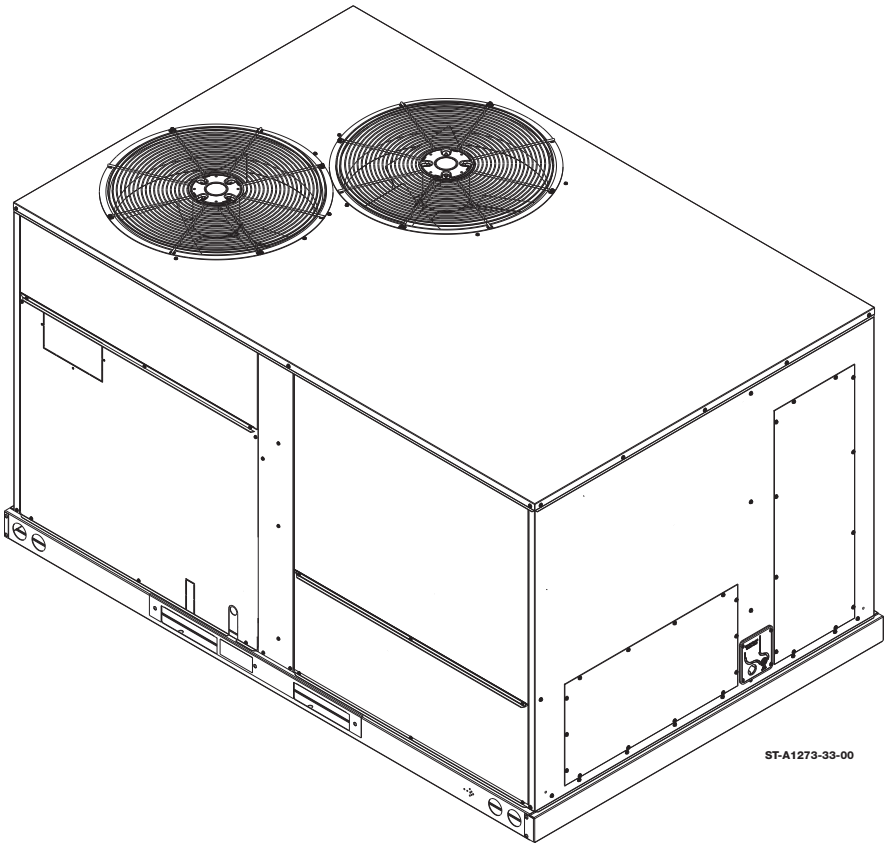
INSTALLATION INSTRUCTIONS

PACKAGE AIR CONDITIONERS FEATURING INDUSTRY STANDARD R410A REFRIGERANT ~~R-410A~~

RACD SERIES 7.5, 8.5, 10.0 AND 12.5 TON [26.4, 29.9, 35.2 AND 44.0 kW] 60 HZ MODELS



ST-A1273-33-00

c UL us LISTED

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Large AC
AHRI Standard 340/360
Certification applies only when the complete system is listed with AHRI.

Accredited by the RvA
ABS Quality Evaluations, Inc. Management System Certification
ANAB ACCREDITED
ISO 9001:2015
Certificate Number: 30164

⚠ 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

TABLE OF CONTENTS

⚠ NOTICE

BREAK-IN PERIOD

PRIOR TO AGENCY TESTING, RUN THE COMPRESSOR FOR 16 HOURS AT 115ºF OUTDOOR AMBIENT TEMPERATURE AND 80º DRY BULB/75º 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.

⚠ 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.

II. INTRODUCTION

This booklet contains the installation and operating instructions for your air conditioner. 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 Air Conditioners are available without heat or with 10, 15, 20, 30, or 40 kW electric heat. Cooling capacities of 7.5, 8.5, 10 or 12.5 nominal tons of cooling 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 typical unit includes a hermetically-sealed refrigerating system (consisting of a compressor, condenser coil, evaporator coil with thermal expansion valve), a circulation air blower, a condenser fan, and all necessary internal electrical wiring. The cooling system of these units are 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. Evaporator Coil / Expansion Device

The expansion device is specifically designed to operate with R-410A. **DO NOT use an R-22 device. The existing evaporator must be replaced with the factory specified evaporator specifically designed for R-410A.**

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

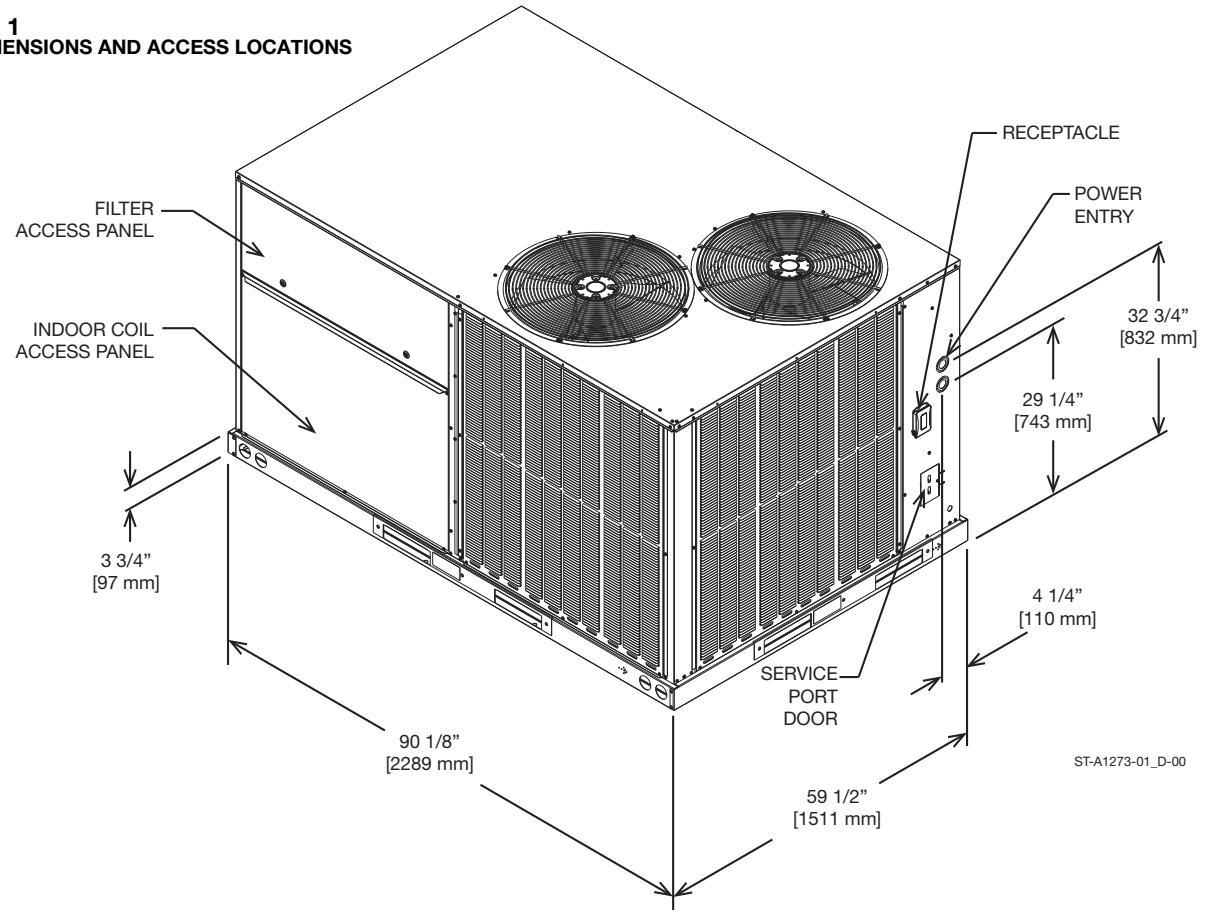


FIGURE 2
UNIT DIMENSIONS AND ACCESS LOCATIONS

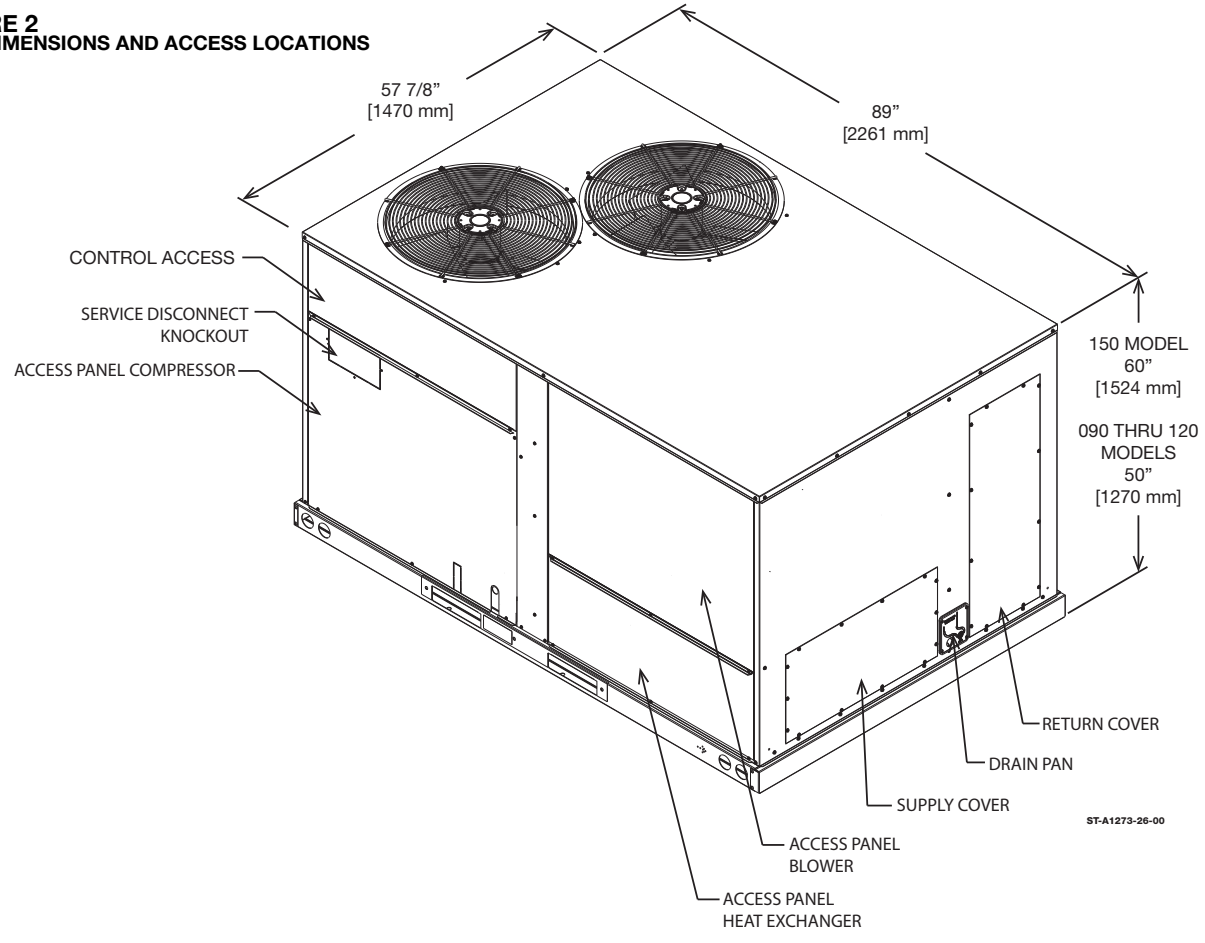


FIGURE 3
BOTTOM VIEW

(VIEW FROM BOTTOM LOOKING UP)

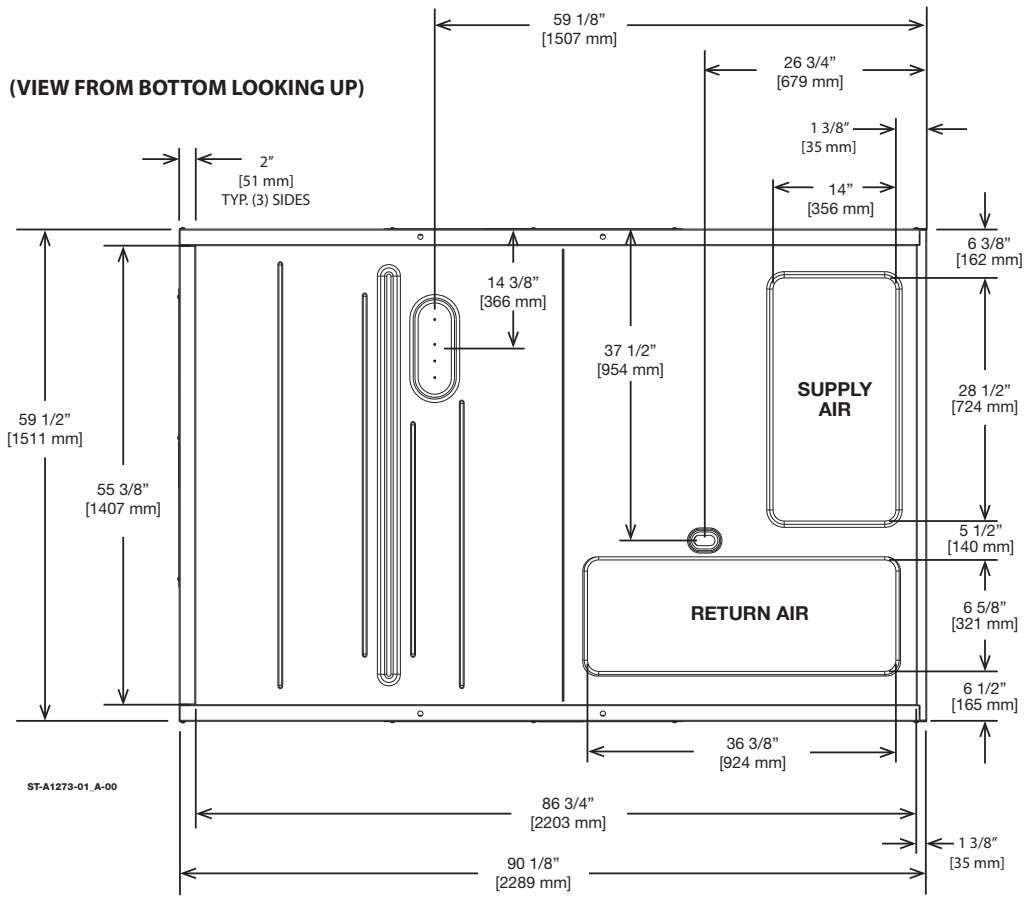
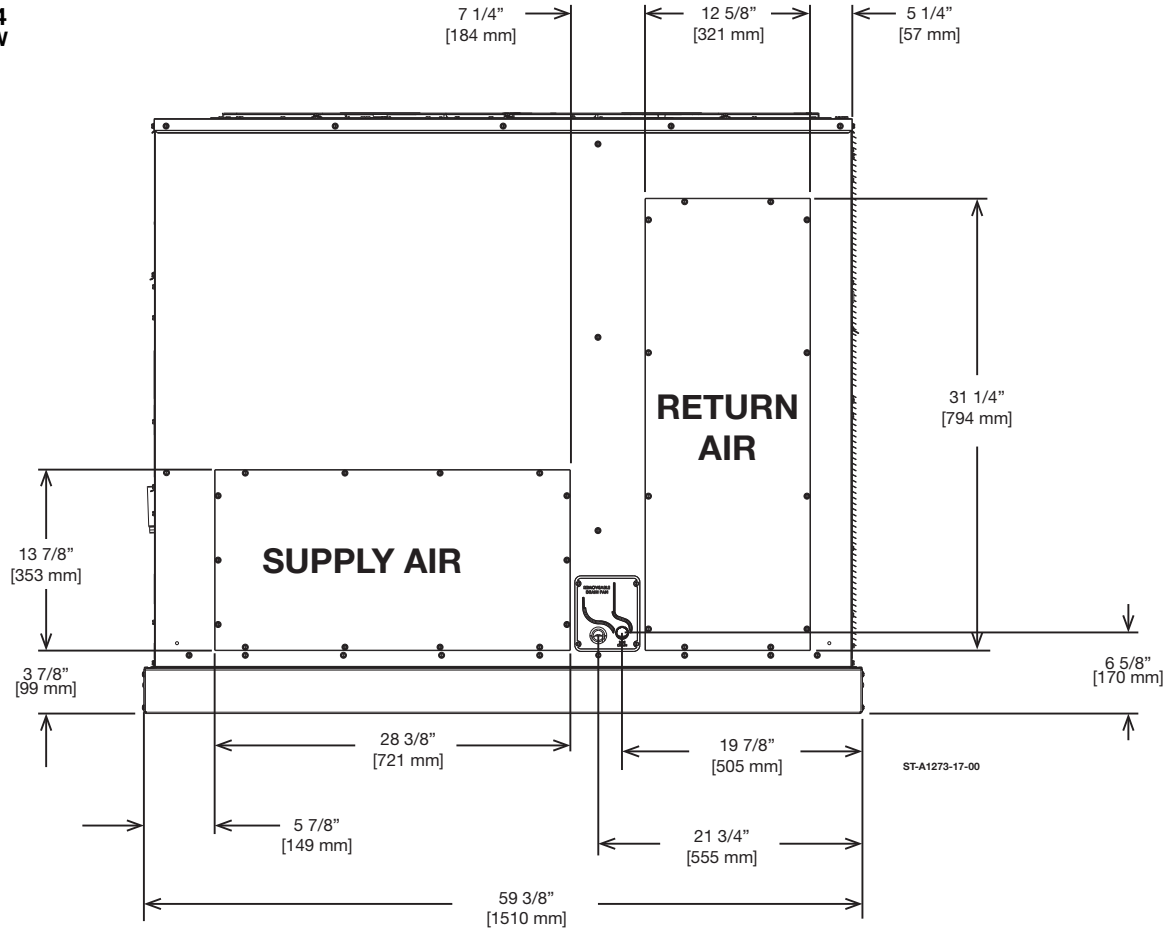


FIGURE 4
REAR VIEW



GENERAL DATA - ACDZR MODELS
NOM. SIZES 7.5-12.5 TON [26.4 - 44.0 kW]

Model RACDZR Series	ZR090A******A	ZR102A******A	ZR120A******A
	ZR series	ZR series	ZR series
Cooling Performance[1]			
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]
EER/SEER[2]	11.2/NA	11.2/NA	11.2/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3200 [1604/1510]	4000/3480 [1888/1642]
AHRI Net Cooling Capacity Btu [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	62,700 [18.37]	68,300 [20.01]	80,600 [23.62]
Net Latent Capacity Btu [kW]	22,300 [6.53]	27,700 [8.12]	33,400 [9.79]
IEER[3]	12.9	12.9	12.9
Net System Power kW	7.53	8.51	9.86
Compressor			
No./Type	1/Scroll	1/Scroll	1/Scroll
No. Stages	1	1	1
Outdoor Sound Rating (dB)[5]	88	88	88
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	0.71 [18]	0.81 [20.6]	1 [25.4]
Face Area sq. ft. [sq. m]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor Coil - Fin Type	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	11 [1.02]	10.9 [1.01]	10.9 [1.01]
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]	8500 [4011]
No. Motors/HP	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP
Motor RPM	820	820	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	Single	Single	Single
No. Motors	1	1	1
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)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
Refrigerant Charge Oz. [g]	100 [2835]	117 [3317]	136 [3856]
Weights			
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]

GENERAL DATA - ACDZS MODELS
NOM. SIZES 7.5-12.5 TON [26.4 - 44.0 kW]

Model RACDZS Series	ZS090A******A	ZS102A******A	ZS120A******A	ZS150A******A
	ZS series	ZS series	ZS series	ZS series
Cooling Performance[1]				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER[2]	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/4150 [2360/1958]
AHRI Net Cooling Capacity Btu [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]	142,000 [41.61]
Net Sensible Capacity Btu [kW]	62,700 [18.37]	68,300 [20.01]	79,600 [23.32]	98,600 [28.89]
Net Latent Capacity Btu [kW]	22,300 [6.53]	27,700 [8.12]	34,400 [10.08]	43,400 [12.72]
IEER[3]	12.9	12.9	12.9	12.4
Net System Power kW	7.35	8.46	9.83	13.69
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
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]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor 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 [25.4]
Face Area sq. ft. [sq. m]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	2 / 18 [7]
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]	1/0.5 [12.7]
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]	8500 [4011]	9000 [4247]
No. Motors/HP	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
Motor RPM	820	820	1075	1100
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 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)2x20x25 [51x508x635]
Refrigerant Charge Oz. [g]	100 [2835]	117 [3317]	136 [3856]	186 [5273]
Weights				
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]	993 [450]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]	1032 [468]

GENERAL DATA - ACDZT MODELS
NOM. SIZES 7.5-12.5 TON [26.4 - 44.0 kW]

Model RACDZT Series	ZT090A******A	ZT102A******A	ZT120A******A	ZT150A******A
	ZT series	ZT series	ZT series	ZT series
Cooling Performance[1]				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER[2]	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/4150 [2360/1958]
AHRI Net Cooling Capacity Btu [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]	142,000 [41.61]
Net Sensible Capacity Btu [kW]	62,700 [18.37]	68,300 [20.01]	79,600 [23.32]	98,600 [28.89]
Net Latent Capacity Btu [kW]	22,300 [6.53]	27,700 [8.12]	34,400 [10.08]	43,400 [12.72]
IEER[3]	14.8	14.8	14.8	14.2
Net System Power kW	7.35	8.46	10.49	13.69
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
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]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
Rows / FPI [FPcm]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
Indoor 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 [25.4]
Face Area sq. ft. [sq. m]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	2 / 18 [7]
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]	1/0.5 [12.7]
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]	8500 [4011]	9000 [4247]
No. Motors/HP	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
Motor RPM	820	820	1075	1100
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 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)2x20x25 [51x508x635]
Refrigerant Charge Oz. [g]	100 [2835]	117 [3317]	136 [3856]	186 [5273]
Weights				
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]	993 [450]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]	1032 [468]

ELECTRICAL DATA - ACDZR

ELECTRICAL DATA - -ACDZR SERIES					
		090ACA	090ACB 090ACC	090ADA	090ADB 090ADC
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	Hz	60	60	60	60
	Minimum Circuit Ampacity	41	43	21	23
	Minimum Overcurrent Protection Device Size	50	50	25	30
	Maximum Overcurrent Protection Device Size	60	60	30	35
Compressor Motor	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	RPM	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7
	Amps (RLA), Comp. 1	25	25	12.8	12.8
	Amps (LRA), Comp. 1	164	164	100	100
	HP, Compressor 2				
	Amps (RLA), Comp. 2				
	Amps (LRA), Comp. 2				
Condenser Motor	No.	2	2	2	2
	Volts	208/230	208/230	460	460
	Phase	1	1	1	1
	HP	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	0.8	0.8
	Amps (LRA, each)	2.3	2.3	1.4	1.4
Evaporator Fan	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	HP	2	3	2	3
	Amps (FLA, each)	6.6	9.1	3.3	4.6
	Amps (LRA, each)	47	74.5	22.5	38.1

ELECTRICAL DATA - ACDZR

ELECTRICAL DATA - -ACDZR SERIES							
		102ACA	102ACB	102ACC	102ADA	102ADB	102ADC
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	44	46	49	22	23	24
	Minimum Overcurrent Protection Device Size	60	60	60	25	30	30
	Maximum Overcurrent Protection Device Size	70	70	70	30	35	35
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	209/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	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
	Amps (RLA), Comp. 1	27.6	27.6	27.6	12.8	12.8	12.8
	Amps (LRA), Comp. 1	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
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	1.2	0.8	0.8	0.8
	Amps (LRA, each)	2.3	2.3	2.3	1.4	1.4	1.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7.1	9.1	12	3.5	4.6	6
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1

ELECTRICAL DATA - ACDZR

ELECTRICAL DATA - -ACDZR SERIES							
		120ACA	120ACB	120ACC	120ADA	120ADB	120ADC
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	48	51	53	26	27	28
	Minimum Overcurrent Protection Device Size	60	60	60	30	30	35
	Maximum Overcurrent Protection Device Size	70	70	80	35	40	40
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10
	Amps (RLA), Comp. 1	28.2	28.2	28.2	14.7	14.7	14.7
	Amps (LRA), Comp. 1	239	239	239	130	130	130
	HP, Compressor 2						
	Amps (RLA), Comp. 2						
	Amps (LRA), Comp. 2						
Condenser Motor	No.	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4	2.4	2.4	1.4	1.4	1.4
	Amps (LRA, each)	4.7	4.7	4.7	2.4	2.4	2.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7.9	10.1	12	3.9	5	6
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1

ELECTRICAL DATA - ACDZS

ELECTRICAL DATA - -ACDZS SERIES					
		090ACA 090ACF	090ACB 090ACG 090ACH 090ACC	090ADA 090ADF	090ADB 090ADC 090ADG 090ADH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	Hz	60	60	60	60
	Minimum Circuit Ampacity	41	44	17	19
	Minimum Overcurrent Protection Device Size	50	50	20	25
	Maximum Overcurrent Protection Device Size	60	60	25	25
Compressor Motor	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	RPM	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7
	Amps (RLA), Comp. 1	25.3	25.3	9.6	9.6
	Amps (LRA), Comp. 1	184	184	84	84
	HP, Compressor 2				
	Amps (RLA), Comp. 2				
	Amps (LRA), Comp. 2				
Condenser Motor	No.	2	2	2	2
	Volts	208/230	208/230	460	460
	Phase	1	1	1	1
	HP	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	0.8	0.8
	Amps (LRA, each)	2.3	2.3	1.4	1.4
Evaporator Fan	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	HP	2	3	2	3
	Amps (FLA, each)	6.6	9.1	3.2	9.1
	Amps (LRA, each)	22.5	74.5	22.5	38.1

ELECTRICAL DATA - ACDZS

ELECTRICAL DATA - -ACDZS SERIES								
		102ACA 102ACF	102ACB 102ACG	102ACC 102ACH	102ADA 102ADF	102ADB 102ADG	102ADC	102ADH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460	460
	Phase	3	3	3	3	3	3	3
	Hz	60	60	60	60	60	60	60
	Minimum Circuit Ampacity	46	48	51	21	22	24	24
	Minimum Overcurrent Protection Device Size	60	60	60	25	25	30	30
	Maximum Overcurrent Protection Device Size	70	70	70	30	30	35	35
Compressor Motor	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	460
	Phase	3	3	3	3	3	3	3
	RPM	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
	Amps (RLA), Comp. 1	28.8	28.8	28.8	12.5	12.5	12.5	12.5
	Amps (LRA), Comp. 1	191	191	191	100	100	100	100
	HP, Compressor 2							
	Amps (RLA), Comp. 2							
	Amps (LRA), Comp. 2							
Condenser Motor	No.	2	2	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460	460	460
	Phase	1	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	1.2	0.8	0.8	0.8	0.8
	Amps (LRA, each)	2.3	2.3	2.3	1.4	1.4	1.4	1.4
Evaporator Fan	No.	1	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460	460
	Phase	3	3	3	3	3	3	3
	HP	2	3	3	2	3	3	3
	Amps (FLA, each)	7.1	9.1	12	3.5	9.1	9.1	12
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1	38.1

ELECTRICAL DATA - ACDZS

ELECTRICAL DATA - -ACDZS SERIES							
		120ACA 120ACF	120ACB 120ACG	120ACC 120ACH	120ADA 120ADF	120ADB 120ADG	120ADC 120ADH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	54	56	58	26	32	34
	Minimum Overcurrent Protection Device Size	70	70	70	30	40	40
	Maximum Overcurrent Protection Device Size	80	80	90	40	45	45
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10
	Amps (RLA), Comp. 1	32.6	32.6	32.6	14.8	14.8	14.8
	Amps (LRA), Comp. 1	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
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4	2.4	2.4	1.4	1.4	1.4
	Amps (LRA, each)	4.7	4.7	4.7	2.4	2.4	2.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7.9	10.1	12	3.9	10.1	12
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1

ELECTRICAL DATA - ACDZS

ELECTRICAL DATA - -ACDZS SERIES						
		150ACA	150ACB 150ACG	150ACF	150ADA 150ADF	150ADB 150ADG
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	208/230	460	460
	Phase	3	3	3	3	3
	Hz	60	60	60	60	60
	Minimum Circuit Ampacity	51	75	70	34	37
	Minimum Overcurrent Protection Device Size	60	90	80	40	40
	Maximum Overcurrent Protection Device Size	70	90	90	40	45
Compressor Motor	No.	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460
	Phase	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450
	HP, Compressor 1	6	6	6	6	6
	Amps (RLA), Comp. 1	25	25	25	12.8	12.8
	Amps (LRA), Comp. 1	164	164	164	100	100
	HP, Compressor 2	0	0	0	0	0
	Amps (RLA), Comp. 2	25	25	25	12.8	12.8
	Amps (LRA), Comp. 2	164	164	164	100	100
Condenser Motor	No.	2	2	2	2	2
	Volts	208/230	208/230	208/230	460	460
	Phase	1	1	1	1	1
	HP	3/4	3/4	3/4	3/4	3/4
	Amps (FLA, each)	4.2	4.2	4.2	2.3	2.3
	Amps (LRA, each)					
Evaporator Fan	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460
	Phase	3	3	3	3	3
	HP	3	5	3	3	5
	Amps (FLA, each)	10.4	16	10.4	5.2	8
	Amps (LRA, each)	74.5	82	74.5	38.1	41

ELECTRICAL DATA - ACDZT

ELECTRICAL DATA - -ACDZT SERIES					
		090ACF	090ACG 090ACH	090ADF	090ADG 090ADH
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	Hz	60	60	60	60
	Minimum Circuit Ampacity	41	44	21	21
	Minimum Overcurrent Protection Device Size	50	50	20	30
	Maximum Overcurrent Protection Device Size	60	60	25	30
Compressor Motor	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	RPM	3450	3450	3450	3450
	HP, Compressor 1	7	7	7	7
	Amps (RLA), Comp. 1	25.3	25.3	9.6	9.6
	Amps (LRA), Comp. 1	184	184	84	84
	HP, Compressor 2				
	Amps (RLA), Comp. 2				
	Amps (LRA), Comp. 2				
Condenser Motor	No.	2	2	2	2
	Volts	208/230	208/230	460	460
	Phase	1	1	1	1
	HP	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	0.8	0.8
	Amps (LRA, each)	2.3	2.3	1.4	1.4
Evaporator Fan	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	HP	2	3	2	3
	Amps (FLA, each)	6.6	9.1	3.2	9.1
	Amps (LRA, each)	22.5	74.5	22.5	38.1

ELECTRICAL DATA - ACDZT

ELECTRICAL DATA - -ACDZT SERIES							
		102ACF	102ACG	102ACH	102ADF	102ADG	102ADH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	46	48	51	21	22	30
	Minimum Overcurrent Protection Device Size	60	60	60	25	30	35
	Maximum Overcurrent Protection Device Size	70	70	70	30	35	40
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	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
	Amps (RLA), Comp. 1	28.8	28.8	28.8	12.5	12.5	12.5
	Amps (LRA), Comp. 1	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
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/5	1/5	1/5	1/5	1/5	1/5
	Amps (FLA, each)	1.2	1.2	1.2	0.8	0.8	0.8
	Amps (LRA, each)	2.3	2.3	2.3	1.4	1.4	1.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7	9.1	12	3.5	9.1	12
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1

ELECTRICAL DATA - ACDZT

ELECTRICAL DATA - -ACDZT SERIES							
		120ACF	120ACG	120ACH	120ADF	120ADG	120ADH
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	414-506	414-506	414-506
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	Hz	60	60	60	60	60	60
	Minimum Circuit Ampacity	54	56	58	26	32	34
	Minimum Overcurrent Protection Device Size	70	70	70	30	40	40
	Maximum Overcurrent Protection Device Size	80	80	90	40	45	45
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	RPM	3450	3450	3450	3450	3450	3450
	HP, Compressor 1	10	10	10	10	10	10
	Amps (RLA), Comp. 1	32.6	32.6	32.6	14.8	14.8	14.8
	Amps (LRA), Comp. 1	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
	Volts	208/230	208/230	208/230	460	460	460
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA, each)	2.4	2.4	2.4	1.4	1.4	1.4
	Amps (LRA, each)	4.7	4.7	4.7	2.4	2.4	2.4
Evaporator Fan	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	460	460	460
	Phase	3	3	3	3	3	3
	HP	2	3	3	2	3	3
	Amps (FLA, each)	7.9	10.1	12	3.9	10.1	12
	Amps (LRA, each)	45	74.5	74.5	22.5	38.1	38.1

ELECTRICAL DATA - ACDZT

ELECTRICAL DATA - -ACDZT SERIES					
		150ACF	150ACG	150ADF	150ADG
Unit Information	Unit Operating Voltage Range	187-253	187-253	414-506	414-506
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	Hz	60	60	60	60
	Minimum Circuit Ampacity	51	56	26	29
	Minimum Overcurrent Protection Device Size	60	70	30	35
	Maximum Overcurrent Protection Device Size	70	80	35	40
Compressor Motor	No.	2	2	2	2
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	RPM	3450	3450	3450	3450
	HP, Compressor 1	6	6	6	6
	Amps (RLA), Comp. 1	25	25	12.8	12.8
	Amps (LRA), Comp. 1	164	164	100	100
	HP, Compressor 2	0	0	0	0
	Amps (RLA), Comp. 2	25	25	12.8	12.8
	Amps (LRA), Comp. 2	164	164	100	100
Condenser Motor	No.	2	2	2	2
	Volts	208/230	208/230	460	460
	Phase	1	1	1	1
	HP	3/4	3/4	3/4	3/4
	Amps (FLA, each)	4.2	4.2	2.3	2.3
	Amps (LRA, each)				
Evaporator Fan	No.	1	1	1	1
	Volts	208/230	208/230	460	460
	Phase	3	3	3	3
	HP	3	5	3	5
	Amps (FLA, each)	10.4	16	5.2	8
	Amps (LRA, each)	74.5	82	38.1	41

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.

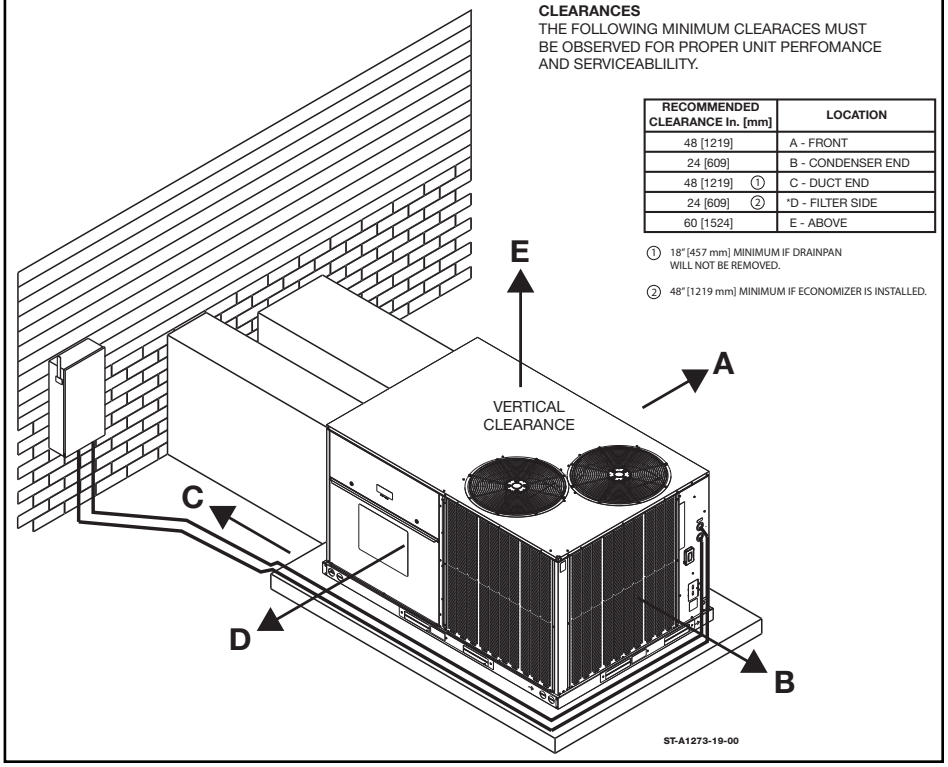
2. LOCATION

   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 Figure 5.)

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.*

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



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.

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" [0 mm] minimum clearance.
2. See Figure 5 for illustration of minimum installation-service clearances.

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 6 and 7. 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 must be provided.
5. The unit should be placed on a solid and level roofcurb or platform of adequate strength. See Figure 7.
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 6
RIGGING FOR LIFTING

CAPACITY TONS [kW]	CORNER WEIGHTS BY PERCENTAGE			
	A	B	C	D
7.5-12.5 [21.1-44.0]	26%	34%	17%	23%

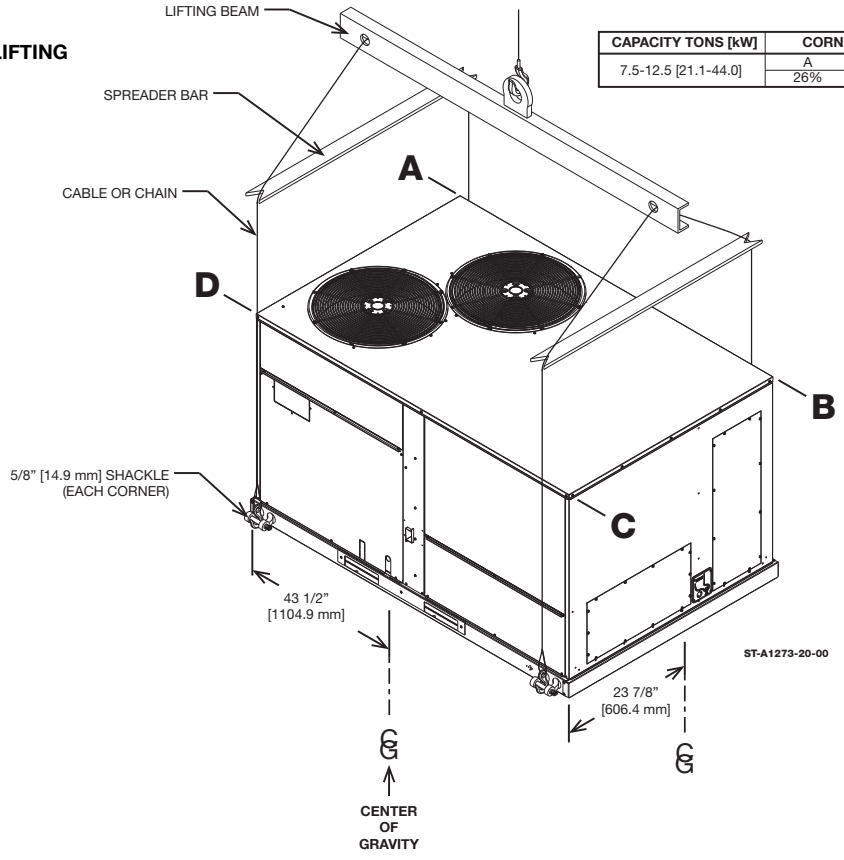
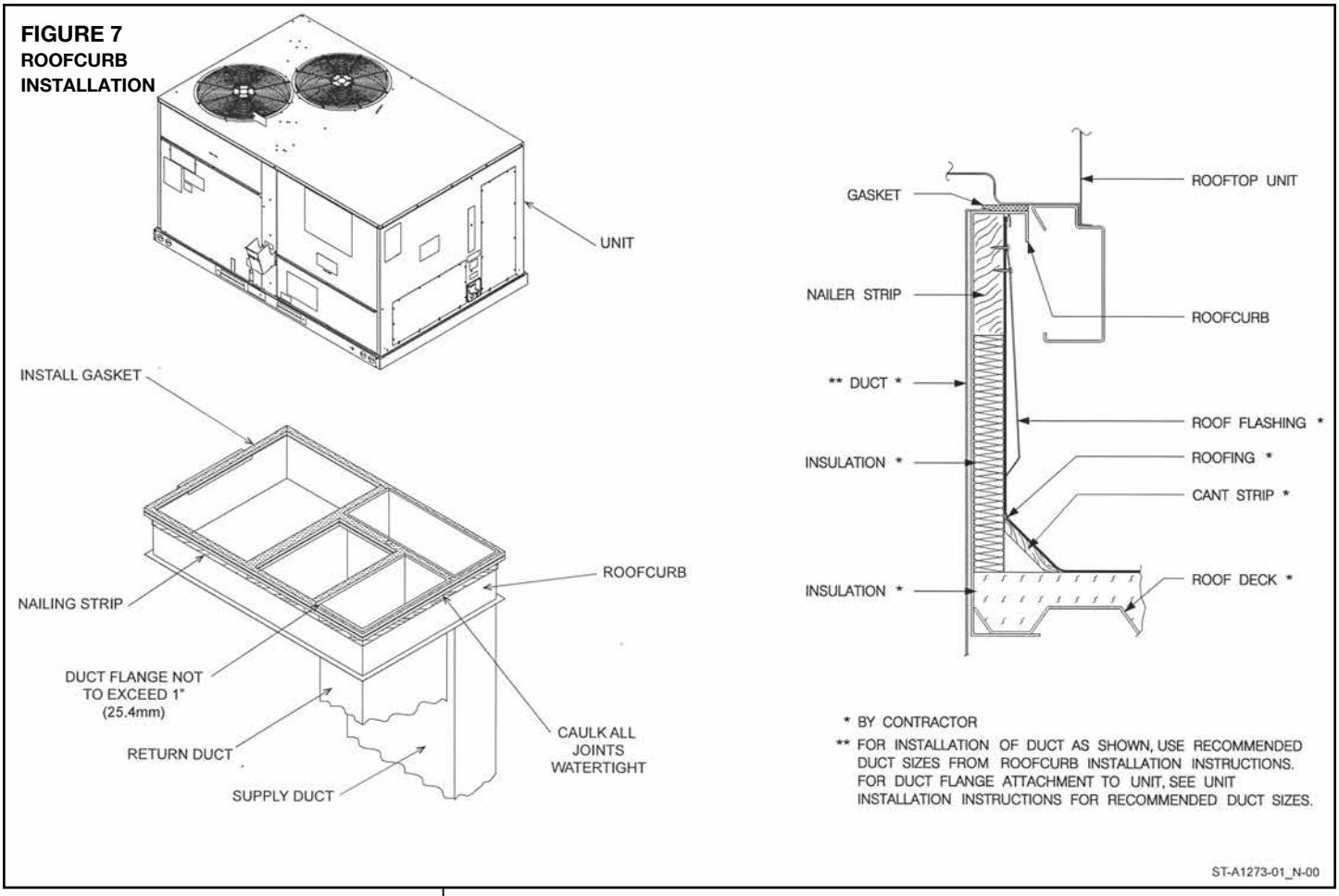


FIGURE 7
ROOFCURB INSTALLATION



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.

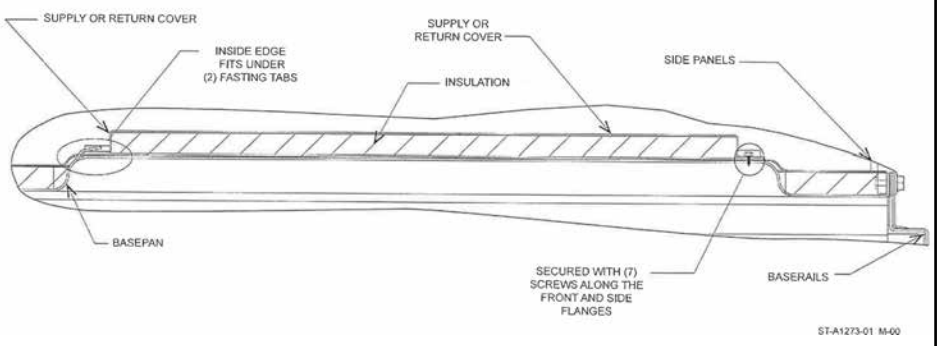
The unit should be placed as close to the space to be air conditioned as possible allowing clearance dimensions as indicated. Ducts should be run as directly as possible to supply and return outlets. Use of non-flammable waterproof flexible connectors on both supply and return connections at the unit 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.

FIGURE 8
COVER GASKET DETAIL



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" [0 mm] for the first 3 feet [.91 m] of discharge duct. Clearance to unit top and side is 0" [0 mm].

VIII. FILTERS

This unit is provided with 4 - 2" x 20" x 20" [51mm 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 8.
3. Secure the return and supply cover to the bottom openings with screws.

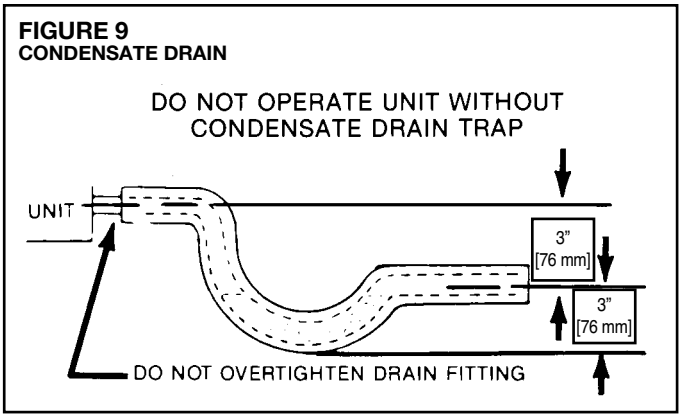
X. CONDENSATE DRAIN

IMPORTANT: Install a condensate trap to ensure proper condensate drainage. See Figure 9.

The condensate drain pan has a threaded female 3/4 inch NPT female connection. Consult local codes or ordinances for specific requirements of condensate drain piping and disposal.

- To use the removable drain pan feature of this unit, some of the condensate line joints should assembled for easy removal and cleaning.
- Use a thin layer of Teflon tape or paste on drain pan connections and install only hand tight.
- Do not over tighten drain pan connections as damage to the drain pan may occur.

FIGURE 9
CONDENSATE DRAIN



- Drain line MUST NOT block service access panels.
- Drain line must be no smaller than drain pan outlet and adequately sized to accommodate the condensate discharge from the unit.
- Drain line should slope away from unit a minimum of 1/8" per foot to ensure proper drainage.
- Drain line must be routed to an acceptable drain or outdoors in accordance with local codes.
- Do not connect condensate drain line to a closed sewer pipe.
- Drain line may need insulation or freeze protection in certain applications.

XI. 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 15. Use the unit rating plate or RACD 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-DD-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 14**).
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 10**).
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.

Single-Point Kit - Description	Model Application
RXJX-AB03 - 60A, 250V (short cabinet)	ACD 090/102/120; HPD090/102 - C & P Voltages
RXJX-AB04, - 60A, 250V (tall cabinet)	ACD 150; HPD120 – C & P Voltages
RXJX-AC03 - 60A, 600V, (short cabinet)	ACD 090/102/120; HPD090/102 – D, N, & V Voltages
RXJX-AC04 - 60A, 600V (tall cabinet)	ACD 150; HPD120 – D, N, & V Voltages

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 14**).
5. Install RXJX single-point connection box as described below.
    a. Remove and retain three screws in bulkhead (**figure 10**).
    b. Remove knockout from bulkhead blockoff (**figure 10**, label indicates location).
    c. Remove left side top and bottom panels from single-point box to allow access to bulkhead securement screws (**figure 11**).
    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 11**).
    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 11**).
    g. Remove concentric knock-out from left side bottom panel as required
    h. Reinstall left side top and bottom panels (**figures 12 & 13**).
    i. Install snap bushing through hole in single-point box and blower bulkhead (**figure 14**).
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 10

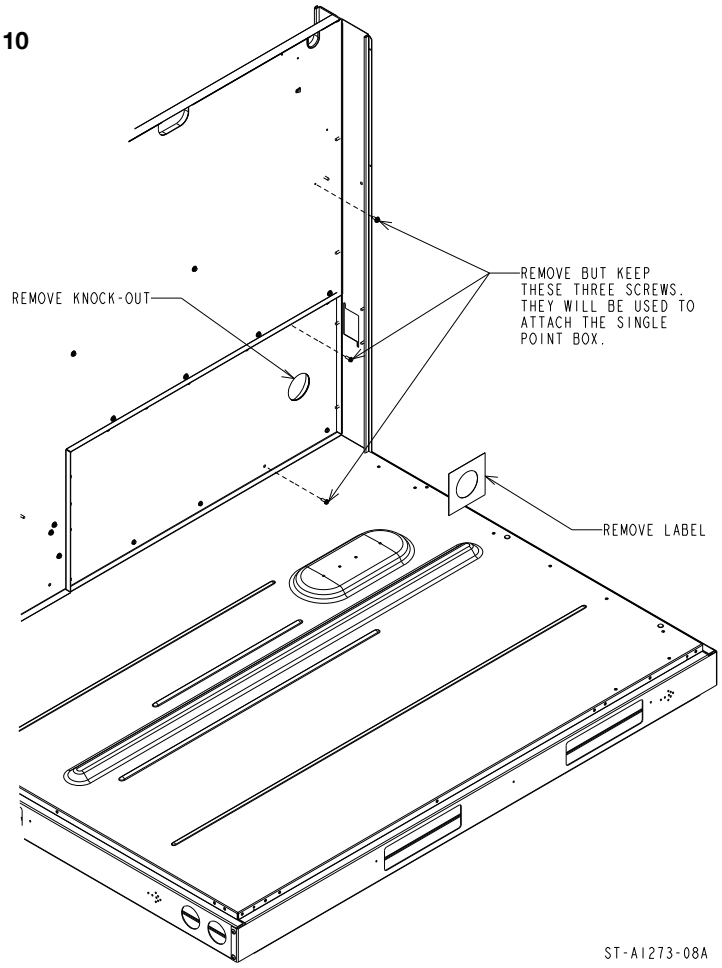


FIGURE 11

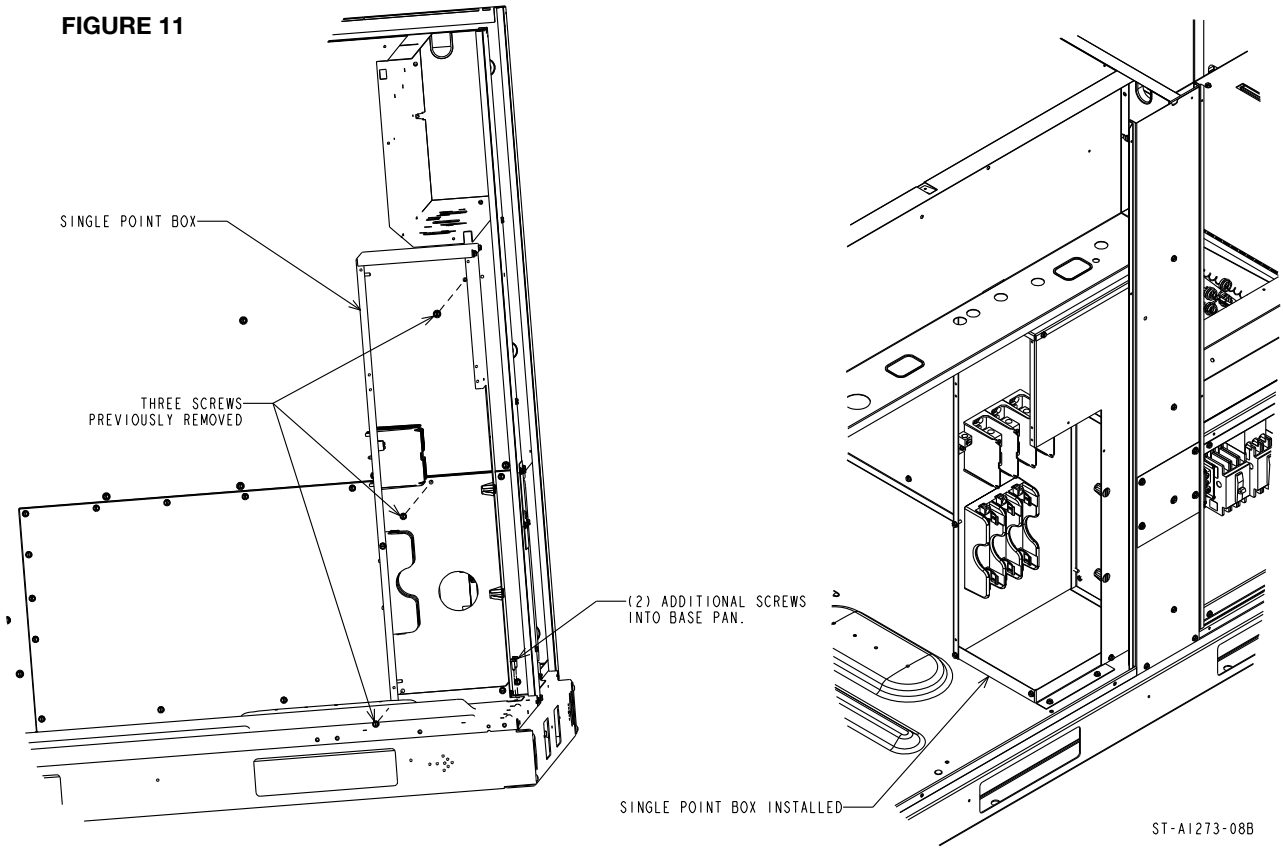


FIGURE 12

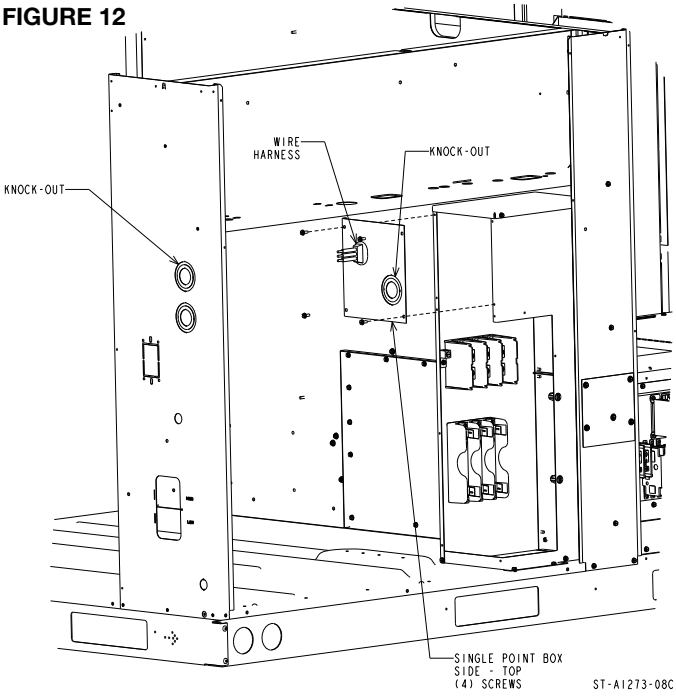


FIGURE 13

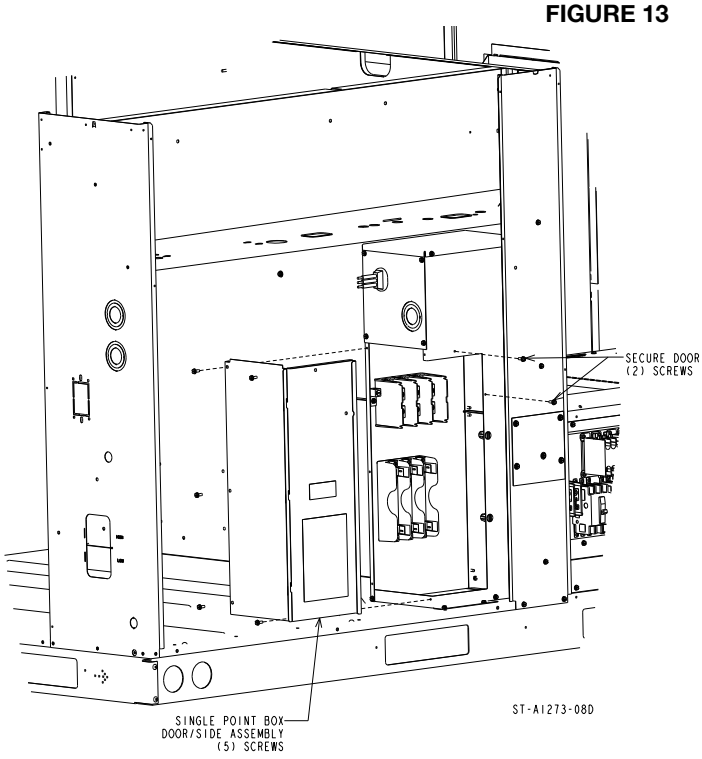


FIGURE 14

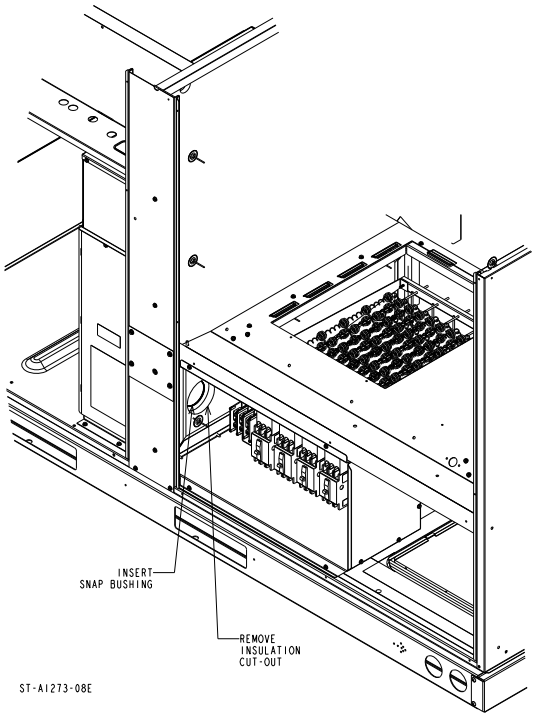
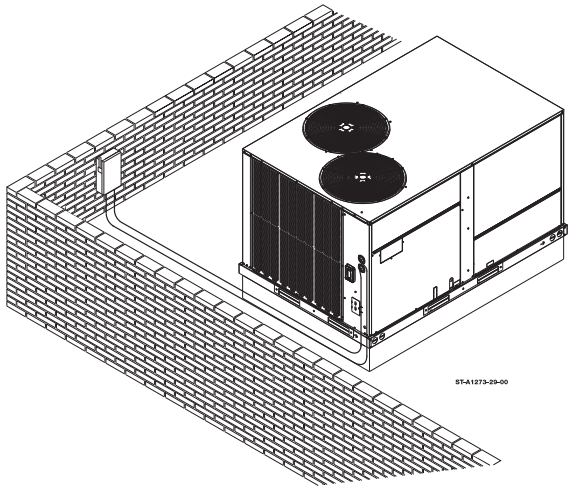


FIGURE 15
BRANCH CIRCUIT DISCONNECT LOCATION



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 13.
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 16 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

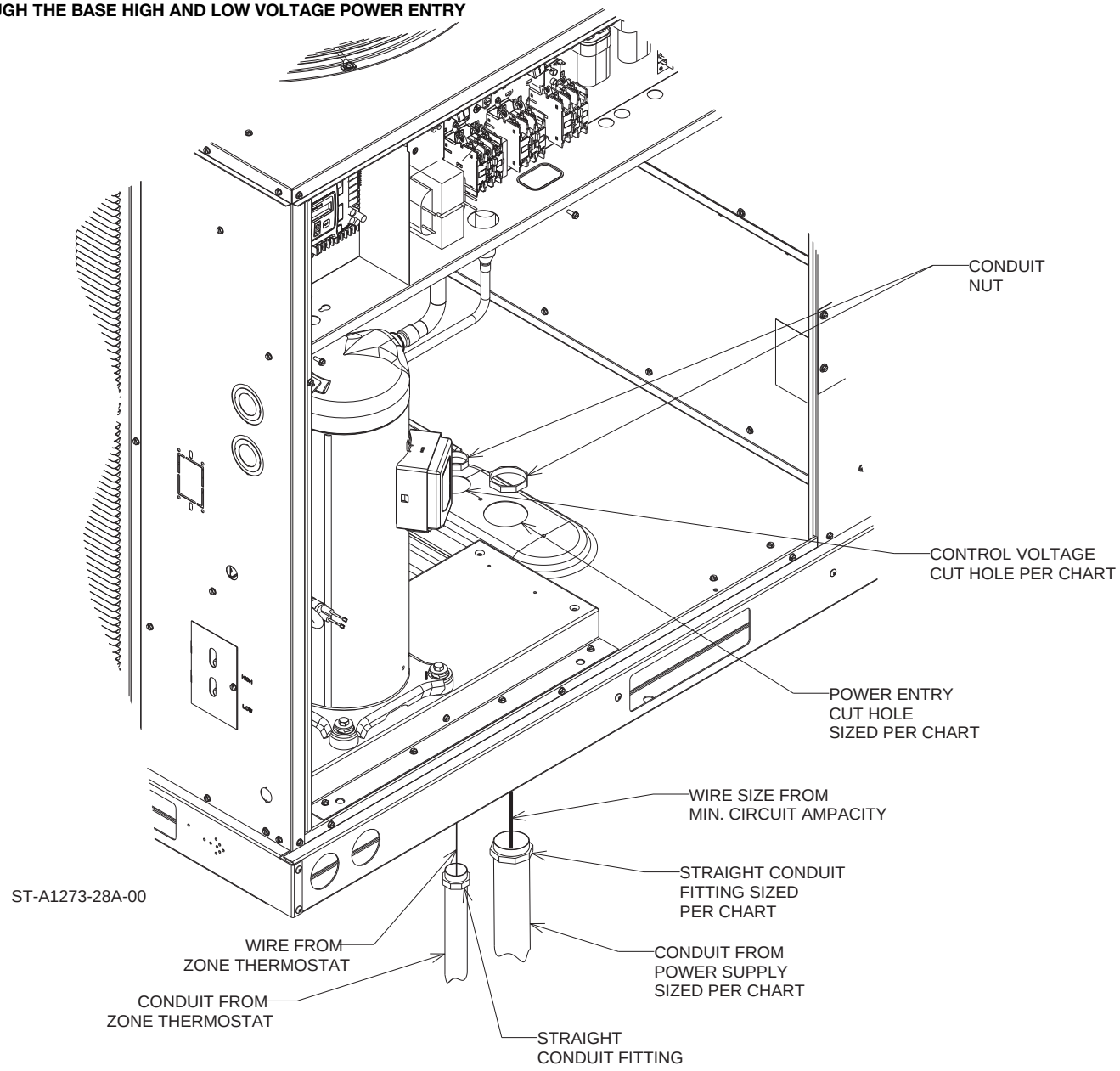
⚠ WARNING

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.

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 air conditioner thermostat package CAREFULLY because each has some different wiring requirements.

FIGURE 16
THROUGH THE BASE HIGH AND LOW VOLTAGE POWER ENTRY



XII. INDOOR AIR FLOW DATA

Belt-drive blower models have motor sheaves set for proper CFM at a typical external static. See pages 36 - 43 for blower performance.

XIII. CRANKCASE HEAT (OPTIONAL)

Crankcase heat is not required on other models, but may be desirable under certain conditions.

XIV. PRE-START CHECK

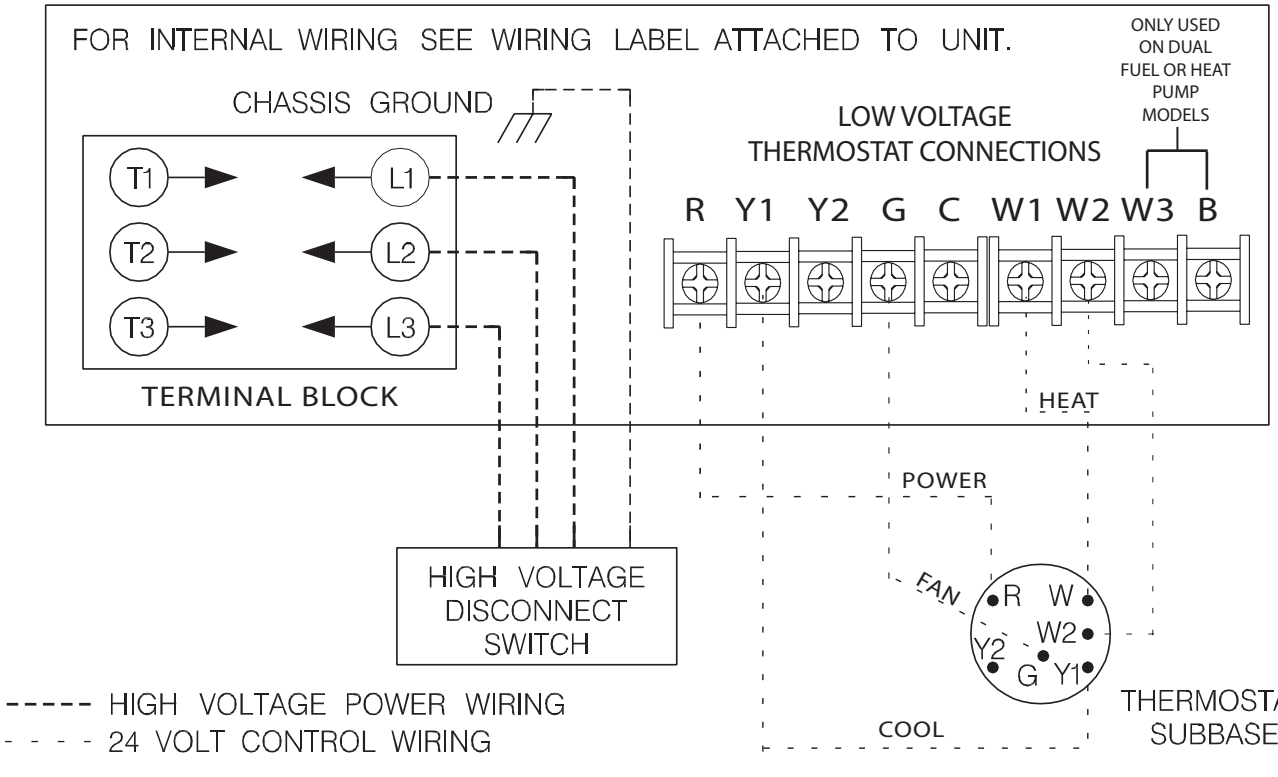
1. Is unit properly located and slightly slanted toward indoor condensate drain?
2. Is ductwork insulated, weatherproofed, with proper spacing to combustible materials?
3. Is air free to travel to and from outdoor coil? (See Figure 3.)
4. Is the wiring correct, tight, and according to unit wiring diagram?
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?

XV. 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.
6. Is outdoor fan operating correctly in the right direction?
7. Is compressor running correctly.
   Record the following after the unit has run some time.
   A. Operating Mode _____
   B. Discharge Pressures (High) _____PSIG [kPa]
   C. Vapor Pressure at Compressors (Low) _____PSIG [kPa]
   D. Vapor Line Temperature at Compressors _____°F [C°].
   E. Indoor Dry Bulb _____°F [C°].
   F. Indoor Wet Bulb _____°F [C°].
   G. Outdoor Dry Bulb _____°F [C°].
   H. Outdoor Wet Bulb _____°F [C°].
   I. Voltage at Contactor _____Volts
   J. Current at Contactors _____ Amps
   K. Model Number _____
   L. Serial Number _____
   M. Location _____
   N. Owner _____
   O. Date _____
8. Turn thermostat system switch to “HEAT.” Unit compressors should stop. Raise temperature setting to above room temperature. Unit should run in heating mode and auxiliary heaters, if installed, should come on.
9. Check the refrigerant charge using the instructions located on unit charging chart. Replace service port caps. Service port cores are for system access only and will leak if not tightly capped.

FIGURE 17
THERMOSTAT CONNECTIONS DIAGRAM



10. Adjust discharge air grilles and balance system.
11. Check ducts for condensation and air leaks.
12. Check unit for tubing and sheet metal rattles.
13. Instruct the owner on operation and maintenance.
14. Leave “INSTALLATION” and ”USE AND CARE“ instructions with owner.

XVI. 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 contacts (Y1) and safety controls.

C. Economizer enthalpy control (if installed) controls operation of first-stage cooling and positions fresh air damper to maintain mixed air temperature. Compressor operates as required by second stage of thermostats (Y2).

D. The system will continue in cooling operation as long as all safety controls are closed, until the thermostat is satisfied.

HEATING MODE

With the thermostat in heat mode, fan on auto, and the room temperature lower than the thermostat setting, the Indoor blower contactor is energized through thermostat contact (G).

⚠ 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.

In the heating mode, the thermostat will energize one or more supplementary heaters.

XVII. MISCELLANEOUS

REPLACEMENT PARTS

Contact your local distributor for a complete parts list.

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

Air Flow CFM [L/s]	Model RACDZ*090* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																							
	External Static Pressure — Inches of Water [kPa]																																								
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	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	RPM	W	RPM	W
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	1294	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	1057	787	1108	817	1162	846	1219	876	1279	904	1343	933	1409	960	1478	987	1550	1014	1626	1040	1704	1066	1786	1092	1870
2600 [1227]	—	—	574	851	607	885	639	922	671	962	702	1006	733	1052	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	1049	742	1096	772	1147	801	1201	830	1258	858	1317	886	1380	914	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	780	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	1929	1049	2014	1072	2103	1094	2194
3100 [1463]	602	1027	633	1065	662	1105	692	1149	720	1196	749	1246	777	1299	804	1355	831	1414	857	1476	883	1541	908	1610	933	1681	958	1755	982	1833	1005	1913	1028	1997	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	1982	1031	2067	1053	2155	1074	2246	1095	2340
3300 [1557]	628	1126	657	1166	685	1210	713	1256	741	1306	768	1359	794	1414	820	1473	846	1535	871	1600	896	1668	920	1739	944	1813	967	1890	989	1970	1012	2053	1033	2139	1055	2229	1075	2321	1096	2416
3400 [1604]	640	1179	669	1221	697	1266	724	1314	751	1365	777	1419	803	1476	829	1536	854	1599	878	1665	902	1734	926	1807	949	1882	971	1960	993	2042	1015	2126	1036	2214	1057	2305	1077	2398	1097	2495
3500 [1652]	653	1235	681	1278	708	1324	735	1373	761	1425	787	1481	812	1539	837	1601	861	1665	885	1733	909	1803	932	1877	954	1954	976	2034	997	2116	1018	2202	1039	2291	1059	2383	1078	2478	1097	2576
3600 [1699]	666	1292	693	1337	720	1384	746	1435	771	1489	797	1545	821	1605	845	1668	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.

Drive Package	A/F						B/G						C/H					
Motor H.P. [W]	2 [1491.4]						3 [2237.1]						3 [2237.1]					
Blower Sheave	AK84H						AK84H						AK84H					
Motor Sheave	1VL40*7/8						1VP50*7/8						1VP56*7/8					
Belt	A49						A50						A51					
Turns Open	0	1	**2**	3	4	5	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	767	721	**678**	635	590	548	992	949	908	866	823	**782**	1108	1067	1029	987	946	**905**

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.

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
				Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-EGF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-EGD2000 & Concentric Adapter RXMC-DD01 (Drop)
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			
2400 [1133]	0.96	0.89	0.98	0.04 [.01]	0.01 [.00]	0.66 [.16]	0.53 [.13]
2500 [1180]	0.96	0.90	0.99	0.05 [.01]	0.02 [.00]	0.71 [.18]	0.57 [.14]
2600 [1227]	0.97	0.92	0.99	0.05 [.01]	0.02 [.00]	0.75 [.19]	0.60 [.15]
2700 [1274]	0.97	0.93	0.99	0.05 [.01]	0.03 [.01]	0.80 [.20]	0.65 [.16]
2800 [1321]	0.98	0.95	0.99	0.06 [.01]	0.04 [.01]	0.85 [.21]	0.69 [.17]
2900 [1368]	0.98	0.96	1.00	0.06 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]
3000 [1416]	0.99	0.97	1.00	0.07 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]
3100 [1463]	1.00	0.99	1.00	0.07 [.02]	0.06 [.01]	1.02 [.25]	0.86 [.21]
3200 [1510]	1.00	1.00	1.01	0.07 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]
3300 [1557]	1.01	1.02	1.01	0.08 [.02]	0.08 [.02]	1.15 [.29]	0.99 [.25]
3400 [1604]	1.01	1.03	1.01	0.08 [.02]	0.09 [.02]	1.21 [.30]	1.05 [.26]
3500 [1652]	1.02	1.05	1.01	0.09 [.02]	0.10 [.02]	1.29 [.32]	1.09 [.27]
3600 [1699]	1.02	1.06	1.02	0.09 [.02]	0.11 [.03]	1.36 [.34]	1.13 [.28]

* 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

Air Flow CFM [L/s]	Model RACDZ*090* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																							
	External Static Pressure — Inches of Water [kPa]																																								
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	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	RPM	W	RPM	W
2400 [1133]	—	—	—	—	558	822	594	853	629	887	663	925	697	965	730	1009	763	1056	794	1106	826	1159	856	1216	886	1275	915	1338	943	1404	971	1474	998	1546	1025	1622	1051	1700	1076	1782
2500 [1180]	—	—	—	—	568	848	604	881	638	917	672	956	705	998	738	1044	769	1092	801	1144	831	1199	861	1258	890	1319	919	1384	947	1452	974	1523	1001	1597	1027	1674	1052	1755	1077	1838
2600 [1227]	—	—	543	846	579	877	613	912	647	950	681	991	713	1035	745	1082	777	1132	807	1186	837	1243	867	1303	895	1366	923	1433	951	1502	978	1575	1004	1651	1029	1730	1054	1812	1078	1898
2700 [1274]	—	—	554	877	589	910	623	946	657	986	689	1029	722	1074	753	1124	784	1176	814	1231	844	1290	872	1352	901	1417	928	1485	955	1556	981	1631	1007	1708	1032	1789	1056	1873	1079	1961
2800 [1321]	—	—	566	911	600	946	634	984	666	1026	699	1070	730	1118	761	1169	792	1223	821	1280	850	1340	878	1404	906	1470	933	1540	959	1613	985	1690	1010	1769	1034	1852	1058	1938	1081	2027
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	1528	938	1599	964	1674	989	1752	1014	1833	1037	1918	1061	2005	1083	2096
3000 [1416]	555	955	589	990	622	1029	655	1070	687	1115	718	1163	748	1214	778	1269	807	1326	836	1387	864	1451	891	1518	918	1588	944	1662	969	1738	994	1818	1017	1901	1041	1987	1063	2077	1085	2169
3100 [1463]	568	998	601	1035	634	1075	666	1118	697	1165	728	1215	758	1268	787	1324	816	1383	844	1445	871	1511	898	1580	924	1652	949	1727	974	1806	998	1887	1022	1972	1044	2060	1066	2151	1088	2245
3200 [1510]	581	1044	614	1083	646	1125	677	1170	708	1218	738	1270	768	1324	796	1382	824	1443	852	1507	879	1575	905	1646	931	1719	955	1796	980	1876	1003	1960	1026	2046	1048	2136	1070	2229	1091	2325
3300 [1557]	594	1093	626	1134	658	1178	689	1225	719	1275	749	1328	778	1384	806	1444	833	1507	860	1573	887	1642	912	1714	937	1790	962	1869	985	1951	1008	2036	1031	2124	1052	2216	1073	2310	1094	2408
3400 [1604]	607	1146	639	1189	670	1234	701	1283	730	1335	759	1390	788	1448	815	1509	843	1574	869	1642	895	1713	920	1787	944	1864	968	1945	991	2028	1014	2115	1036	2205	1057	2298	1077	2395	1097	2494
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	1862	952	1941	975	2024	997	2109	1019	2198	1041	2290	1061	2385	1081	2483	1101	2584
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	2022	982	2106	1004	2194	1025	2284	1046	2378	1066	2474	1086	2574	1104	2677

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	AK84H						AK84H						AK84H					
Motor Sheave	1VL40*7/8						1VP50*7/8						1VP56*7/8					
Belt	A49						A50						A51					
Turns Open	0	1	**2**	3	4	5	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	765	720	**676**	633	589	544	989	949	908	865	823	**780**	1108	1067	1029	987	946	**905**

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	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
				Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-EGF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-EGD2000 & Concentric Adapter RXMC-DD01 (Drop)
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			
2400 [1133]	0.96	0.89	0.98	0.04 [.01]	0.01 [.00]	0.66 [.16]	0.53 [.13]
2500 [1180]	0.96	0.90	0.99	0.05 [.01]	0.02 [.00]	0.71 [.18]	0.57 [.14]
2600 [1227]	0.97	0.92	0.99	0.05 [.01]	0.02 [.00]	0.75 [.19]	0.60 [.15]
2700 [1274]	0.97	0.93	0.99	0.05 [.01]	0.03 [.01]	0.80 [.20]	0.65 [.16]
2800 [1321]	0.98	0.95	0.99	0.06 [.01]	0.04 [.01]	0.85 [.21]	0.69 [.17]
2900 [1368]	0.98	0.96	1.00	0.06 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]
3000 [1416]	0.99	0.97	1.00	0.07 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]
3100 [1463]	1.00	0.99	1.00	0.07 [.02]	0.06 [.01]	1.02 [.25]	0.86 [.21]
3200 [1510]	1.00	1.00	1.01	0.07 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]
3300 [1557]	1.01	1.02	1.01	0.08 [.02]	0.08 [.02]	1.15 [.29]	0.99 [.25]
3400 [1604]	1.01	1.03	1.01	0.08 [.02]	0.09 [.02]	1.21 [.30]	1.05 [.26]
3500 [1652]	1.02	1.05	1.01	0.09 [.02]	0.10 [.02]	1.29 [.32]	1.09 [.27]
3600 [1699]	1.02	1.06	1.02	0.09 [.02]	0.11 [.03]	1.36 [.34]	1.13 [.28]

* 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

Air Flow CFM [L/s]	Model RACDZ*102* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure — Inches of Water [kPa]																																						
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	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	RPM	W
2700 [1274]	—	—	561	894	596	934	631	975	665	1018	698	1062	730	1108	762	1155	793	1203	823	1253	853	1304	882	1357	910	1411	937	1467	964	1524	990	1583	1015	1643	1039	1704	1063	1767	1086	1832
2800 [1321]	—	—	573	927	608	969	642	1013	676	1058	708	1104	740	1152	771	1201	802	1252	832	1304	861	1358	889	1413	917	1470	943	1528	970	1587	995	1648	1020	1711	1044	1775	1067	1840	1090	1907
2900 [1368]	—	—	586	964	620	1008	654	1054	687	1101	719	1150	750	1200	781	1252	811	1305	840	1360	869	1416	897	1473	924	1532	950	1593	976	1654	1001	1718	1025	1782	1048	1848	1071	1916	1093	1985
3000 [1416]	564	959	599	1004	633	1051	666	1099	698	1149	730	1200	761	1253	791	1307	820	1362	849	1419	877	1477	904	1537	931	1598	957	1661	982	1725	1006	1791	1030	1858	1053	1926	1075	1996	1097	2067
3100 [1463]	578	1001	612	1048	645	1098	678	1148	710	1200	741	1254	771	1308	801	1365	830	1423	858	1482	886	1542	912	1605	939	1668	964	1733	989	1800	1012	1868	1036	1937	1058	2008	1080	2080	1101	2154
3200 [1510]	592	1046	625	1096	658	1148	690	1201	721	1255	752	1311	782	1368	811	1427	840	1487	867	1548	894	1611	921	1676	946	1742	971	1809	995	1878	1019	1948	1041	2020	1063	2093	1085	2168	1105	2244
3300 [1557]	605	1096	638	1148	671	1202	702	1257	733	1314	763	1372	793	1432	821	1493	849	1555	877	1619	903	1684	929	1751	954	1819	979	1889	1002	1960	1025	2033	1047	2107	1069	2182	1090	2259	1110	2337
3400 [1604]	619	1149	652	1204	684	1260	715	1317	745	1376	775	1437	804	1499	832	1562	860	1627	886	1693	912	1761	938	1830	962	1900	986	1972	1009	2046	1032	2121	1053	2197	1074	2275	1095	2354	1114	2435
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	970	1985	994	2060	1017	2135	1038	2213	1060	2291	1080	2371	1100	2453	1119	2536
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	979	2074	1002	2151	1024	2229	1045	2308	1066	2389	1086	2472	1105	2556	1124	2641
3700 [1746]	663	1332	694	1393	724	1456	754	1521	783	1587	811	1654	838	1723	865	1793	891	1865	916	1938	941	2013	965	2089	988	2167	1010	2246	1032	2326	1053	2408	1073	2491	1092	2576	1111	2662	1129	2750
3800 [1793]	678	1400	708	1464	738	1529	767	1596	795	1665	823	1734	850	1805	876	1878	902	1952	926	2028	951	2105	974	2183	996	2263	1018	2344	1039	2427	1060	2511	1080	2597	1099	2684	1117	2772	1134	2862
3900 [1840]	693	1472	723	1538	752	1606	781	1675	808	1746	836	1818	862	1892	888	1966	913	2043	937	2121	961	2200	983	2281	1005	2363	1027	2447	1048	2532	1067	2618	1087	2706	1105	2796	1123	2886	1140	2979
4000 [1888]	708	1548	737	1617	766	1687	794	1758	822	1831	848	1906	874	1981	900	2059	924	2137	948	2218	971	2299	993	2382	1015	2467	1036	2553	1056	2640	1075	2729	1094	2819	1112	2911	1129	3004	1146	3099
4100 [1935]	723	1628	752	1699	781	1771	808	1845	835	1920	861	1997	887	2075	911	2155	935	2236	959	2318	981	2402	1003	2488	1024	2574	1045	2663	1064	2752	1083	2844	1101	2936	1119	3030	1136	3126	1152	3223

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*7/8						1VP50*7/8						1VP56*7/8					
Belt	A49						A50						A51					
Turns Open	0	1	**2**	3	4	5	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	804	758	**710**	661	616	559	1048	1003	959	914	872	**826**	1168	1128	1087	1044	1002	**957**

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.

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
				Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-EGF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-EGD2000 & Concentric Adapter RXMC-DD01 (Drop)
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			
2700 [1274]	0.97	0.93	0.99	0.07 [.02]	0.03 [.01]	0.80 [.20]	0.65 [.16]
2800 [1321]	0.98	0.94	0.99	0.07 [.02]	0.03 [.01]	0.85 [.21]	0.69 [.17]
2900 [1368]	0.98	0.96	0.99	0.08 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]
3000 [1416]	0.99	0.97	1.00	0.08 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]
3100 [1463]	0.99	0.99	1.00	0.09 [.02]	0.06 [.01]	1.02 [.25]	0.86 [.21]
3200 [1510]	1.00	1.00	1.00	0.10 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]
3300 [1557]	1.01	1.01	1.00	0.10 [.02]	0.08 [.02]	1.15 [.29]	0.99 [.25]
3400 [1604]	1.01	1.03	1.01	0.11 [.03]	0.09 [.02]	1.21 [.30]	1.05 [.26]
3500 [1652]	1.02	1.04	1.01	0.11 [.03]	0.10 [.02]	1.29 [.32]	1.09 [.27]
3600 [1699]	1.02	1.06	1.01	0.12 [.03]	0.11 [.03]	1.36 [.34]	1.13 [.28]
3700 [1746]	1.03	1.07	1.02	0.13 [.03]	0.12 [.03]	1.43 [.36]	1.18 [.29]
3800 [1793]	1.03	1.09	1.02	0.13 [.03]	0.13 [.03]	1.50 [.37]	1.23 [.31]
3900 [1840]	1.04	1.10	1.02	0.14 [.03]	0.15 [.04]	1.59 [.40]	1.31 [.33]
4000 [1888]	1.05	1.12	1.02	0.15 [.04]	0.16 [.04]	1.68 [.42]	1.38 [.34]
4100 [1935]	1.05	1.13	1.03	0.15 [.04]	0.17 [.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 — 8.5 TON [29.9kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RACDZ*102* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																							
	External Static Pressure — Inches of Water [kPa]																																							
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	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	RPM	W	RPM	W
2700 [1274]	—	—	—	—	577	932	611	969	644	1009	677	1052	710	1098	742	1147	774	1199	806	1254	837	1312	868	1373	898	1437	929	1505	959	1575	988	1648	1017	1725	1046	1804	1074	1886	1102	1972
2800 [1321]	—	—	556	926	589	962	622	1000	655	1042	687	1087	719	1134	751	1185	783	1239	814	1295	844	1355	875	1418	905	1484	934	1553	963	1624	992	1699	1021	1777	1049	1858	1077	1942	1105	2029
2900 [1368]	—	—	568	958	601	995	633	1036	666	1079	697	1125	729	1174	760	1227	791	1282	821	1340	851	1402	881	1466	911	1533	940	1604	968	1677	997	1754	1025	1834	1052	1916	1080	2002	1107	2090
3000 [1416]	—	—	580	994	613	1033	645	1074	676	1119	708	1167	738	1218	769	1272	799	1329	829	1389	859	1452	888	1518	917	1587	945	1659	973	1734	1001	1812	1029	1894	1056	1978	1082	2065	1109	2155
3100 [1463]	561	996	593	1033	624	1073	656	1117	687	1163	718	1213	748	1265	778	1321	808	1379	837	1441	866	1506	895	1573	923	1644	951	1718	978	1794	1006	1874	1033	1957	1059	2043	1085	2132	1111	2224
3200 [1510]	574	1037	605	1076	636	1118	667	1163	698	1211	728	1262	758	1316	787	1373	816	1434	845	1497	873	1563	902	1632	929	1705	957	1780	984	1858	1010	1940	1037	2024	1063	2112	1088	2202	1113	2296
3300 [1557]	587	1082	618	1122	648	1166	679	1212	709	1262	738	1315	767	1371	796	1430	825	1491	853	1556	881	1624	908	1695	936	1769	962	1846	989	1926	1015	2009	1041	2095	1066	2184	1091	2276	1116	2372
3400 [1604]	600	1130	630	1172	660	1217	690	1266	720	1317	749	1371	777	1429	806	1489	834	1553	861	1619	888	1689	915	1761	942	1837	968	1916	994	1997	1020	2082	1045	2170	1070	2260	1094	2354	1118	2451
3500 [1652]	613	1182	643	1226	672	1273	702	1323	730	1376	759	1432	787	1491	815	1553	842	1618	869	1686	896	1757	922	1831	948	1909	974	1989	999	2072	1024	2158	1049	2248	1073	2340	1097	2436	1121	2534
3600 [1699]	626	1238	656	1283	685	1332	713	1383	741	1438	769	1495	797	1556	824	1620	851	1687	877	1756	904	1829	929	1905	955	1984	980	2066	1005	2151	1029	2238	1053	2329	1077	2423	1100	2520	1123	2621
3700 [1746]	640	1297	668	1344	697	1394	725	1447	753	1504	780	1563	807	1625	833	1690	860	1759	886	1830	911	1905	937	1982	961	2063	986	2146	1010	2233	1034	2322	1057	2415	1081	2510	1103	2609	1126	2711
3800 [1793]	653	1360	681	1409	709	1460	737	1515	764	1573	790	1634	817	1698	843	1765	869	1835	894	1908	919	1984	944	2063	968	2145	992	2230	1016	2318	1039	2410	1062	2504	1084	2601	1107	2701	1128	2805
3900 [1840]	667	1426	694	1477	721	1530	748	1587	775	1646	801	1709	827	1774	852	1843	878	1914	902	1989	927	2067	951	2147	975	2231	998	2318	1021	2408	1044	2500	1066	2596	1088	2695	1110	2797	1131	2902
4000 [1888]	680	1496	707	1548	734	1604	760	1662	786	1723	812	1787	837	1854	862	1924	887	1998	911	2074	935	2153	958	2235	981	2321	1004	2409	1027	2501	1049	2595	1071	2693	1092	2793	1113	2897	1134	3003
4100 [1935]	694	1570	720	1624	746	1681	772	1740	797	1803	822	1869	847	1938	872	2009	896	2084	919	2162	943	2243	965	2327	988	2414	1010	2504	1032	2597	1054	2693	1075	2792	1096	2895	1116	3000	1137	3108

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*7/8						1VP50*7/8						1VP56*7/8					
Belt	A49						A50						A51					
Turns Open	0	1	**2**	3	4	5	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	802	754	**707**	662	616	555	1048	1005	960	916	870	**827**	1170	1126	1085	1044	1000	**956**

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	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
				Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-EGF2000 & Concentric Adapter RXMC-DD01 (Flush)	Concentric Diffuser RXRN-EGD2000 & Concentric Adapter RXMC-DD01 (Drop)
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			
2700 [1274]	0.97	0.93	0.99	0.07 [.02]	0.03 [.01]	0.80 [.20]	0.65 [.16]
2800 [1321]	0.98	0.94	0.99	0.07 [.02]	0.03 [.01]	0.85 [.21]	0.69 [.17]
2900 [1368]	0.98	0.96	0.99	0.08 [.02]	0.04 [.01]	0.91 [.23]	0.74 [.18]
3000 [1416]	0.99	0.97	1.00	0.08 [.02]	0.05 [.01]	0.96 [.24]	0.79 [.20]
3100 [1463]	0.99	0.99	1.00	0.09 [.02]	0.06 [.01]	1.02 [.25]	0.86 [.21]
3200 [1510]	1.00	1.00	1.00	0.10 [.02]	0.07 [.02]	1.08 [.27]	0.92 [.23]
3300 [1557]	1.01	1.01	1.00	0.10 [.03]	0.08 [.02]	1.15 [.29]	0.99 [.25]
3400 [1604]	1.01	1.03	1.01	0.11 [.03]	0.09 [.02]	1.21 [.30]	1.05 [.26]
3500 [1652]	1.02	1.04	1.01	0.11 [.03]	0.10 [.02]	1.29 [.32]	1.09 [.27]
3600 [1699]	1.02	1.06	1.01	0.12 [.03]	0.11 [.03]	1.36 [.34]	1.13 [.28]
3700 [1746]	1.03	1.07	1.02	0.13 [.03]	0.12 [.03]	1.43 [.36]	1.18 [.29]
3800 [1793]	1.03	1.09	1.02	0.13 [.03]	0.13 [.03]	1.50 [.37]	1.23 [.31]
3900 [1840]	1.04	1.10	1.02	0.14 [.04]	0.15 [.04]	1.59 [.40]	1.31 [.33]
4000 [1888]	1.05	1.12	1.02	0.15 [.04]	0.16 [.04]	1.68 [.42]	1.38 [.34]
4100 [1935]	1.05	1.13	1.03	0.15 [.04]	0.17 [.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 — 10 TON [35.1kW] — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RACDZ*120* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure — Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	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	RPM	W
3200 [1510]	597	1046	629	1092	661	1141	692	1191	723	1242	753	1296	782	1351	811	1409	839	1468	867	1528	893	1591	920	1655	945	1722	970	1790	994	1859	1018	1931	1041	2004	1064	2080	1085	2157	1107	2236
3300 [1557]	610	1092	642	1141	674	1192	705	1244	735	1299	764	1355	793	1413	822	1473	849	1535	876	1599	903	1664	928	1731	954	1800	978	1871	1002	1943	1025	2018	1048	2094	1070	2172	1091	2251	1112	2333
3400 [1604]	624	1142	655	1194	686	1247	717	1303	747	1360	776	1419	804	1480	832	1542	859	1607	886	1673	912	1741	937	1811	962	1883	986	1956	1010	2031	1032	2108	1055	2187	1076	2268	1097	2350	1117	2435
3500 [1652]	638	1196	669	1251	699	1307	729	1365	759	1425	787	1487	815	1550	843	1616	870	1683	896	1752	921	1823	946	1895	971	1969	994	2046	1017	2124	1040	2203	1061	2285	1083	2368	1103	2454	1123	2541
3600 [1699]	651	1255	682	1312	712	1371	742	1432	771	1494	799	1559	827	1625	854	1693	880	1763	906	1835	931	1908	955	1984	979	2061	1003	2140	1025	2220	1047	2303	1068	2387	1089	2473	1109	2561	1129	2651
3700 [1746]	665	1317	696	1377	725	1439	755	1503	783	1568	811	1635	838	1704	865	1775	891	1848	916	1922	941	1998	965	2076	988	2156	1011	2238	1033	2321	1055	2406	1075	2493	1096	2582	1115	2673	1134	2765
3800 [1793]	679	1385	709	1447	739	1512	767	1578	795	1646	823	1716	850	1788	876	1861	901	1937	926	2014	950	2093	974	2173	997	2256	1019	2340	1041	2426	1062	2514	1083	2604	1102	2696	1122	2789	1140	2884
3900 [1840]	693	1456	723	1521	752	1589	780	1658	808	1728	835	1801	861	1875	887	1952	912	2030	936	2110	960	2191	983	2275	1006	2360	1028	2447	1049	2536	1070	2627	1090	2719	1109	2813	1128	2909	1146	3007
4000 [1888]	708	1532	737	1600	765	1670	793	1741	820	1815	847	1890	873	1967	898	2046	923	2127	947	2210	970	2294	993	2380	1015	2468	1036	2558	1057	2650	1077	2743	1097	2838	1116	2935	1134	3034	1152	3135
4100 [1935]	722	1612	751	1682	779	1755	806	1830	833	1906	859	1984	884	2064	909	2145	933	2229	957	2314	980	2401	1002	2490	1024	2581	1045	2673	1065	2768	1085	2864	1104	2962	1123	3061	1141	3163	1158	3266
4200 [1982]	736	1696	765	1769	792	1845	819	1922	845	2001	871	2082	896	2164	921	2249	944	2335	968	2423	990	2513	1012	2604	1033	2698	1054	2793	1074	2890	1093	2989	1112	3090	1130	3192	1147	3296	1164	3402
4300 [2029]	751	1784	779	1861	806	1939	832	2019	858	2100	883	2184	908	2269	932	2356	955	2445	978	2536	1000	2629	1022	2723	1043	2819	1063	2917	1082	3017	1101	3118	1119	3222	1137	3327	1154	3434	—	—
4400 [2076]	765	1877	793	1956	820	2037	846	2120	871	2204	896	2290	920	2378	944	2468	967	2560	989	2653	1010	2749	1032	2846	1052	2945	1072	3045	1091	3148	1109	3252	1127	3358	1144	3466	1161	3576	—	—
4500 [2123]	780	1974	807	2056	833	2140	859	2225	884	2312	908	2401	932	2492	955	2584	978	2679	1000	2775	1021	2873	1041	2973	1061	3074	1081	3178	1099	3283	1117	3390	1135	3499	1152	3609	1168	3722	—	—
4600 [2171]	795	2076	821	2160	847	2246	872	2335	897	2424	921	2516	944	2610	967	2705	989	2802	1010	2901	1031	3002	1051	3104	1071	3208	1090	3314	1108	3422	1126	3532	1143	3644	1159	3757	—	—	—	—
4700 [2218]	810	2181	836	2269	861	2358	886	2448	910	2541	934	2635	957	2732	979	2830	1000	2929	1021	3031	1042	3134	1062	3240	1081	3347	1099	3455	1117	3566	1134	3679	1151	3793	1167	3909	—	—	—	—
4800 [2265]	825	2291	850	2381	875	2473	900	2567	923	2662	946	2759	969	2858	991	2959	1012	3061	1033	3165	1052	3272	1072	3380	1090	3489	1108	3601	1126	3714	1143	3829	1159	3946	—	—	—	—	—	—

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*7/8						1VP50*7/8						1VP56*7/8					
Belt	A49						A50						A51					
Turns Open	0	1	**2**	3	4	5	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	802	758	**710**	661	616	559	1040	999	955	911	868	**824**	1155	1120	1080	1039	996	**953**

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.

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
				Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-EGF3415 & Diffuser RXMC-DD02 (Flush)	Concentric Diffuser RXRN-EGD3415 & Diffuser RXMC-DD02 (Drop)
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			
3200 [1510]	0.97	0.93	0.99	0.09 [.02]	0.07 [.02]	0.74 [.18]	0.56 [.14]
3300 [1557]	0.98	0.94	0.99	0.10 [.02]	0.08 [.02]	0.79 [.20]	0.59 [.15]
3400 [1604]	0.98	0.96	0.99	0.11 [.03]	0.09 [.02]	0.84 [.21]	0.62 [.15]
3500 [1652]	0.99	0.97	1.00	0.11 [.03]	0.10 [.02]	0.90 [.22]	0.66 [.16]
3600 [1699]	0.99	0.98	1.00	0.12 [.03]	0.11 [.03]	0.95 [.24]	0.69 [.17]
3700 [1746]	1.00	0.99	1.00	0.13 [.03]	0.12 [.03]	1.00 [.25]	0.73 [.18]
3800 [1793]	1.00	1.01	1.00	0.13 [.03]	0.13 [.03]	1.04 [.26]	0.76 [.19]
3900 [1840]	1.01	1.02	1.00	0.14 [.03]	0.15 [.04]	1.09 [.27]	0.80 [.20]
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	1.13 [.28]	0.84 [.21]
4100 [1935]	1.02	1.04	1.01	0.15 [.04]	0.17 [.04]	1.19 [.30]	0.88 [.22]
4200 [1982]	1.02	1.06	1.01	0.16 [.04]	0.19 [.05]	1.24 [.31]	0.92 [.23]
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	1.31 [.33]	0.97 [.24]
4400 [2076]	1.03	1.08	1.01	0.18 [.04]	0.21 [.05]	1.37 [.34]	1.02 [.25]
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	1.43 [.35]	1.07 [.27]
4600 [2171]	1.04	1.11	1.02	0.19 [.05]	0.24 [.06]	1.48 [.37]	1.11 [.28]
4700 [2218]	1.05	1.12	1.02	0.20 [.05]	0.26 [.06]	1.54 [.38]	1.15 [.29]
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.59 [.40]	1.19 [.30]

* 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 — SIDEFLOW

Air Flow CFM [L/s]	Model RACDZ*120* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																			
	External Static Pressure — Inches of Water [kPa]																																			
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	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	RPM	W
3200 [1510]	575	1018	607	1057	637	1099	667	1143	697	1191	727	1240	756	1293	785	1348	814	1406	842	1466	870	1529	897	1595	924	1664	951	1735	978	1809	1004	1885	1030	1965	1055	2047	1080	2131	1105	2219
3300 [1557]	588	1060	618	1101	649	1146	679	1192	708	1242	737	1294	766	1349	795	1406	823	1466	850	1529	878	1595	905	1663	932	1734	958	1808	984	1884	1010	1963	1035	2045	1060	2129	1085	2216	1109	2306
3400 [1604]	600	1106	630	1150	660	1196	690	1245	719	1297	748	1352	776	1409	804	1469	832	1531	859	1597	886	1664	913	1735	939	1808	965	1884	990	1963	1016	2044	1040	2128	1065	2215	1089	2305	1113	2397
3500 [1652]	613	1156	643	1202	672	1251	701	1302	730	1357	758	1413	786	1473	814	1535	841	1600	868	1668	894	1738	920	1811	946	1887	972	1965	997	2046	1022	2130	1046	2217	1070	2306	1094	2397	1117	2492
3600 [1699]	626	1210	655	1258	684	1310	713	1364	741	1420	769	1479	796	1541	823	1606	850	1673	877	1743	903	1816	929	1892	954	1970	979	2050	1004	2134	1028	2220	1052	2309	1076	2400	1099	2494	1122	2591
3700 [1746]	639	1268	668	1319	696	1373	724	1429	752	1488	779	1550	806	1614	833	1681	860	1751	886	1823	911	1898	937	1976	962	2056	986	2140	1011	2225	1035	2314	1058	2405	1081	2499	1104	2596	1127	2695
3800 [1793]	652	1330	680	1384	708	1440	736	1498	763	1560	790	1624	817	1690	843	1760	869	1832	895	1907	920	1984	945	2064	970	2147	994	2233	1018	2321	1041	2412	1064	2505	1087	2602	1110	2701	1132	2802
3900 [1840]	665	1397	693	1452	721	1511	748	1572	775	1636	801	1702	828	1771	854	1843	879	1917	904	1995	929	2075	954	2157	978	2242	1001	2330	1025	2421	1048	2514	1071	2610	1093	2709	1115	2810	1137	2914
4000 [1888]	678	1467	706	1525	733	1586	760	1650	787	1716	813	1785	839	1856	864	1930	889	2007	914	2087	938	2169	962	2254	986	2341	1009	2432	1032	2525	1055	2620	1077	2719	1099	2820	1121	2923	1142	3030
4100 [1935]	692	1542	719	1602	746	1666	772	1731	798	1800	824	1871	850	1945	875	2022	899	2101	923	2183	947	2267	971	2355	994	2445	1017	2537	1040	2633	1062	2731	1084	2831	1105	2935	1126	3041	1147	3150
4200 [1982]	706	1621	732	1684	759	1749	785	1817	810	1888	836	1962	861	2038	885	2117	909	2199	933	2283	957	2370	980	2460	1003	2552	1025	2647	1047	2745	1069	2845	1091	2948	1112	3054	1132	3163	1153	3274
4300 [2029]	720	1704	746	1769	772	1837	797	1907	823	1981	847	2057	872	2135	896	2217	920	2301	943	2387	966	2477	989	2569	1012	2664	1034	2761	1055	2861	1077	2964	1098	3069	1118	3178	1139	3288	1158	3402
4400 [2076]	734	1791	760	1858	785	1928	810	2001	835	2077	859	2155	883	2237	907	2320	931	2407	954	2496	976	2587	999	2682	1020	2779	1042	2879	1063	2981	1084	3087	1105	3195	1125	3305	1145	3418	—	—
4500 [2123]	748	1882	773	1952	798	2024	823	2100	847	2178	871	2259	895	2342	918	2428	941	2517	964	2608	986	2702	1008	2799	1030	2899	1051	3001	1071	3106	1092	3214	1112	3324	1132	3437	1151	3552	—	—
4600 [2171]	762	1977	787	2049	812	2124	836	2202	860	2283	884	2366	907	2451	930	2540	952	2631	974	2725	996	2822	1018	2921	1039	3023	1059	3127	1080	3235	1100	3345	1120	3457	1139	3573	1158	3691	—	—
4700 [2218]	777	2076	801	2151	826	2228	849	2309	873	2391	896	2477	919	2565	941	2656	963	2750	985	2846	1006	2945	1027	3046	1048	3151	1068	3258	1088	3367	1108	3480	1127	3595	1146	3712	—	—	—	—
4800 [2265]	792	2180	816	2257	840	2337	863	2419	886	2504	909	2592	931	2683	953	2776	975	2872	996	2971	1017	3072	1037	3176	1058	3283	1077	3392	1097	3504	1116	3619	1135	3736	1153	3856	—	—	—	—

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*7/8						1VP50*7/8						1VP56*7/8					
Belt	A49						A50						A51					
Turns Open	0	1	**2**	3	4	5	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	798	753	**707**	663	616	556	1041	998	955	912	867	**824**	1155	1119	1078	1037	994	**951**

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	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
				Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-EGF3415 & Diffuser RXMC-DD02 (Flush)	Concentric Diffuser RXRN-EGD3415 & Diffuser RXMC-DD02 (Drop)
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			
3200 [1510]	0.97	0.93	0.99	0.10 [.02]	0.07 [.02]	0.74 [.18]	0.56 [.14]
3300 [1557]	0.98	0.94	0.99	0.10 [.03]	0.08 [.02]	0.79 [.20]	0.59 [.15]
3400 [1604]	0.98	0.96	0.99	0.11 [.03]	0.09 [.02]	0.84 [.21]	0.62 [.15]
3500 [1652]	0.99	0.97	1.00	0.11 [.03]	0.10 [.02]	0.90 [.22]	0.66 [.16]
3600 [1699]	0.99	0.98	1.00	0.12 [.03]	0.11 [.03]	0.95 [.24]	0.69 [.17]
3700 [1746]	1.00	0.99	1.00	0.13 [.03]	0.12 [.03]	1.00 [.25]	0.73 [.18]
3800 [1793]	1.00	1.01	1.00	0.13 [.03]	0.13 [.03]	1.04 [.26]	0.76 [.19]
3900 [1840]	1.01	1.02	1.00	0.14 [.04]	0.15 [.04]	1.09 [.27]	0.80 [.20]
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	1.13 [.28]	0.84 [.21]
4100 [1935]	1.02	1.04	1.01	0.15 [.04]	0.17 [.04]	1.19 [.30]	0.88 [.22]
4200 [1982]	1.02	1.06	1.01	0.16 [.04]	0.19 [.05]	1.24 [.31]	0.92 [.23]
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	1.31 [.33]	0.97 [.24]
4400 [2076]	1.03	1.08	1.01	0.18 [.04]	0.21 [.05]	1.37 [.34]	1.02 [.25]
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	1.43 [.35]	1.07 [.27]
4600 [2171]	1.04	1.11	1.02	0.19 [.05]	0.24 [.06]	1.48 [.37]	1.11 [.28]
4700 [2218]	1.05	1.12	1.02	0.20 [.05]	0.26 [.06]	1.54 [.38]	1.15 [.29]
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.59 [.40]	1.19 [.30]

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE — 12.5 TON [43.9kW] — 60 Hz — DOWNFLOW

Air Flow CFM [L/s]	Model RACDZ*150* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																							
	External Static Pressure — Inches of Water [kPa]																																								
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	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	RPM	W	RPM	W
4000 [1888]	766	1776	795	1806	824	1842	851	1883	878	1931	904	1985	929	2044	953	2110	976	2181	998	2259	1019	2342	1040	2431	1059	2526	1078	2627	1096	2734	1113	2847	1129	2966	1144	3091	1158	3221	1171	3358
4100 [1935]	778	1820	807	1856	835	1897	862	1944	888	1997	913	2056	937	2120	961	2191	983	2268	1005	2350	1026	2439	1045	2533	1064	2634	1082	2740	1099	2852	1116	2970	1131	3094	1145	3224	1159	3360	1171	3502
4200 [1982]	792	1875	820	1915	847	1961	873	2014	899	2072	923	2136	947	2206	969	2282	991	2364	1012	2451	1032	2545	1051	2645	1070	2750	1087	2862	1103	2979	1119	3102	1134	3232	1147	3367	1160	3508	1172	3655
4300 [2029]	806	1938	833	1984	859	2036	885	2093	910	2156	934	2226	957	2301	979	2382	1000	2469	1020	2562	1040	2661	1058	2766	1076	2877	1092	2993	1108	3116	1123	3244	1137	3379	1150	3519	1162	3665	1174	3818
4400 [2076]	820	2012	847	2063	873	2119	898	2182	922	2251	945	2325	967	2406	989	2492	1009	2584	1029	2682	1048	2787	1065	2897	1082	3013	1098	3134	1113	3262	1128	3396	1141	3536	1154	3681	1165	3833	1176	3990
4500 [2123]	835	2095	861	2151	886	2213	911	2281	934	2355	957	2434	978	2520	999	2611	1019	2709	1038	2812	1056	2922	1073	3037	1090	3158	1105	3285	1119	3418	1133	3557	1146	3702	1158	3853	1168	4009	1178	4172
4600 [2171]	851	2187	876	2249	901	2316	925	2389	947	2468	969	2553	990	2644	1010	2740	1030	2843	1048	2952	1065	3066	1082	3187	1097	3313	1112	3445	1126	3584	1139	3728	1151	3878	1162	4034	1172	4196	1182	4363
4700 [2218]	867	2290	892	2356	916	2428	939	2507	961	2591	982	2681	1003	2777	1022	2879	1041	2987	1058	3101	1075	3220	1091	3346	1106	3478	1120	3615	1133	3759	1145	3908	1157	4063	1167	4224	1177	4391	1186	4564
4800 [2265]	884	2401	908	2473	932	2551	954	2634	975	2723	996	2819	1016	2920	1034	3027	1052	3140	1069	3259	1085	3384	1101	3515	1115	3652	1128	3795	1141	3943	1153	4098	1163	4258	1173	4425	1182	4597	1190	4775
4900 [2312]	902	2523	925	2599	948	2682	969	2771	990	2866	1010	2966	1029	3073	1047	3185	1065	3303	1081	3427	1097	3558	1111	3694	1125	3836	1138	3984	1149	4137	1160	4297	1170	4463	1180	4634	1188	4812	1195	4995
5000 [2359]	920	2653	943	2736	965	2824	986	2917	1006	3017	1025	3123	1044	3235	1061	3352	1078	3476	1093	3605	1108	3741	1122	3882	1135	4029	1147	4182	1158	4341	1169	4506	1178	4677	1187	4854	1194	5036	1201	5225
5100 [2407]	939	2794	961	2881	982	2974	1003	3073	1022	3179	1041	3289	1058	3406	1075	3529	1091	3658	1106	3792	1120	3933	1134	4079	1146	4232	1158	4390	1168	4554	1178	4725	1187	4901	1194	5083	1201	5270	1208	5464
5200 [2454]	958	2944	980	3036	1000	3135	1020	3239	1039	3349	1057	3465	1074	3588	1090	3716	1105	3849	1120	3989	1133	4135	1146	4287	1158	4444	1168	4608	1178	4777	1187	4953	1196	5134	1203	5321	1209	5514	1215	5713
5300 [2501]	978	3103	999	3201	1019	3305	1038	3414	1056	3530	1074	3651	1090	3778	1106	3912	1120	4051	1134	4196	1147	4347	1159	4504	1170	4666	1180	4835	1189	5010	1198	5190	1205	5377	1212	5569	1217	5767	1222	5972
5400 [2548]	999	3273	1019	3376	1038	3484	1057	3599	1074	3720	1091	3846	1107	3979	1122	4117	1136	4261	1149	4412	1161	4568	1172	4730	1183	4898	1192	5072	1201	5252	1209	5438	1215	5629	1221	5827	1226	6030	—	—
5500 [2595]	1020	3451	1040	3559	1058	3673	1076	3793	1093	3919	1109	4051	1124	4189	1138	4332	1152	4482	1164	4637	1176	4799	1186	4966	1196	5139	1205	5318	1213	5503	1220	5694	1226	5891	—	—	—	—	—	—
5600 [2643]	1042	3640	1061	3753	1079	3872	1096	3997	1112	4128	1128	4265	1142	4408	1156	4557	1168	4712	1180	4872	1191	5039	1201	5212	1210	5390	1218	5574	1226	5765	—	—	—	—	—	—	—	—	—	—
5700 [2690]	1064	3838	1083	3956	1100	4080	1117	4211	1132	4347	1147	4489	1161	4637	1174	4791	1186	4951	1197	5117	1207	5289	1216	5467	1225	5650	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5800 [2737]	1088	4045	1105	4169	1122	4298	1138	4434	1153	4575	1167	4723	1180	4876	1192	5035	1204	5200	1214	5371	1224	5548	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5900 [2784]	1111	4262	1128	4391	1144	4526	1160	4666	1174	4813	1187	4966	1200	5124	1211	5289	1222	5459	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6000 [2831]	1136	4489	1152	4623	1167	4763	1182	4909	1196	5061	1208	5218	1220	5382	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

Drive Package	A/F						B/G					
Motor H.P. [W]	3 [1118.5]						5 [2237.1]					
Blower Sheave	AK71H						AK79H					
Motor Sheave	1VL44*7/8						1VP60*1x1/8					
Belt	A48						A52					
Turns Open	0	1	**2**	3	4	5	0	1	2	3	4	**5**
RPM	1003	958	**912**	863	814	764	1220	1171	1127	1085	1039	**994**

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.

Airflow	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
				Wet Coil	Vertical Economizer RA Damper Open	Concentric Diffuser RXRN-EGF3618 & Concentric Adapter RXMC-DD03 (Flush)	Concentric Diffuser RXRN-EGD3618 & Concentric Adapter RXMC-DD03 (Drop)
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	0.76 [.19]	0.68 [.17]
4100 [1935]	1.02	1.04	1.01	0.16 [.04]	0.17 [.04]	0.79 [.20]	0.72 [.18]
4200 [1982]	1.02	1.06	1.01	0.17 [.04]	0.19 [.05]	0.82 [.20]	0.75 [.19]
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	0.86 [.21]	0.79 [.20]
4400 [2076]	1.03	1.08	1.01	0.18 [.05]	0.21 [.05]	0.90 [.22]	0.83 [.21]
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	0.94 [.23]	0.86 [.21]
4600 [2171]	1.04	1.11	1.02	0.20 [.05]	0.24 [.06]	0.98 [.24]	0.89 [.22]
4700 [2218]	1.05	1.12	1.02	0.21 [.05]	0.26 [.06]	1.02 [.25]	0.94 [.23]
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.06 [.26]	0.98 [.24]
4900 [2312]	1.06	1.14	1.02	0.22 [.06]	0.29 [.07]	1.10 [.27]	1.01 [.25]
5000 [2359]	1.06	1.16	1.03	0.23 [.06]	0.31 [.08]	1.14 [.28]	1.04 [.26]
5100 [2407]	1.07	1.17	1.03	0.24 [.06]	0.33 [.08]	1.18 [.29]	1.07 [.27]
5200 [2454]	1.07	1.18	1.03	0.25 [.06]	0.35 [.09]	1.22 [.30]	1.10 [.27]
5300 [2501]	1.08	1.19	1.03	0.26 [.06]	0.36 [.09]	1.27 [.32]	1.15 [.29]
5400 [2548]	1.08	1.21	1.03	0.27 [.07]	0.38 [.09]	1.33 [.33]	1.20 [.30]
5500 [2595]	1.09	1.22	1.04	0.28 [.07]	0.40 [.10]	1.37 [.34]	1.25 [.31]
5600 [2643]	1.09	1.23	1.04	0.29 [.07]	0.42 [.10]	1.42 [.35]	1.30 [.32]
5700 [2690]	1.10	1.24	1.04	0.30 [.07]	0.44 [.11]	1.47 [.37]	1.34 [.33]
5800 [2737]	1.10	1.26	1.04	0.31 [.08]	0.46 [.11]	1.52 [.38]	1.38 [.34]
5900 [2784]	1.10	1.27	1.05	0.32 [.08]	0.48 [.12]	1.56 [.39]	1.42 [.35]
6000 [2831]	1.11	1.28	1.05	0.33 [.08]	0.51 [.13]	1.60 [.40]	1.45 [.36]

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE — 12.5 TON [43.9kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model RACDZ*150* Voltage 208/230, 460, 575 — 3 phase 60 Hz																																					
	External Static Pressure — Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	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	RPM	W
4000 [1888]	—	—	791	1757	819	1824	846	1892	872	1961	897	2031	922	2101	946	2173	970	2245	993	2318	1015	2392	1036	2467	1057	2542	1077	2619	1096	2696	1115	2774	1133	2853	1150	2933	1167	3014	1183	3095
4100 [1935]	782	1773	809	1841	836	1911	863	1982	888	2053	913	2125	937	2198	961	2272	984	2346	1006	2422	1027	2498	1048	2576	1068	2654	1088	2733	1106	2812	1124	2893	1142	2975	1158	3057	1174	3140	1189	3224
4200 [1982]	801	1860	828	1932	854	2004	880	2077	905	2150	929	2225	952	2300	975	2377	997	2454	1019	2532	1040	2611	1060	2691	1079	2771	1098	2853	1116	2935	1133	3018	1150	3102	1166	3187	1181	3272	1196	3359
4300 [2029]	819	1954	845	2028	871	2102	896	2177	920	2254	944	2331	967	2409	989	2488	1011	2567	1032	2648	1052	2729	1071	2811	1090	2894	1108	2978	1125	3063	1142	3149	1158	3235	1174	3323	1188	3411	1202	3500
4400 [2076]	837	2053	863	2129	888	2207	912	2284	936	2363	959	2443	981	2523	1003	2605	1024	2687	1044	2770	1064	2854	1082	2938	1101	3024	1118	3110	1135	3197	1151	3286	1166	3375	1181	3464	1195	3555	1208	3646
4500 [2123]	855	2159	880	2237	905	2317	929	2397	952	2479	974	2561	996	2644	1016	2727	1037	2812	1056	2897	1075	2984	1093	3071	1111	3159	1128	3248	1144	3338	1159	3428	1174	3520	1188	3612	1201	3705	1214	3799
4600 [2171]	873	2270	898	2351	921	2433	944	2516	967	2600	988	2684	1009	2770	1030	2856	1049	2943	1068	3031	1086	3120	1104	3210	1121	3300	1137	3392	1152	3484	1167	3577	1181	3671	1195	3766	1207	3861	1219	3958
4700 [2218]	891	2387	914	2471	938	2556	960	2641	982	2727	1003	2814	1023	2902	1043	2991	1062	3080	1080	3171	1097	3262	1114	3354	1130	3447	1146	3541	1161	3636	1175	3732	1188	3828	1201	3925	1213	4023	—	—
4800 [2265]	908	2511	931	2597	954	2684	975	2772	996	2860	1017	2950	1036	3040	1055	3132	1074	3224	1091	3317	1108	3410	1124	3505	1140	3601	1155	3697	1169	3794	1182	3892	1195	3991	1207	4091	1219	4191	—	—
4900 [2312]	925	2640	947	2729	969	2818	990	2908	1011	3000	1031	3092	1050	3184	1068	3278	1086	3373	1102	3468	1119	3565	1134	3662	1149	3760	1163	3859	1177	3958	1190	4059	1202	4160	1213	4262	—	—	—	—
5000 [2359]	942	2775	964	2866	985	2958	1005	3051	1025	3145	1044	3239	1062	3335	1080	3431	1097	3528	1113	3626	1129	3725	1144	3824	1158	3925	1172	4026	1185	4128	1197	4231	1208	4335	1219	4440	—	—	—	—
5100 [2407]	958	2916	979	3010	1000	3104	1020	3200	1039	3296	1057	3393	1075	3491	1092	3589	1108	3689	1124	3789	1139	3891	1153	3993	1167	4096	1180	4200	1192	4304	1204	4410	1214	4516	—	—	—	—	—	—
5200 [2454]	975	3063	995	3160	1015	3256	1034	3354	1053	3453	1070	3552	1087	3653	1104	3754	1120	3856	1135	3959	1149	4063	1162	4167	1175	4273	1188	4379	1199	4486	1210	4594	1220	4703	—	—	—	—	—	—
5300 [2501]	991	3217	1010	3315	1030	3415	1048	3515	1066	3616	1083	3718	1100	3821	1115	3924	1130	4029	1145	4134	1158	4241	1171	4348	1184	4456	1195	4564	1206	4674	1216	4785	—	—	—	—	—	—	—	—
5400 [2548]	1006	3376	1026	3477	1044	3579	1062	3681	1079	3785	1096	3889	1111	3995	1126	4101	1141	4208	1155	4316	1168	4425	1180	4534	1192	4645	1203	4756	1213	4868	—	—	—	—	—	—	—	—	—	—
5500 [2595]	1022	3541	1040	3644	1058	3749	1075	3854	1092	3960	1108	4067	1123	4175	1137	4283	1151	4393	1164	4503	1177	4614	1188	4726	1199	4839	1210	4953	1219	5068	—	—	—	—	—	—	—	—	—	—
5600 [2643]	1037	3712	1055	3818	1072	3924	1089	4032	1105	4141	1120	4250	1134	4361	1148	4472	1161	4584	1174	4697	1185	4810	1196	4925	1207	5040	1216	5156	—	—	—	—	—	—	—	—	—	—	—	—
5700 [2690]	1052	3888	1069	3997	1086	4106	1102	4217	1117	4328	1132	4440	1145	4552	1159	4666	1171	4780	1183	4896	1194	5012	1204	5129	1214	5247	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5800 [2737]	1067	4071	1083	4182	1099	4294	1115	4407	1129	4520	1143	4635	1156	4750	1169	4866	1181	4983	1192	5101	1202	5220	1212	5339	1221	5460	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5900 [2784]	1081	4260	1097	4374	1113	4488	1127	4603	1141	4719	1154	4836	1167	4954	1179	5073	1190	5192	1200	5312	1210	5433	1219	5555	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6000 [2831]	1095	4455	1111	4571	1126	4688	1139	4805	1153	4924	1165	5043	1177	5164	1188	5285	1199	5407	1209	5529	1218	5653	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

Drive Package	A/F						B/G					
Motor H.P. [W]	3 [2237.1]						5 [3728.5]					
Blower Sheave	AK71H						AK79H					
Motor Sheave	1VL44*7/8						1VP60*1x1/2					
Belt	A48						A52					
Turns Open	0	1	**2**	3	4	5	0	1	2	3	4	**5**
RPM	1002	955	**909**	862	813	765	1208	1171	1127	1084	1038	**995**

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	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE			
				Wet Coil	Horizontal Economizer RA Damper Open	Concentric Diffuser RXRN-EGF3618 & Concentric Adapter RXMC-DD03 (Flush)	Concentric Diffuser RXRN-EGD3618 & Concentric Adapter RXMC-DD03 (Drop)
CFM [L/s]	Total MBH	Sensible MBH	Power kW	Resistance — Inches of Water [kPa]			
4000 [1888]	1.01	1.03	1.01	0.15 [.04]	0.16 [.04]	0.76 [.19]	0.68 [.17]
4100 [1935]	1.02	1.04	1.01	0.16 [.04]	0.17 [.04]	0.79 [.20]	0.72 [.18]
4200 [1982]	1.02	1.06	1.01	0.17 [.04]	0.19 [.05]	0.82 [.20]	0.75 [.19]
4300 [2029]	1.03	1.07	1.01	0.17 [.04]	0.20 [.05]	0.86 [.21]	0.79 [.20]
4400 [2076]	1.03	1.08	1.01	0.18 [.05]	0.21 [.05]	0.90 [.22]	0.83 [.21]
4500 [2123]	1.04	1.09	1.02	0.19 [.05]	0.23 [.06]	0.94 [.23]	0.86 [.21]
4600 [2171]	1.04	1.11	1.02	0.20 [.05]	0.24 [.06]	0.98 [.24]	0.89 [.22]
4700 [2218]	1.05	1.12	1.02	0.21 [.05]	0.26 [.06]	1.02 [.25]	0.94 [.23]
4800 [2265]	1.05	1.13	1.02	0.21 [.05]	0.28 [.07]	1.06 [.26]	0.98 [.24]
4900 [2312]	1.06	1.14	1.02	0.22 [.06]	0.29 [.07]	1.10 [.27]	1.01 [.25]
5000 [2359]	1.06	1.16	1.03	0.23 [.06]	0.31 [.08]	1.14 [.28]	1.04 [.26]
5100 [2407]	1.07	1.17	1.03	0.24 [.06]	0.33 [.08]	1.18 [.29]	1.07 [.27]
5200 [2454]	1.07	1.18	1.03	0.25 [.06]	0.35 [.09]	1.22 [.30]	1.10 [.27]
5300 [2501]	1.08	1.19	1.03	0.26 [.06]	0.36 [.09]	1.27 [.32]	1.15 [.29]
5400 [2548]	1.08	1.21	1.03	0.27 [.07]	0.38 [.09]	1.33 [.33]	1.20 [.30]
5500 [2595]	1.09	1.22	1.04	0.28 [.07]	0.40 [.10]	1.37 [.34]	1.25 [.31]
5600 [2643]	1.09	1.23	1.04	0.29 [.07]	0.42 [.10]	1.42 [.35]	1.30 [.32]
5700 [2690]	1.10	1.24	1.04	0.30 [.07]	0.44 [.11]	1.47 [.37]	1.34 [.33]
5800 [2737]	1.10	1.26	1.04	0.31 [.08]	0.46 [.11]	1.52 [.38]	1.38 [.34]
5900 [2784]	1.10	1.27	1.05	0.32 [.08]	0.48 [.12]	1.56 [.39]	1.42 [.35]
6000 [2831]	1.11	1.28	1.05	0.33 [.08]	0.51 [.13]	1.60 [.40]	1.45 [.36]

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

XVIII. HEATER KIT CHARACTERISTICS

TABLE A: AUXILIARY HEATER KITS CHARACTERISTICS AND APPLICATION

208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size		Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208/240V	Over Current Protective Device Size	
							Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
RACDZR090ACA	No Heat	-----	-----	-----	-----	41/41	50/60	50/60	-----	-----	41/41	50/60	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	41/41	50/50	50/50	26/30	30/30	41/41	50/60	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	46/52	50/50	60/60	38/44	40/45	41/41	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	60/68	60/60	70/70	52/60	60/60	41/41	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/95	90/90	100/100	75/87	80/90	41/41	50/60	50/60
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	150/150	104/119	110/125	41/41	50/60	50/60
RACDZR090ACB RACDZR090ACC	No Heat	-----	-----	-----	-----	43/43	50/60	50/60	-----	-----	43/43	50/60	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	43/43	50/50	50/50	26/30	30/30	43/43	50/60	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	50/50	60/60	38/44	40/45	43/43	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	43/43	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	100/100	75/87	80/90	43/43	50/60	50/60
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	150/150	104/119	110/125	43/43	50/60	50/60
RACDZR102ACA	No Heat	-----	-----	-----	-----	44/44	60/70	60/70	-----	-----	44/44	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	60/60	60/60	26/30	30/30	44/44	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	47/53	60/60	60/60	38/44	40/45	44/44	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	61/69	70/70	70/70	52/60	60/60	44/44	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/96	90/90	100/100	75/87	80/90	44/44	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	150/150	104/119	110/125	44/44	60/70	60/70
RACDZR102ACB	No Heat	-----	-----	-----	-----	46/46	60/70	60/70	-----	-----	46/46	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	46/46	60/60	60/60	26/30	30/30	46/46	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	60/60	60/60	38/44	40/45	46/46	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	46/46	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	100/100	75/87	80/90	46/46	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	150/150	104/119	110/125	46/46	60/70	60/70
RACDZR102ACC	No Heat	-----	-----	-----	-----	49/49	60/70	60/70	-----	-----	49/49	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	49/49	60/60	60/60	26/30	30/30	49/49	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/60	60/60	38/44	40/45	49/49	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	52/60	60/60	49/49	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	75/87	80/90	49/49	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	104/119	110/125	49/49	60/70	60/70

208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size		Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208/240V	Over Current Protective Device Size	
							Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
RACDZR120ACA	No Heat	-----	-----	-----	-----	48/48	60/70	60/70	-----	-----	48/48	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	48/48	60/60	60/60	26/30	30/30	48/48	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	48/54	60/60	60/60	38/44	40/45	48/48	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	62/70	70/70	70/70	52/60	60/60	48/48	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	85/97	90/90	100/100	75/87	80/90	48/48	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	113/129	125/125	150/150	104/119	110/125	48/48	60/70	60/70
RACDZR120ACB	No Heat	-----	-----	-----	-----	51/51	60/70	60/70	-----	-----	51/51	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	51/51	60/60	60/60	26/30	30/30	51/51	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	51/56	60/60	60/60	38/44	40/45	51/51	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	65/73	70/70	80/80	52/60	60/60	51/51	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	75/87	80/90	51/51	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	116/132	125/125	150/150	104/119	110/125	51/51	60/70	60/70
RACDZR120ACC	No Heat	-----	-----	-----	-----	53/53	60/80	60/80	-----	-----	53/53	60/80	60/80
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	53/53	60/60	60/60	26/30	30/30	53/53	60/80	60/80
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/60	60/60	38/44	40/45	53/53	60/80	60/80
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	52/60	60/60	53/53	60/80	60/80
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	75/87	80/90	53/53	60/80	60/80
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	104/119	110/125	53/53	60/80	60/80
RACDZS090ACA RACDZS090ACF	No Heat	-----	-----	-----	-----	41/41	50/60	50/60	-----	-----	41/41	50/60	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	41/41	50/50	50/50	26/30	30/30	41/41	50/60	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	46/52	50/50	60/60	38/44	40/45	41/41	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	60/68	60/60	70/70	52/60	60/60	41/41	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/95	90/90	100/100	75/87	80/90	41/41	50/60	50/60
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	150/150	104/119	110/125	41/41	50/60	50/60
RACDZS090ACB RACDZS090ACF RACDZS090ACG RACDZS090ACH	No Heat	-----	-----	-----	-----	44/44	50/60	50/60	-----	-----	44/44	50/60	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	50/50	50/50	26/30	30/30	44/44	50/60	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	50/50	60/60	38/44	40/45	44/44	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	44/44	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	100/100	75/87	80/90	44/44	50/60	50/60
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	150/150	104/119	110/125	44/44	50/60	50/60

208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size		Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208/240V	Over Current Protective Device Size	
							Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
RACDZS102ACA	No Heat	-----	-----	-----	-----	46/46	60/70	60/70	-----	-----	46/46	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	46/46	60/60	60/60	26/30	30/30	46/46	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	47/52	60/60	60/60	38/44	40/45	46/46	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	61/69	70/70	70/70	52/60	60/60	46/46	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/96	90/90	100/100	75/87	80/90	46/46	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	150/150	104/119	110/125	46/46	60/70	60/70
RACDZS102ACB RACDZS102ACG	No Heat	-----	-----	-----	-----	48/48	60/70	60/70	-----	-----	48/48	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	48/48	60/60	60/60	26/30	30/30	48/48	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	60/60	60/60	38/44	40/45	48/48	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	48/48	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	100/100	75/87	80/90	48/48	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	150/150	104/119	110/125	48/48	60/70	60/70
RACDZS102ACC RACDZS102ACH	No Heat	-----	-----	-----	-----	51/51	60/70	60/70	-----	-----	51/51	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	51/51	60/60	60/60	26/30	30/30	51/51	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/60	60/60	38/44	40/45	51/51	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	52/60	60/60	51/51	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	75/87	80/90	51/51	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	104/119	110/125	51/51	60/70	60/70
RACDZS102ACF	No Heat	-----	-----	-----	-----	46/46	60/70	60/70	-----	-----	46/46	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	46/46	60/60	60/60	26/30	30/30	46/46	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	47/53	60/60	60/60	38/44	40/45	46/46	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	61/69	70/70	70/70	52/60	60/60	46/46	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/96	90/90	100/100	75/87	80/90	46/46	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	150/150	104/119	110/125	46/46	60/70	60/70
RACDZS120ACA RACDZS120ACF	No Heat	-----	-----	-----	-----	54/54	70/80	70/80	-----	-----	54/54	70/80	70/80
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	54/54	70/70	70/70	26/30	30/30	54/54	70/80	70/80
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	54/54	70/70	70/70	38/44	40/45	54/54	70/80	70/80
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	62/70	70/70	70/70	52/60	60/60	54/54	70/80	70/80
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	85/97	90/90	100/100	75/87	80/90	54/54	70/80	70/80
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	113/129	125/125	150/150	104/119	110/125	54/54	70/80	70/80

208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size		Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208/240V	Over Current Protective Device Size	
							Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
RACDZS120ACB RACDZS120ACG	No Heat	-----	-----	-----	-----	56/56	70/80	70/80	-----	-----	56/56	70/80	70/80
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	56/56	70/70	70/70	26/30	30/30	56/56	70/80	70/80
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	56/56	70/70	70/70	38/44	40/45	56/56	70/80	70/80
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	65/73	70/70	80/80	52/60	60/60	56/56	70/80	70/80
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	75/87	80/90	56/56	70/80	70/80
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	116/132	125/125	150/150	104/119	110/125	56/56	70/80	70/80
RACDZS120ACC RACDZS120ACH	No Heat	-----	-----	-----	-----	58/58	70/90	70/90	-----	-----	58/58	70/90	70/90
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	58/58	70/70	70/70	26/30	30/30	58/58	70/90	70/90
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	58/59	70/70	70/70	38/44	40/45	58/58	70/90	70/90
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	52/60	60/60	58/58	70/90	70/90
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	75/87	80/90	58/58	70/90	70/90
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	104/119	110/125	58/58	70/90	70/90
RACDZS150ACA RACDZS150ACF	No Heat	-----	-----	-----	-----	70/70	80/90	80/90	-----	-----	70/70	80/90	80/90
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	70/70	80/90	80/90	26/30	30/30	70/70	80/90	80/90
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	70/70	80/90	80/90	38/44	40/45	70/70	80/90	80/90
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	70/73	80/90	80/90	52/60	60/60	70/70	80/90	80/90
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	75/87	80/90	70/70	80/90	80/90
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	117/132	125/125	150/150	104/119	110/125	70/70	80/90	80/90
RACDZS150ACB RACDZS150ACG	No Heat	-----	-----	-----	-----	75/75	90/90	90/90	-----	-----	75/75	90/90	90/90
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	75/75	90/90	90/90	26/30	30/30	75/75	90/90	90/90
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	75/75	90/90	90/90	38/44	40/45	75/75	90/90	90/90
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	75/80	90/90	90/90	52/60	60/60	75/75	90/90	90/90
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	95/107	100/100	110/110	75/87	80/90	75/75	90/90	90/90
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	124/139	125/125	150/150	104/119	110/125	75/75	90/90	90/90
RACDZT090ACF	No Heat	-----	-----	-----	-----	41/41	50/60	50/60	-----	-----	41/41	50/60	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	41/41	50/50	50/50	26/30	30/30	41/41	50/60	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	46/52	50/50	60/60	38/44	40/45	41/41	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	60/68	60/60	70/70	52/60	60/60	41/41	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/95	90/90	100/100	75/87	80/90	41/41	50/60	50/60
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	150/150	104/119	110/125	41/41	50/60	50/60

208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size		Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208/240V	Over Current Protective Device Size	
							Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
RACDZT090ACG RACDZT090ACH	No Heat	-----	-----	-----	-----	44/44	50/60	50/60	-----	-----	44/44	50/60	50/60
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	44/44	50/50	50/50	26/30	30/30	44/44	50/60	50/60
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	50/50	60/60	38/44	40/45	44/44	50/60	50/60
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	44/44	50/60	50/60
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	100/100	75/87	80/90	44/44	50/60	50/60
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	150/150	104/119	110/125	44/44	50/60	50/60
RACDZT102ACF	No Heat	-----	-----	-----	-----	46/46	60/70	60/70	-----	-----	46/46	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	46/46	60/60	60/60	26/30	30/30	46/46	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	47/52	60/60	60/60	38/44	40/45	46/46	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	61/69	70/70	70/70	52/60	60/60	46/46	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	84/96	90/90	100/100	75/87	80/90	46/46	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	112/128	125/125	150/150	104/119	110/125	46/46	60/70	60/70
RACDZT102ACG	No Heat	-----	-----	-----	-----	48/48	60/70	60/70	-----	-----	48/48	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	48/48	60/60	60/60	26/30	30/30	48/48	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	49/55	60/60	60/60	38/44	40/45	48/48	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	63/71	70/70	80/80	52/60	60/60	48/48	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	87/98	90/90	100/100	75/87	80/90	48/48	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	115/131	125/125	150/150	104/119	110/125	48/48	60/70	60/70
RACDZT102ACH	No Heat	-----	-----	-----	-----	51/51	60/70	60/70	-----	-----	51/51	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	51/51	60/60	60/60	26/30	30/30	51/51	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	53/59	60/60	60/60	38/44	40/45	51/51	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	52/60	60/60	51/51	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	75/87	80/90	51/51	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	104/119	110/125	51/51	60/70	60/70
RACDZT120ACF	No Heat	-----	-----	-----	-----	54/54	70/80	70/80	-----	-----	54/54	70/80	70/80
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	54/54	70/70	70/70	26/30	30/30	54/54	70/80	70/80
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	54/54	70/70	70/70	38/44	40/45	54/54	70/80	70/80
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	62/70	70/70	70/70	52/60	60/60	54/54	70/80	70/80
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	85/97	90/90	100/100	75/87	80/90	54/54	70/80	70/80
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	113/129	125/125	150/150	104/119	110/125	54/54	70/80	70/80

208/240 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	RXJJ- Heater Kit Nominal kW	No. of Sequence Steps	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size		Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208/240V	Over Current Protective Device Size	
							Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
RACDZT120ACG	No Heat	-----	-----	-----	-----	56/56	70/80	70/80	-----	-----	56/56	70/80	70/80
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	56/56	70/70	70/70	26/30	30/30	56/56	70/80	70/80
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	56/56	70/70	70/70	38/44	40/45	56/56	70/80	70/80
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	65/73	70/70	80/80	52/60	60/60	56/56	70/80	70/80
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	75/87	80/90	56/56	70/80	70/80
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	116/132	125/125	150/150	104/119	110/125	56/56	70/80	70/80
RACDZT120ACH	No Heat	-----	-----	-----	-----	58/58	70/90	70/90	-----	-----	58/58	70/90	70/90
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	58/58	70/70	70/70	26/30	30/30	58/58	70/90	70/90
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	58/59	70/70	70/70	38/44	40/45	58/58	70/90	70/90
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	67/75	70/70	80/80	52/60	60/60	58/58	70/90	70/90
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	90/102	90/90	110/110	75/87	80/90	58/58	70/90	70/90
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	119/134	125/125	150/150	104/119	110/125	58/58	70/90	70/90
RACDZT150ACF	No Heat	-----	-----	-----	-----	51/51	60/70	60/70	-----	-----	51/51	60/70	60/70
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	51/51	60/70	60/70	26/30	30/30	51/51	60/70	60/70
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	51/57	60/70	60/70	38/44	40/45	51/51	60/70	60/70
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	65/73	70/70	80/80	52/60	60/60	51/51	60/70	60/70
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	88/100	90/90	100/100	75/87	80/90	51/51	60/70	60/70
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	117/132	125/125	150/150	104/119	110/125	51/51	60/70	60/70
RACDZT150ACG	No Heat	-----	-----	-----	-----	56/56	70/80	70/80	-----	-----	56/56	70/80	70/80
	DD10CP	1	7.4/9.9	25.25/33.78	20.6/23.8	56/56	70/80	70/80	26/30	30/30	56/56	70/80	70/80
	DD15CP	1	10.8/14.4	36.85/49.13	30.0/34.6	58/64	70/80	70/80	38/44	40/45	56/56	70/80	70/80
	DD20CP	1	14.9/19.8	50.84/67.56	41.3/47.6	72/80	80/80	80/80	52/60	60/60	56/56	70/80	70/80
	DD30CP	1	21.6/28.8	73.70/98.27	60.0/69.3	95/107	100/100	110/110	75/87	80/90	56/56	70/80	70/80
	DD40CP	1	29.7/39.6	101.34/135.12	82.5/95.2	124/139	125/125	150/150	104/119	110/125	56/56	70/80	70/80

480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Over Current Protective Device Size	
							Min./Max. @ 480 V					Min./Max. @ 480 V	
RACDZR090ADA	No Heat	-----	-----	-----	-----	21	25/30	-----	-----	-----	21	25/30	-----
	DD10DNV	1	9.9	33.78	11.9	21	25/25	-----	15	15	21	25/30	-----
	DD15DNV	1	14.4	49.13	17.3	26	30/30	-----	22	25	21	25/30	-----
	DD20DNV	1	19.8	67.56	23.8	34	35/35	-----	30	30	21	25/30	-----
	DD30DNV	1	28.8	98.27	34.6	48	50/50	-----	44	45	21	25/30	-----
	DD40DNV	1	39.6	135.12	47.6	64	70/70	-----	60	60	21	25/30	-----
RACDZR090ADB RACDZR090ADC	No Heat	-----	-----	-----	-----	23	30/35	-----	-----	-----	23	30/35	-----
	DD10DNV	1	9.9	33.78	11.9	23	30/30	-----	15	15	23	30/35	-----
	DD15DNV	1	14.4	49.13	17.3	28	30/30	-----	22	25	23	30/35	-----
	DD20DNV	1	19.8	67.56	23.8	36	40/40	-----	30	30	23	30/35	-----
	DD30DNV	1	28.8	98.27	34.6	49	50/50	-----	44	45	23	30/35	-----
	DD40DNV	1	39.6	135.12	47.6	66	70/70	-----	60	60	23	30/35	-----
RACDZR102ADA	No Heat	-----	-----	-----	-----	22	25/30	-----	-----	-----	22	25/30	-----
	DD10CP	1	36.2	123.52	45.6	62	70/70	-----	57	60	22	25/30	-----
	DD15CP	1	52.8	180.16	66.3	88	90/90	-----	83	90	22	25/30	-----
	DD20CP	1	72.9	248.75	91.3	119	125/125	-----	115	125	22	25/30	-----
	DD30CP	1	105.6	360.32	132.7	171	175/175	-----	166	175	22	25/30	-----
	DD40CP	1	145.3	495.78	182.5	233	250/250	-----	229	250	22	25/30	-----
RACDZR102ADB	No Heat	-----	-----	-----	-----	23	30/35	-----	-----	-----	23	30/35	-----
	DD10CP	1	36.2	123.52	45.6	63	70/70	-----	57	60	23	30/35	-----
	DD15CP	1	52.8	180.16	66.3	89	90/90	-----	83	90	23	30/35	-----
	DD20CP	1	72.9	248.75	91.3	120	125/125	-----	115	125	23	30/35	-----
	DD30CP	1	105.6	360.32	132.7	172	175/175	-----	166	175	23	30/35	-----
	DD40CP	1	145.3	495.78	182.5	234	250/250	-----	229	250	23	30/35	-----
RACDZR102ADC	No Heat	-----	-----	-----	-----	24	30/35	-----	-----	-----	24	30/35	-----
	DD10CP	1	36.2	123.52	45.6	65	70/70	-----	57	60	24	30/35	-----
	DD15CP	1	52.8	180.16	66.3	91	100/100	-----	83	90	24	30/35	-----
	DD20CP	1	72.9	248.75	91.3	122	125/125	-----	115	125	24	30/35	-----
	DD30CP	1	105.6	360.32	132.7	174	175/175	-----	166	175	24	30/35	-----
	DD40CP	1	145.3	495.78	182.5	236	250/250	-----	229	250	24	30/35	-----

480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Over Current Protective Device Size	
							Min./Max. @ 480 V					Min./Max. @ 480 V	
RACDZR120ADA	No Heat	-----	-----	-----	-----	26	30/35	-----	-----	-----	26	30/35	-----
	DD10DNV	1	9.9	33.78	11.9	26	30/30	-----	15	15	26	30/35	-----
	DD15DNV	1	14.4	49.13	17.3	27	30/30	-----	22	25	26	30/35	-----
	DD20DNV	1	19.8	67.56	23.8	35	35/35	-----	30	30	26	30/35	-----
	DD30DNV	1	28.8	98.27	34.6	49	50/50	-----	44	45	26	30/35	-----
	DD40DNV	1	39.6	135.12	47.6	65	70/70	-----	60	60	26	30/35	-----
RACDZR120ADB	No Heat	-----	-----	-----	-----	27	30/40	-----	-----	-----	27	30/40	-----
	DD10DNV	1	9.9	33.78	11.9	27	30/30	-----	15	15	27	30/40	-----
	DD15DNV	1	14.4	49.13	17.3	28	30/30	-----	22	25	27	30/40	-----
	DD20DNV	1	19.8	67.56	23.8	36	40/40	-----	30	30	27	30/40	-----
	DD30DNV	1	28.8	98.27	34.6	50	50/50	-----	44	45	27	30/40	-----
	DD40DNV	1	39.6	135.12	47.6	66	70/70	-----	60	60	27	30/40	-----
RACDZR120ADC	No Heat	-----	-----	-----	-----	28	35/40	-----	-----	-----	28	35/40	-----
	DD10DNV	1	9.9	33.78	11.9	28	35/35	-----	15	15	28	35/40	-----
	DD15DNV	1	14.4	49.13	17.3	30	35/35	-----	22	25	28	35/40	-----
	DD20DNV	1	19.8	67.56	23.8	38	40/40	-----	30	30	28	35/40	-----
	DD30DNV	1	28.8	98.27	34.6	51	60/60	-----	44	45	28	35/40	-----
	DD40DNV	1	39.6	135.12	47.6	67	70/70	-----	60	60	28	35/40	-----
RACDZS090ADA RACDZS090ADF	No Heat	-----	-----	-----	-----	17	20/25	-----	-----	-----	17	20/25	-----
	DD10DNV	1	9.9	33.78	11.9	19	20/20	-----	15	15	17	20/25	-----
	DD15DNV	1	14.4	49.13	17.3	26	30/30	-----	22	25	17	20/25	-----
	DD20DNV	1	19.8	67.56	23.8	34	35/35	-----	30	30	17	20/25	-----
	DD30DNV	1	28.8	98.27	34.6	48	50/50	-----	44	45	17	20/25	-----
	DD40DNV	1	39.6	135.12	47.6	64	70/70	-----	60	60	17	20/25	-----
RACDZS090ADB RACDZS090ADC RACDZS090ADG RACDZS090ADH	No Heat	-----	-----	-----	-----	19	25/25	-----	-----	-----	19	25/25	-----
	DD10DNV	1	9.9	33.78	11.9	27	30/30	-----	15	15	19	25/25	-----
	DD15DNV	1	14.4	49.13	17.3	33	35/35	-----	22	25	19	25/25	-----
	DD20DNV	1	19.8	67.56	23.8	42	45/45	-----	30	30	19	25/25	-----
	DD30DNV	1	28.8	98.27	34.6	55	60/60	-----	44	45	19	25/25	-----
	DD40DNV	1	39.6	135.12	47.6	71	80/80	-----	60	60	19	25/25	-----

480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Over Current Protective Device Size	
							Min./Max. @ 480 V					Min./Max. @ 480 V	
RACDZS102ADA RACDZS102ADF	No Heat	-----	-----	-----	-----	21	25/30	-----	-----	-----	21	25/30	-----
	DD10DNV	1	9.9	33.78	11.9	21	25/25	-----	15	15	21	25/30	-----
	DD15DNV	1	14.4	49.13	17.3	26	30/30	-----	22	25	21	25/30	-----
	DD20DNV	1	19.8	67.56	23.8	35	35/35	-----	30	30	21	25/30	-----
	DD30DNV	1	28.8	98.27	34.6	48	50/50	-----	44	45	21	25/30	-----
	DD40DNV	1	39.6	135.12	47.6	64	70/70	-----	60	60	21	25/30	-----
RACDZS102ADB RACDZS102ADG	No Heat	-----	-----	-----	-----	22	25/30	-----	-----	-----	22	25/30	-----
	DD10DNV	1	9.9	33.78	11.9	27	30/30	-----	15	15	22	25/30	-----
	DD15DNV	1	14.4	49.13	17.3	33	35/35	-----	22	25	22	25/30	-----
	DD20DNV	1	19.8	67.56	23.8	42	45/45	-----	30	30	22	25/30	-----
	DD30DNV	1	28.8	98.27	34.6	55	60/60	-----	44	45	22	25/30	-----
	DD40DNV	1	39.6	135.12	47.6	71	80/80	-----	60	60	22	25/30	-----
RACDZS102ADC	No Heat	-----	-----	-----	-----	24	30/35	-----	-----	-----	24	30/35	-----
	DD10DNV	1	9.9	33.78	11.9	27	30/30	-----	15	15	24	30/35	-----
	DD15DNV	1	14.4	49.13	17.3	33	35/35	-----	22	25	24	30/35	-----
	DD20DNV	1	19.8	67.56	23.8	42	45/45	-----	30	30	24	30/35	-----
	DD30DNV	1	28.8	98.27	34.6	55	60/60	-----	44	45	24	30/35	-----
	DD40DNV	1	39.6	135.12	47.6	71	80/80	-----	60	60	24	30/35	-----
RACDZS102ADH	No Heat	-----	-----	-----	-----	24	30/35	-----	-----	-----	24	30/35	-----
	DD10DNV	1	9.9	33.78	11.9	30	30/35	-----	15	15	24	30/35	-----
	DD15DNV	1	14.4	49.13	17.3	37	40/40	-----	22	25	24	30/35	-----
	DD20DNV	1	19.8	67.56	23.8	45	45/50	-----	30	30	24	30/35	-----
	DD30DNV	1	28.8	98.27	34.6	59	60/60	-----	44	45	24	30/35	-----
	DD40DNV	1	39.6	135.12	47.6	75	80/80	-----	60	60	24	30/35	-----
RACDZS120ADA RACDZS120ADF	No Heat	-----	-----	-----	-----	26	30/40	-----	-----	-----	26	30/40	-----
	DD10DNV	1	9.9	33.78	11.9	26	30/30	-----	15	15	26	30/40	-----
	DD15DNV	1	14.4	49.13	17.3	27	30/30	-----	22	25	26	30/40	-----
	DD20DNV	1	19.8	67.56	23.8	35	35/35	-----	30	30	26	30/40	-----
	DD30DNV	1	28.8	98.27	34.6	49	50/50	-----	44	45	26	30/40	-----
	DD40DNV	1	39.6	135.12	47.6	65	70/70	-----	60	60	26	30/40	-----

480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Over Current Protective Device Size	
							Min./Max. @ 480 V					Min./Max. @ 480 V	
RACDZS120ADB RACDZS120ADG	No Heat	-----	-----	-----	-----	32	40/45	-----	-----	-----	32	40/45	-----
	DD10DNV	1	9.9	33.78	11.9	32	40/40	-----	15	15	32	40/45	-----
	DD15DNV	1	14.4	49.13	17.3	35	40/40	-----	22	25	32	40/45	-----
	DD20DNV	1	19.8	67.56	23.8	43	45/45	-----	30	30	32	40/45	-----
	DD30DNV	1	28.8	98.27	34.6	56	60/60	-----	44	45	32	40/45	-----
	DD40DNV	1	39.6	135.12	47.6	73	80/80	-----	60	60	32	40/45	-----
RACDZS120ADC RACDZS120ADH	No Heat	-----	-----	-----	-----	34	40/45	-----	-----	-----	34	40/45	-----
	DD10DNV	1	9.9	33.78	11.9	34	40/40	-----	15	15	34	40/45	-----
	DD15DNV	1	14.4	49.13	17.3	37	40/40	-----	22	25	34	40/45	-----
	DD20DNV	1	19.8	67.56	23.8	45	45/50	-----	30	30	34	40/45	-----
	DD30DNV	1	28.8	98.27	34.6	59	60/60	-----	44	45	34	40/45	-----
	DD40DNV	1	39.6	135.12	47.6	75	80/80	-----	60	60	34	40/45	-----
RACDZS150ADA RACDZS150ADF	No Heat	-----	-----	-----	-----	34	40/40	-----	-----	-----	34	40/40	-----
	DD10DNV	1	9.9	33.78	11.9	34	40/40	-----	15	15	34	40/40	-----
	DD15DNV	1	14.4	49.13	17.3	34	40/40	-----	22	25	34	40/40	-----
	DD20DNV	1	19.8	67.56	23.8	37	40/40	-----	30	30	34	40/40	-----
	DD30DNV	1	28.8	98.27	34.6	50	50/50	-----	44	45	34	40/40	-----
	DD40DNV	1	39.6	135.12	47.6	66	70/70	-----	60	60	34	40/40	-----
RACDZS150ADB RACDZS150ADG	No Heat	-----	-----	-----	-----	37	40/45	-----	-----	-----	37	40/45	-----
	DD10DNV	1	9.9	33.78	11.9	37	40/45	-----	15	15	37	40/45	-----
	DD15DNV	1	14.4	49.13	17.3	37	40/45	-----	22	25	37	40/45	-----
	DD20DNV	1	19.8	67.56	23.8	40	40/45	-----	30	30	37	40/45	-----
	DD30DNV	1	28.8	98.27	34.6	54	60/60	-----	44	45	37	40/45	-----
	DD40DNV	1	39.6	135.12	47.6	70	70/70	-----	60	60	37	40/45	-----
RACDZT090ADF	No Heat	-----	-----	-----	-----	21	20/25	-----	-----	-----	21	20/25	-----
	DD10DNV	1	9.9	33.78	11.9	21	20/25	-----	15	15	21	20/25	-----
	DD15DNV	1	14.4	49.13	17.3	26	30/30	-----	22	25	21	20/25	-----
	DD20DNV	1	19.8	67.56	23.8	34	35/35	-----	30	30	21	20/25	-----
	DD30DNV	1	28.8	98.27	34.6	48	50/50	-----	44	45	21	20/25	-----
	DD40DNV	1	39.6	135.12	47.6	64	70/70	-----	60	60	21	20/25	-----

480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Over Current Protective Device Size	
							Min./Max. @ 480 V					Min./Max. @ 480 V	
RACDZT090ADG RACDZT090ADH	No Heat	-----	-----	-----	-----	21	30/30	-----	-----	-----	21	30/30	-----
	DD10DNV	1	9.9	33.78	11.9	27	30/30	-----	15	15	21	30/30	-----
	DD15DNV	1	14.4	49.13	17.3	33	35/35	-----	22	25	21	30/30	-----
	DD20DNV	1	19.8	67.56	23.8	42	45/45	-----	30	30	21	30/30	-----
	DD30DNV	1	28.8	98.27	34.6	55	60/60	-----	44	45	21	30/30	-----
	DD40DNV	1	39.6	135.12	47.6	71	80/80	-----	60	60	21	30/30	-----
RACDZT102ADF	No Heat	-----	-----	-----	-----	21	25/30	-----	-----	-----	21	25/30	-----
	DD10DNV	1	9.9	33.78	11.9	21	25/25	-----	15	15	21	25/30	-----
	DD15DNV	1	14.4	49.13	17.3	26	30/30	-----	22	25	21	25/30	-----
	DD20DNV	1	19.8	67.56	23.8	35	35/35	-----	30	30	21	25/30	-----
	DD30DNV	1	28.8	98.27	34.6	48	50/50	-----	44	45	21	25/30	-----
	DD40DNV	1	39.6	135.12	47.6	64	70/70	-----	60	60	21	25/30	-----
RACDZT102ADG	No Heat	-----	-----	-----	-----	22	30/35	-----	-----	-----	22	30/35	-----
	DD10DNV	1	9.9	33.78	11.9	27	30/30	-----	15	15	22	30/35	-----
	DD15DNV	1	14.4	49.13	17.3	33	35/35	-----	22	25	22	30/35	-----
	DD20DNV	1	19.8	67.56	23.8	42	45/45	-----	30	30	22	30/35	-----
	DD30DNV	1	28.8	98.27	34.6	55	60/60	-----	44	45	22	30/35	-----
	DD40DNV	1	39.6	135.12	47.6	71	80/80	-----	60	60	22	30/35	-----
RACDZT102ADH	No Heat	-----	-----	-----	-----	30	35/40	-----	-----	-----	30	35/40	-----
	DD10DNV	1	9.9	33.78	11.9	30	35/35	-----	15	15	30	35/40	-----
	DD15DNV	1	14.4	49.13	17.3	37	40/40	-----	22	25	30	35/40	-----
	DD20DNV	1	19.8	67.56	23.8	45	45/50	-----	30	30	30	35/40	-----
	DD30DNV	1	28.8	98.27	34.6	59	60/60	-----	44	45	30	35/40	-----
	DD40DNV	1	39.6	135.12	47.6	75	80/80	-----	60	60	30	35/40	-----
RACDZT120ADF	No Heat	-----	-----	-----	-----	26	30/40	-----	-----	-----	26	30/40	-----
	DD10DNV	1	9.9	33.78	11.9	26	30/30	-----	15	15	26	30/40	-----
	DD15DNV	1	14.4	49.13	17.3	27	30/30	-----	22	25	26	30/40	-----
	DD20DNV	1	19.8	67.56	23.8	35	35/35	-----	30	30	26	30/40	-----
	DD30DNV	1	28.8	98.27	34.6	49	50/50	-----	44	45	26	30/40	-----
	DD40DNV	1	39.6	135.12	47.6	65	70/70	-----	60	60	26	30/40	-----

480 VOLT, THREE PHASE, 60 Hz, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Single Power Supply for Both Unit and Heater Kit									Separate Power Supply for Both Unit and Heater Kit				
RHEEM Model Number	Heater Kit					Air Conditioner			Heater Kit		Air Conditioner		
	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	Over Current Protective Device Size		Min. Ckt. Ampacity 480V	Max. Fuse Size 480V	Min. Circuit Ampacity 480V	Over Current Protective Device Size	
							Min./Max. @ 480 V					Min./Max. @ 480 V	
RACDZT120ADG	No Heat	-----	-----	-----	-----	32	40/45	-----	-----	-----	32	40/45	-----
	DD10DNV	1	9.9	33.78	11.9	32	40/40	-----	15	15	32	40/45	-----
	DD15DNV	1	14.4	49.13	17.3	35	40/40	-----	22	25	32	40/45	-----
	DD20DNV	1	19.8	67.56	23.8	43	45/45	-----	30	30	32	40/45	-----
	DD30DNV	1	28.8	98.27	34.6	56	60/60	-----	44	45	32	40/45	-----
	DD40DNV	1	39.6	135.12	47.6	73	80/80	-----	60	60	32	40/45	-----
RACDZT120ADH	No Heat	-----	-----	-----	-----	34	40/45	-----	-----	-----	34	40/45	-----
	DD10DNV	1	9.9	33.78	11.9	34	40/40	-----	15	15	34	40/45	-----
	DD15DNV	1	14.4	49.13	17.3	37	40/40	-----	22	25	34	40/45	-----
	DD20DNV	1	19.8	67.56	23.8	45	45/50	-----	30	30	34	40/45	-----
	DD30DNV	1	28.8	98.27	34.6	59	60/60	-----	44	45	34	40/45	-----
	DD40DNV	1	39.6	135.12	47.6	75	80/80	-----	60	60	34	40/45	-----
RACDZT150ADF	No Heat	-----	-----	-----	-----	26	30/35	-----	-----	-----	26	30/35	-----
	DD10DNV	1	9.9	33.78	11.9	26	30/35	-----	15	15	26	30/35	-----
	DD15DNV	1	14.4	49.13	17.3	29	30/35	-----	22	25	26	30/35	-----
	DD20DNV	1	19.8	67.56	23.8	37	40/40	-----	30	30	26	30/35	-----
	DD30DNV	1	28.8	98.27	34.6	50	50/50	-----	44	45	26	30/35	-----
	DD40DNV	1	39.6	135.12	47.6	66	70/70	-----	60	60	26	30/35	-----
RACDZT150ADG	No Heat	-----	-----	-----	-----	29	35/40	-----	-----	-----	29	35/40	-----
	DD10DNV	1	9.9	33.78	11.9	29	35/40	-----	15	15	29	35/40	-----
	DD15DNV	1	14.4	49.13	17.3	32	35/40	-----	22	25	29	35/40	-----
	DD20DNV	1	19.8	67.56	23.8	40	40/40	-----	30	30	29	35/40	-----
	DD30DNV	1	28.8	98.27	34.6	54	60/60	-----	44	45	29	35/40	-----
	DD40DNV	1	39.6	135.12	47.6	70	70/70	-----	60	60	29	35/40	-----

Alarm Codes for 47-102884-02

CODE	Description	Display Priority (lower number = higher priority)	FAULT LEVEL – 0,1,2,3*
0	STANDBY	41	0
C	COMPRESSOR ON – High (Flashing if in time delay)	35	0
c	COMPRESSOR ON – Low (Flashing if in time delay)	36	0
H	HEAT ON – High Stage	37	0
h	HEAT ON – Low Stage	38	0
E	Economizer Cooling – No Compressor	39	0
F	CONTINOUS FAN	40	0
4	Comfort Alert Code 4 for Compressor Circuit 1	20	3
5	Comfort Alert Code 5 for Compressor Circuit 1	21	3
6	Comfort Alert Code 6 for Compressor Circuit 1	22	3
7	Comfort Alert Code 7 for Compressor Circuit 1	23	3
8	Comfort Alert Code 8 for Compressor Circuit 1	24	3
9	Comfort Alert Code 9 for Compressor Circuit 1	25	3
20	REFRIGERANT LOW PRESSURE SWITCH OPEN – CIRCUIT 1	11	2
21	REFRIGERANT LOW PRESSURE SWITCH OPEN – CIRCUIT 2	12	2
29	REFRIGERANT HIGH PRESSURE SWITCH OPEN – CIRCUIT 1	9	2
30	REFRIGERANT HIGH PRESSURE SWITCH OPEN – CIRCUIT 2	10	2
34	Comfort Alert Code 4 for Compressor Circuit 2	26	3
35	Comfort Alert Code 5 for Compressor Circuit 2	27	3
36	Comfort Alert Code 6 for Compressor Circuit 2	28	3
37	Comfort Alert Code 7 for Compressor Circuit 2	29	3
38	Comfort Alert Code 8 for Compressor Circuit 2	30	3
39	Comfort Alert Code 9 for Compressor Circuit 2	31	3
49	FREEZE SWITCH OPEN – CIRCUIT 1	32	2*
50	FREEZE SWITCH OPEN -CIRCUIT 2	33	2*
59	Water Sensed	6	3
88	Emergency Stop Fault	3	3
93	CONTROL FLT	1	3
97	Smoke Detection	2	3

*Fault levels:0 = none, 1=warning, 2= problem, 3=shutdown

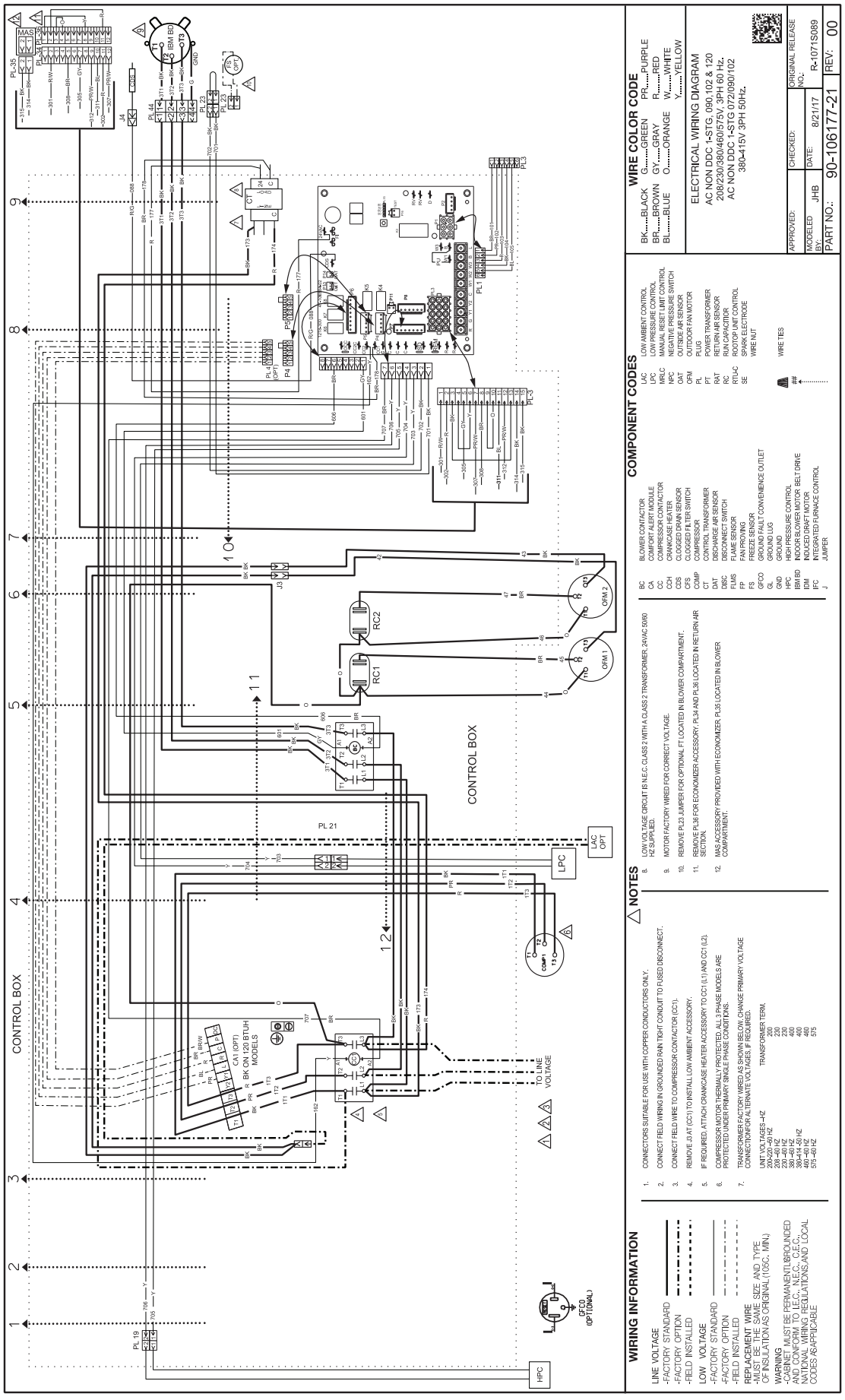
XIX. TROUBLESHOOTING CHART

⚠ 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	• 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	• 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	• Run capacitor defective (single phase only) • Loose connection • Compressor stuck, grounded or open motor winding open internal overload. • Low voltage condition	• 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	• Improperly sized unit • Improper airflow • Incorrect refrigerant charge • Air, non-condensibles or moisture in system • Incorrect voltage	• Recalculate load • Check - should be approximately 400 CFM [188.78 L/s] 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	• Incorrect voltage • Defective overload protector • Refrigerant undercharge	• At compressor terminals, voltage must be ± 10% of nameplate marking when unit is operating. • Replace - check for correct voltage • Add refrigerant
Registers sweat	• Low evaporator airflow • Room thermostat set too low	• Increase speed of blower or reduce restriction - replace air filter • Raise thermostat set point
High head-low vapor pressures	• Restriction in liquid line, expansion device or filter drier • Flow check piston size too small • Incorrect capillary tubes	• Remove or replace defective component • Change to correct size piston • Change coil assembly
High head-high or normal vapor pressure - Cooling mode	• Dirty condenser coil • Refrigerant overcharge • Condenser fan not running • Air or non-condensibles in system	• Clean coil • Correct system charge • Repair or replace • Recover refrigerant, evacuate & recharge
High head-high or normal vapor pressure - Heating mode	• Low air flow - condenser coil • Refrigerant overcharge • Air or non-condensibles in system • Dirty condenser coil	• Check filters - correct to speed • Correct system charge • Recover refrigerant, evacuate & recharge • Check filter - clean coil
Low head-high vapor pressures	• Defective Compressor valves	• Replace compressor
Low vapor - cool compressor - iced evaporator coil	• Low evaporator airflow • Operating below 65°F outdoors • Moisture in system • Liquid line limiting refrigerant flow	• Increase speed of blower or reduce restriction - replace air filter • Add Low Ambient Kit • Recover refrigerant - evacuate & recharge - add filter drier • Replace drier
High vapor pressure	• Excessive load • Defective compressor	• Recheck load calculation • Replace
Fluctuating head & vapor pressures	• Severe overcharge • Air or non-condensibles in system	• Adjust refrigerant charge • Recover refrigerant, evacuate & recharge
Gurgle or pulsing noise at expansion device or liquid line	• Air or non-condensibles in system	• Recover refrigerant, evacuate & recharge

XX. WIRING DIAGRAMS



WIRING INFORMATION

LINE VOLTAGE
- -FACTORY STANDARD ——————
- -FACTORY OPTION ——————
- -FIELD INSTALLED - - - - - -

LOW VOLTAGE
- -FACTORY STANDARD ——————
- -FACTORY OPTION ——————
- -FIELD INSTALLED - - - - - -

REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105C. MIN.)

WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C., NEC., C.E.C., AND LOCAL NATIONAL WIRING REGULATIONS AND LOCAL CODES IF APPLICABLE

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
3. CONNECT FIELD WIRE TO COMPRESSOR CONTACTOR (CC1).
4. REMOVE JS AT (CC1) TO INSTALL LOW AMBIENT ACCESSORY.
5. IF REQUIRED, ATTACH CRANKCASE HEATER ACCESSORY TO CC1 (L1) AND CC1 (L2).
6. COMPRESSOR MOTOR THERMALLY PROTECTED, ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
7. TRANSFORMER FACTORY WIRED AS SHOWN BELOW, CHANGE PRIMARY VOLTAGE CONNECTION FOR ALTERNATE VOLTAGES, IF REQUIRED.

UNIT VOLTAGES--HZ	TRANSFORMER TERM.
200/220-60 HZ	200
208-60 HZ	230
230-60 HZ	230
380-60 HZ	400
380-414-50 HZ	400
460-60 HZ	460
575-60 HZ	575

8. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24 VAC 50/60 HZ SUPPLIED.
9. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
10. REMOVE PL23 JUMPER FOR OPTIONAL FT LOCATED IN BLOWER COMPARTMENT.
11. REMOVE PL36 FOR ECONOMIZER ACCESSORY. PL34 AND PL36 LOCATED IN RETURN AIR SECTION.
12. MAS ACCESSORY PROVIDED WITH ECONOMIZER. PL35 LOCATED IN BLOWER COMPARTMENT.

COMPONENT CODES

BC	BLOWER CONTACTOR
CA	COMFORT ALERT MODULE
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
CDS	CLOGGED DRAIN SENSOR
CFS	CLOGGED FILTER SWITCH
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DAT	DISCHARGE AIR SENSOR
DISC	DISCONNECT SWITCH
FLMS	FLAME SENSOR
FP	FAN PROVING
FS	FREEZE SENSOR
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM BD	INDOOR BLOWER MOTOR BELT DRIVE
IDM	INDUCED DRAFT MOTOR
IFC	INTEGRATED FURNACE CONTROL
J	JUMPER
LAC	LOW AMBIENT CONTROL
LPC	LOW PRESSURE CONTROL
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE SWITCH
OAT	OUTSIDE AIR SENSOR
OFM	OUTDOOR FAN MOTOR
PL	PLUG
PT	POWER TRANSFORMER
RAT	RETURN AIR SENSOR
RC	RUN CAPACITOR
RTUC	ROOFTOP UNIT CONTROL
SE	SPARK ELECTRODE
	WIRE NUT
	WIRE TIES

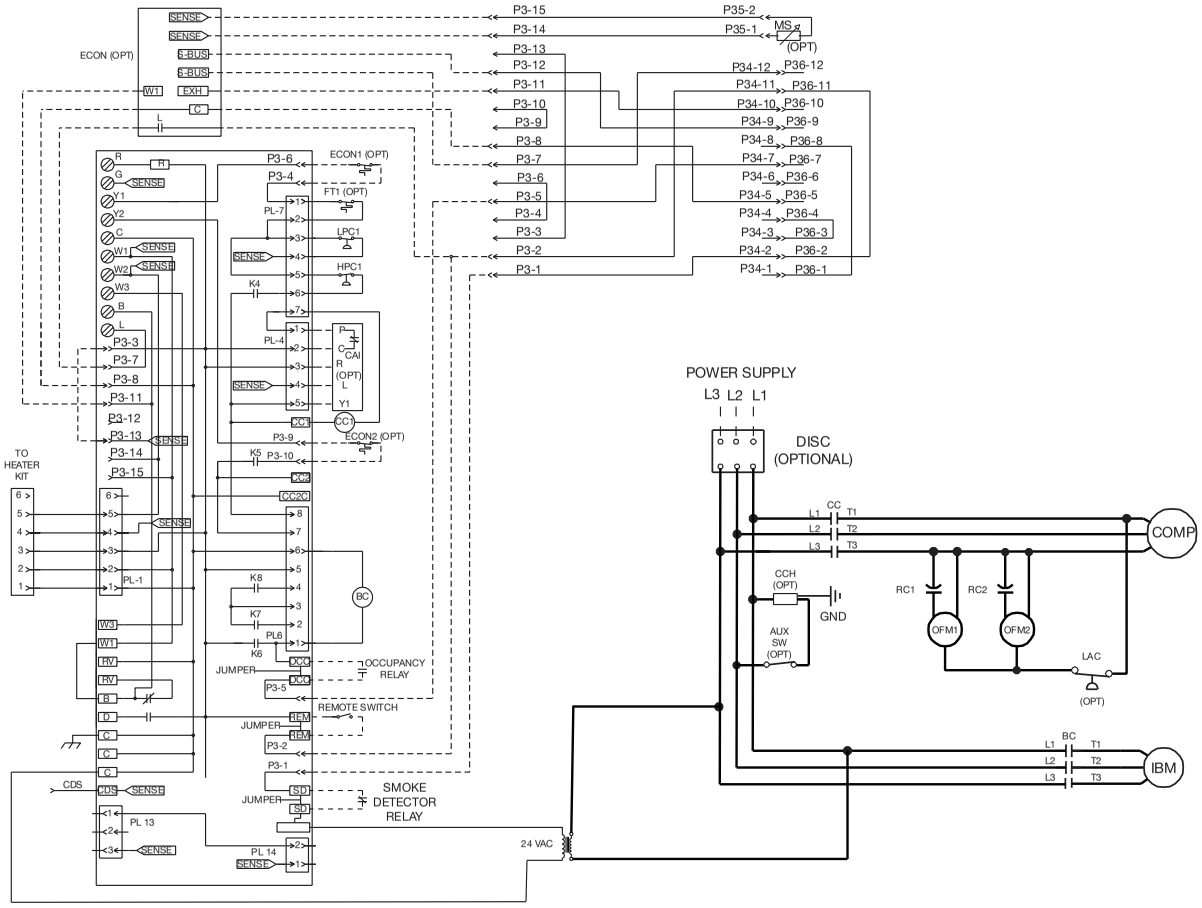
WIRE COLOR CODE

BK	BLACK	G	GREEN
BR	BROWN	GY	GRAY
BL	BLUE	O	ORANGE
PR	PURPLE	R	RED
W	WHITE	Y	YELLOW

ELECTRICAL WIRING DIAGRAM

AC NON DDC 1-STG 090,102 & 120
208/230/380/460/575V, 3PH 60 Hz.
AC NON DDC 1-STG 072/090/102
380-415V 3PH 50Hz.

APPROVED:		CHECKED:	ORIGINAL RELEASE NO.:
MODELED BY:	JHB	DATE: 8/21/17	R-1071S089
PART NO.:	90-106177-21		REV: 00



ALARM CODES

CODE	Description	FAULT LEVEL –0,1,2,3*
0	STANDBY	0
c	COMPRESSOR ON – Low (Flashing if in time delay)	0
C	COMPRESSOR ON – High (Flashing if in time delay)	0
E	Economizer Cooling – No Compressor	0
F	CONTINOUS FAN	0
h	HEAT ON – Low Stage	0
H	GAS HEAT ON – High Stage	0
4	Comfort Alert Code 4 for Compressor Circuit 1	3
5	Comfort Alert Code 5 for Compressor Circuit 1	3
6	Comfort Alert Code 6 for Compressor Circuit 1	3
7	Comfort Alert Code 7 for Compressor Circuit 1	3
8	Comfort Alert Code 8 for Compressor Circuit 1	3
9	Comfort Alert Code 9 for Compressor Circuit 1	3
11	FAILED IGNITION	2
12	LO FLAME SENSE	1
13	FLAME LOST	2
14	UNEXPECTED FLAME	3
15	2ND Stage Gas valve improper voltage	2
20	REFRIGERANT LOW PRESSURE SWITCH OPEN – CIRCUIT 1	2
21	REFRIGERANT LOW PRESSURE SWITCH OPEN – CIRCUIT 2	2
22	MAIN LIMIT OPEN	2
29	REFRIGERANT HIGH PRESSURE SWITCH OPEN – CIRCUIT 1	2
30	REFRIGERANT HIGH PRESSURE SWITCH OPEN – CIRCUIT 2	2
33	MRLC (Rollout Limit) OPEN	2
34	Comfort Alert Code 4 for Compressor Circuit 2	3
35	Comfort Alert Code 5 for Compressor Circuit 2	3
36	Comfort Alert Code 6 for Compressor Circuit 2	3
37	Comfort Alert Code 7 for Compressor Circuit 2	3
38	Comfort Alert Code 8 for Compressor Circuit 2	3
39	Comfort Alert Code 9 for Compressor Circuit 2	3
44	1ST Stage COMBUSTION PRESS SWITCH CLOSED	2
46	1st Stage COMBUSTION PRESS SWITCH OPEN	2
49	FREEZE SWITCH OPEN – CIRCUIT 1	2
50	FREEZE SWITCH OPEN -CIRCUIT 2	2
55	2ND Stage COMBUSTION PRESS SWITCH CLOSED	2
57	2ND Stage COMBUSTION PRESS SWITCH OPEN	2,3
59	Condensate Drain Plugged	3
61	Blower Fault – NO RUN	3
83	Condenser Coil Temp Sensor Fail-OCT	2
84	Outdoor Air Temperature Sensor Fail-OAT	2
88	Emergency Stop Fault	3
93	CONTROL Fault	3
97	Smoke Detection	3

*Fault levels:0 = none, 1=warning, 2= problem, 3=shutdown

WIRING INFORMATION

LINE VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

LOW VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)

WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
3. CONNECT FIELD WIRE TO COMPRESSOR CONTACTOR (CC1).
4. REMOVE J3 AT (CC1) TO INSTALL LOW AMBIENT ACCESSORY.
5. IF REQUIRED, ATTACH CRANKCASE HEATER ACCESSORY TO CC1 (L1) AND CC1 (L2).
6. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
7. TRANSFORMER FACTORY WIRED AS SHOWN BELOW. CHANGE PRIMARY VOLTAGE CONNECTIONS FOR ALTERNATE VOLTAGES, IF REQUIRED.

UNIT VOLTAGES - HZ	TRANSFORMER TERM.
200-220 - 50HZ	200
208 - 60HZ	208
230 - 60HZ	230
380 - 60HZ	400
380-414 - 50HZ	400
460 - 60HZ	460
575 - 60HZ	575

8. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24VAC 50/60 HZ SUPPLIED.
9. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
10. REMOVE PL36 FOR ECOMOMIZER ACCESSORY. PL34 AND PL36 LOCATED IN

COMPONENT CODES

BC	BLOWER CONTACTOR
CA	COMFORT ALERT MODULE
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
CDS	CLOG DRAIN SENSOR
CFS	CLOGGED FILTER SWITCH
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DAT	DISCHARGE AIR ESENSOR
DISC	DISCONNECT SWITCH
ELM	ECONOMIZER LOGIC MODULE
FLMS	FLAME SENSOR
FP	FAN PROVING
FS	FREEZE SENSOR
FT	FREEZE STAT
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
IDM	INDUCED DRAFT MOTOR
IFC	INTEGRATED FURNACE CONTROL
LAC	LOW AMBIENT CONTROL
LPC	LOW PRESSURE CONTROL
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE SWITCH
OAT	OUTSIDE AIR SENSOR
OFM	OUTDOOR FAN MOTOR
PL	PLUG
PT	POWER TRANSFORMER
RAT	RETURN AIR SENSOR
RC	RUN CAPACITOR
RTU-C	ROOFTOP UNIT CONTROL
SE	SPARK ELECTRODE
TB	TERMINAL BLOCK

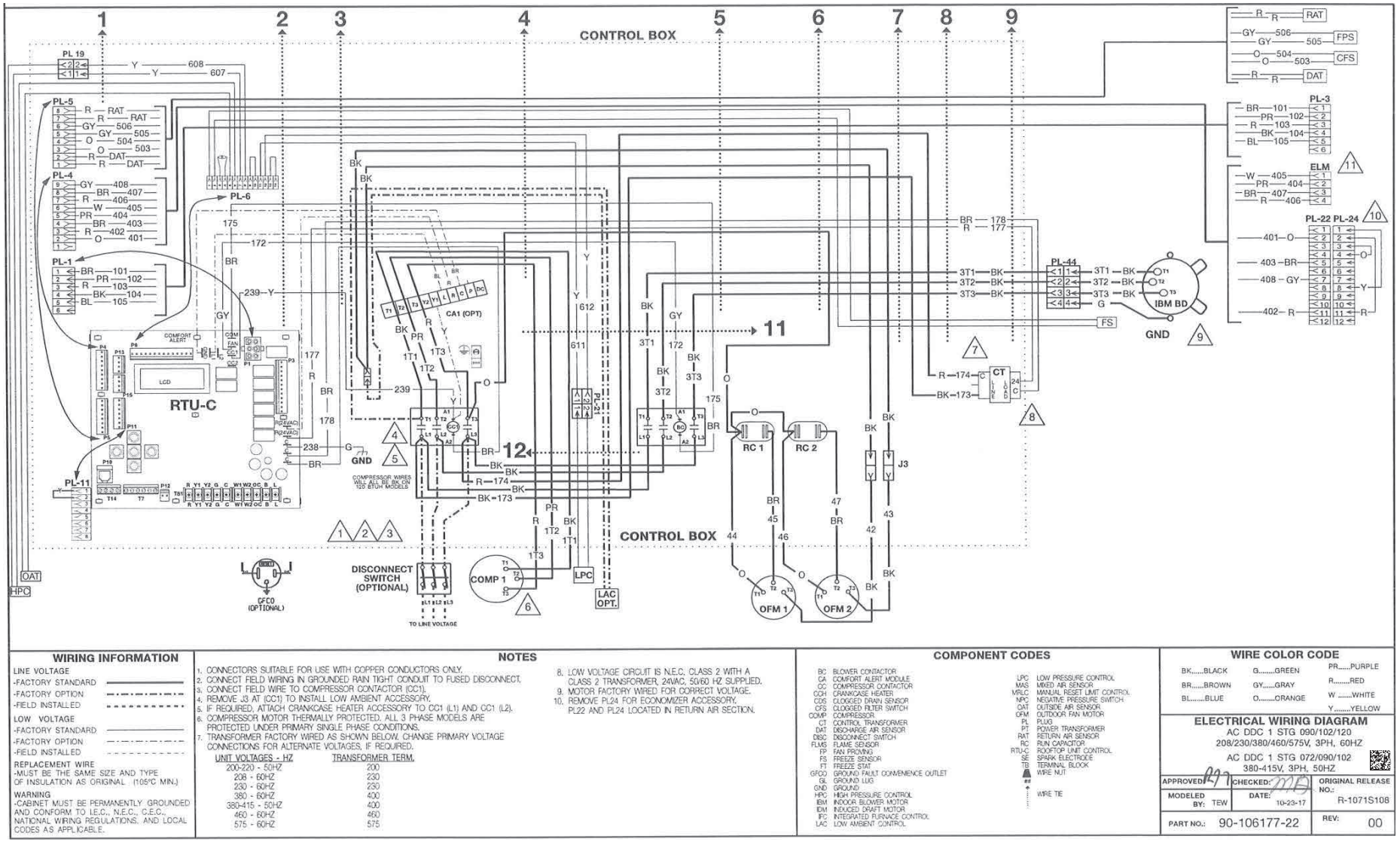
WIRE COLOR CODE

BK.....BLACK	G.....GREEN	PR.....PURPLE
BR.....BROWN	GY.....GRAY	R.....RED
BL.....BLUE	O.....ORANGE	W.....WHITE
		Y.....YELLOW

ELECTRICAL WIRING SCHEMATIC

AC NON DDC 1-STG, 090/102/120
208/230/380/460/575V, 3PH 60 Hz.
AC NON DDC 1-STG 072/090/102
380-415V 3PH 50Hz.

APPROVED:	CHECKED:	ORIGINAL RELEASE NO.: R-1071S089
MODELED BY: TCJW	DATE: 10-18-17	
PART NO.: 90-106178-21		REV: 00



WIRING INFORMATION

LINE VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

LOW VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)

WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
3. CONNECT FIELD WIRE TO COMPRESSOR CONTACTOR (CC1).
4. REMOVE J3 AT (CC1) TO INSTALL LOW AMBIENT ACCESSORY.
5. IF REQUIRED, ATTACH CRANKCASE HEATER ACCESSORY TO CC1 (L1) AND CC1 (L2).
6. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
7. TRANSFORMER FACTORY WIRED AS SHOWN BELOW. CHANGE PRIMARY VOLTAGE CONNECTIONS FOR ALTERNATE VOLTAGES, IF REQUIRED.

UNIT VOLTAGES - HZ	TRANSFORMER TERM.
200-220 - 50HZ	200
208 - 60HZ	230
230 - 60HZ	230
380 - 60HZ	400
380-415 - 50HZ	400
460 - 60HZ	460
575 - 60HZ	575

8. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24VAC, 50/60 HZ SUPPLIED.
9. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
10. REMOVE PL24 FOR ECONOMIZER ACCESSORY. PL22 AND PL24 LOCATED IN RETURN AIR SECTION.

COMPONENT CODES

BC	BLOWER CONTACTOR
CA	COMFORT ALERT MODULE
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
CDS	CLOGGED DRAIN SENSOR
CFS	CLOGGED FILTER SWITCH
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DAT	DISCHARGE AIR SENSOR
DISC	DISCONNECT SWITCH
FLMS	FLAME SENSOR
FP	FAN PROVING
FS	FREEZE SENSOR
FT	FREEZE STAT
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
IDM	INDUCED DRAFT MOTOR
IFC	INTEGRATED FURNACE CONTROL
LAC	LOW AMBIENT CONTROL
LPC	LOW PRESSURE CONTROL
MAS	MIXED AIR SENSOR
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE SWITCH
OAT	OUTSIDE AIR SENSOR
OFM	OUTDOOR FAN MOTOR
PL	PLUG
PT	POWER TRANSFORMER
RAT	RETURN AIR SENSOR
RC	RUN CAPACITOR
RTU-C	ROOFTOP UNIT CONTROL
SE	SPARK ELECTRODE
TB	TERMINAL BLOCK
	WIRE NUT
##	WIRE TIE

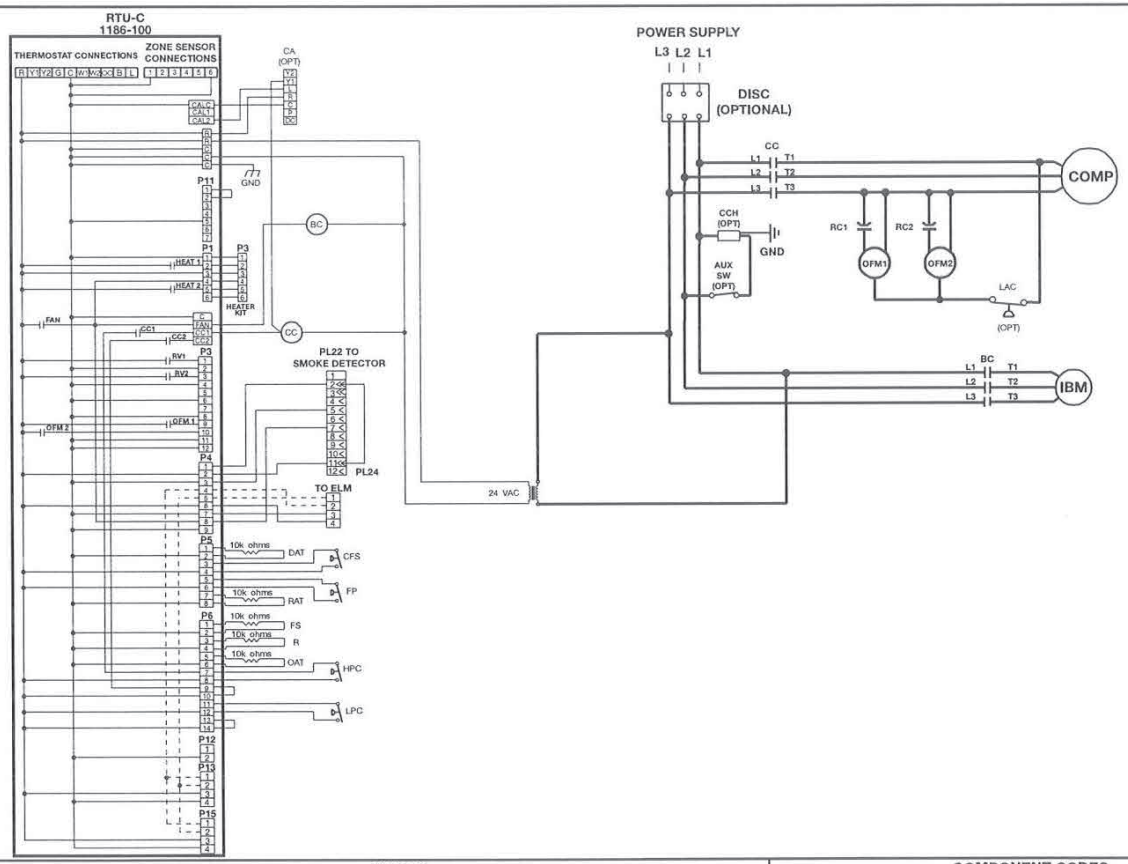
WIRE COLOR CODE

BK.....BLACK	G.....GREEN	PR.....PURPLE
BR.....BROWN	GY.....GRAY	R.....RED
BL.....BLUE	O.....ORANGE	W .....WHITE
		Y.....YELLOW

ELECTRICAL WIRING DIAGRAM

AC DDC 1 STG 090/102/120
208/230/380/460/575V, 3PH, 60HZ
AC DDC 1 STG 072/090/102
380-415V, 3PH, 50HZ

APPROVED:	CHECKED:	ORIGINAL RELEASE NO.:
MODELED BY: TEW	DATE: 10-23-17	R-1071S108
PART NO.: 90-106177-22	REV: 00	



WIRING INFORMATION

LINE VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

LOW VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)

WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO LE.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
3. CONNECT FIELD WIRE TO COMPRESSOR CONTACTOR (CC1).
4. REMOVE J3 AT (CC1) TO INSTALL LOW AMBIENT ACCESSORY.
5. IF REQUIRED, ATTACH CRANKCASE HEATER ACCESSORY TO CC1 (L1) AND CC1 (L2).
6. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
7. TRANSFORMER FACTORY WIRED AS SHOWN BELOW. CHANGE PRIMARY VOLTAGE CONNECTIONS FOR ALTERNATE VOLTAGES, IF REQUIRED.

UNIT VOLTAGES - HZ	TRANSFORMER TERM.
200-220 - 50HZ	200
208 - 60HZ	230
230 - 60HZ	230
380 - 60HZ	400
380-415 - 50HZ	400
460 - 60HZ	460
575 - 60HZ	575

8. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24VAC, 50/60 HZ SUPPLIED.
9. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
10. REMOVE PL24 FOR ECONOMIZER ACCESSORY. PL22 AND PL24 LOCATED IN RETURN AIR SECTION.

COMPONENT CODES

BC	BLOWER CONTACTOR
CA	COMFORT ALERT MODULE
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
CDS	CLOGGED DRAIN SENSOR
CFS	CLOGGED FILTER SWITCH
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DAT	DISCHARGE AIR SENSOR
DISC	DISCONNECT SWITCH
FLMS	FLAME SENSOR
FP	FAN PROVING
FS	FREEZE SENSOR
FT	FREEZE STAT
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
IDM	INDUCED DRAFT MOTOR
IFC	INTEGRATED FURNACE CONTROL
LAC	LOW AMBIENT CONTROL
LPC	LOW PRESSURE CONTROL
MAS	MIXED AIR SENSOR
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE SWITCH
OAT	OUTSIDE AIR SENSOR
OFM	OUTDOOR FAN MOTOR
PL	PLUG
PT	POWER TRANSFORMER
RAT	RETURN AIR SENSOR
RC	RUN CAPACITOR
RTU-C	ROOFTOP UNIT CONTROL
SE	SPARK ELECTRODE
TB	TERMINAL BLOCK

WIRE COLOR CODE

BK.....BLACK	G.....GREEN	PR.....PURPLE
BR.....BROWN	G Y .....GRAY	R.....RED
BL.....BLUE	O.....ORANGE	W .....WHITE
		Y.....YELLOW

ELECTRICAL WIRING SCHEMATIC

AC DDC 1 STG 090/102/120
208/230/380/460V, 3PH, 60HZ

AC DDC 1 STG 072/090/102
380-415V, 3PH, 50HZ

APPROVED:	CHECKED:	ORIGINAL RELEASE NO.:
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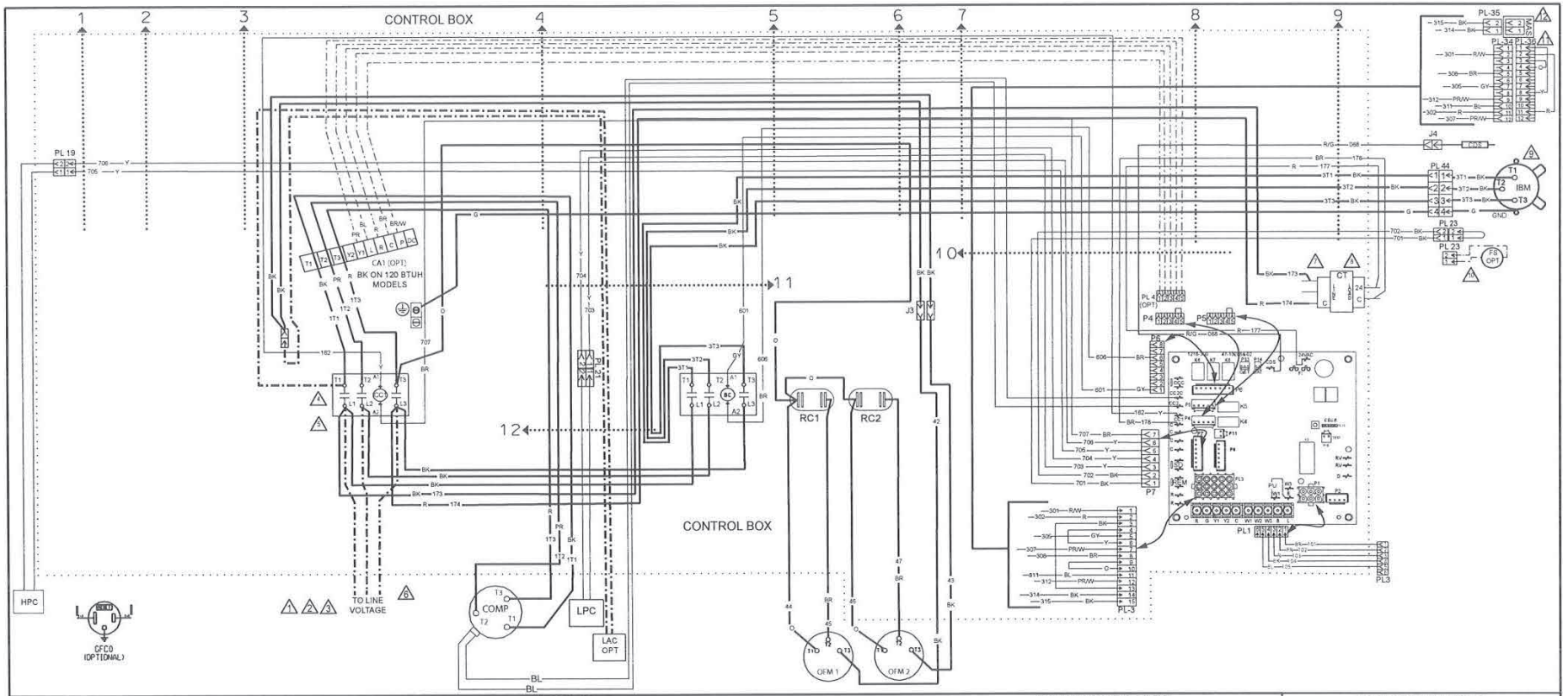


WIRING INFORMATION

LINE VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

LOW VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105C. MIN.)

WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
3. CONNECT FIELD WIRE TO COMPRESSOR CONTACTOR (CC1)
4. REMOVE J3 AT (CC1) TO INSTALL LOW AMBIENT ACCESSORY.
5. IF REQUIRED, ATTACH CRANKCASE HEATER ACCESSORY TO CC1 (L1) AND CC1 (L2)
6. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
7. TRANSFORMER FACTORY WIRED AS SHOWN BELOW. CHANGE PRIMARY VOLTAGE CONNECTION FOR ALTERNATE VOLTAGES. IF REQUIRED.

UNIT VOLTAGES –HZ	TRANSFORMER TERM
200-220 –60 HZ	200
208 –60 HZ	230
230 –60 HZ	230
380 –60 HZ	400
380-415 -50 HZ	400
460 –60 HZ	460
575 –60 HZ	575

8. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24VAC 50/60 HZ SUPPLIED.
9. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
10. REMOVE PL23 JUMPER FOR OPTIONAL FT LOCATED IN BLOWER COMPARTMENT.
11. REMOVE PL36 FOR ECONOMIZER ACCESSORY. PL34 AND PL36 LOCATED IN RETURN AIR SECTION.
12. MAS ACCESSORY PROVIDED WITH ECONOMIZER. PL35 LOCATED IN BLOWER COMPARTMENT.

COMPONENT CODES

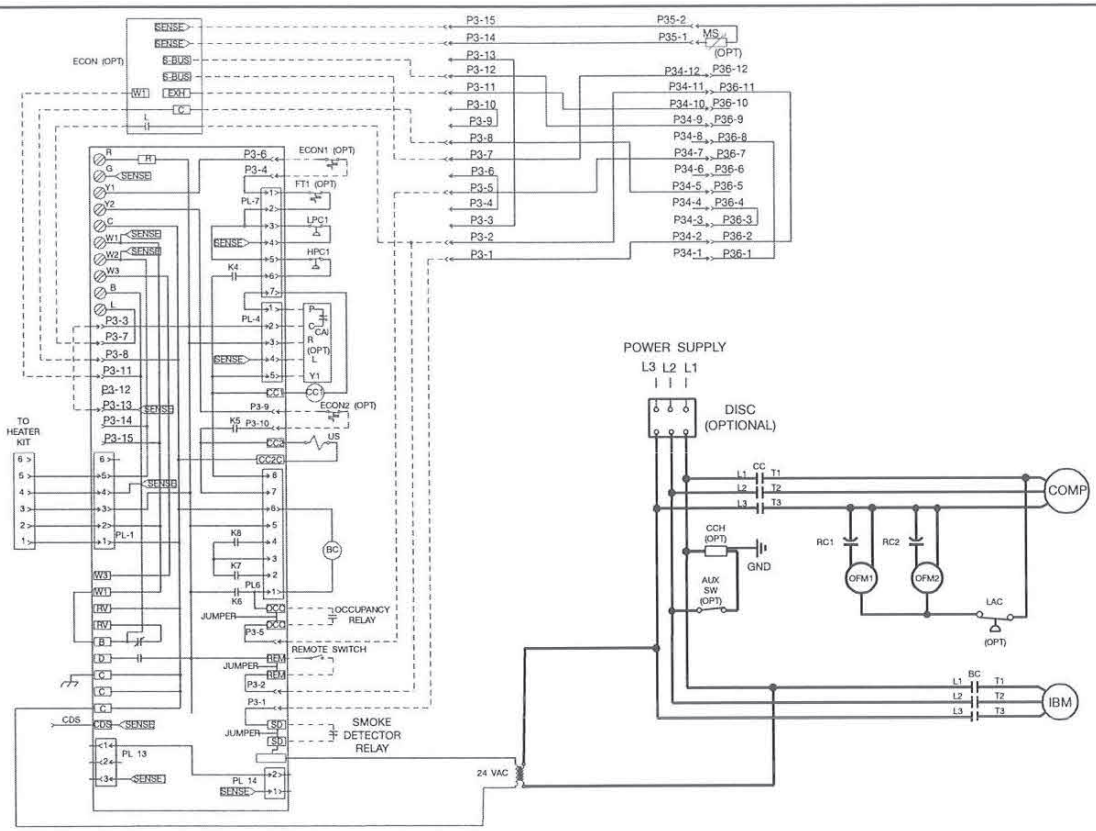
BC	BLOWER CONTACTOR
CA	COMFORT ALERT MODULE
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
CDS	CLOGGED DRAIN SENSOR
CFS	CLOGGED FILTER SWITCH
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DAT	DISCHARGE AIR SENSOR
DISC	DISCONNECT SWITCH
FLMS	FLAME SENSOR
FP	FAN PROVING
FS	FREEZE SENSOR
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM BD	INDOOR BLOWER MOTOR BELT DRIVE
IDM	INDUCED DRAFT MOTOR
IFC	INTEGRATED FURNACE CONTROL
J	JUMPER
LAC	LOW AMBIENT CONTROL
LPC	LOW PRESSURE CONTROL
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE SWITCH
OAT	OUTSIDE AIR SENSOR
OFM	OUTDOOR FAN MOTOR
PL	PLUG
PT	POWER TRANSFORMER
RAT	RETURN AIR SENSOR
RC	RUN CAPACITOR
RTU-C	ROOFTOP UNIT CONTROL
SE	SPARK ELECTRODE
	WIRE NUT
	WIRE TIES
##	

WIRE COLOR CODE

BK.....BLACK	G.....GREEN	PR.....PURPLE	
BR.....BROWN	GY.....GRAY	R.....RED	
BL.....BLUE	O.....ORANGE	W.....WHITE	
		Y.....YELLOW	

ELECTRICAL WIRING DIAGRAM
AC NON DDC 2-STG, 090,102 & 120
208/230/380/460/575V, 3PH 60 Hz.
AC NON DDC 2-STG 072/090/102
380-415V 3PH 50Hz.

APPROVED:	CHECKED:		ORIGINAL RELEASE NO.:
MODELED BY: TCJW	DATE: 10/30/17		R-1071S108
PART NO.: 90-106177-23		REV: 00	



ALARM CODES

CODE	Description	FAULT LEVEL –0,1,2,3*
0	STANDBY	0
c	COMPRESSOR ON – Low (Flashing if in time delay)	0
C	COMPRESSOR ON – High (Flashing if in time delay)	0
E	Economizer Cooling – No Compressor	0
F	CONTINOUS FAN	0
h	HEAT ON – Low Stage	0
H	GAS HEAT ON – High Stage	0
4	Comfort Alert Code 4 for Compressor Circuit 1	3
5	Comfort Alert Code 5 for Compressor Circuit 1	3
6	Comfort Alert Code 6 for Compressor Circuit 1	3
7	Comfort Alert Code 7 for Compressor Circuit 1	3
8	Comfort Alert Code 8 for Compressor Circuit 1	3
9	Comfort Alert Code 9 for Compressor Circuit 1	3
11	FAILED IGNITION	2
12	LO FLAME SENSE	1
13	FLAME LOST	2
14	UNEXPECTED FLAME	3
15	2nd Stage Gas valve improper voltage	2
20	REFRIGERANT LOW PRESSURE SWITCH OPEN – CIRCUIT 1	2
21	REFRIGERANT LOW PRESSURE SWITCH OPEN – CIRCUIT 2	2
22	MAIN LIMIT OPEN	2
29	REFRIGERANT HIGH PRESSURE SWITCH OPEN – CIRCUIT 1	2
30	REFRIGERANT HIGH PRESSURE SWITCH OPEN – CIRCUIT 2	2
33	MRLC (Rollout Limit) OPEN	2
34	Comfort Alert Code 4 for Compressor Circuit 2	3
35	Comfort Alert Code 5 for Compressor Circuit 2	3
36	Comfort Alert Code 6 for Compressor Circuit 2	3
37	Comfort Alert Code 7 for Compressor Circuit 2	3
38	Comfort Alert Code 8 for Compressor Circuit 2	3
39	Comfort Alert Code 9 for Compressor Circuit 2	3
44	1st Stage COMBUSTION PRESS SWITCH CLOSED	2
46	1st Stage COMBUSTION PRESS SWITCH OPEN	2
49	FREEZE SWITCH OPEN – CIRCUIT 1	2
50	FREEZE SWITCH OPEN -CIRCUIT 2	2
55	2nd Stage COMBUSTION PRESS SWITCH CLOSED	2
57	2nd Stage COMBUSTION PRESS SWITCH OPEN	2,3
59	Condensate Drain Plugged	3
61	Blower Fault – NO RUN	3
83	Condenser Coil Temp Sensor Fail-OCT	2
84	Outdoor Air Temperature Sensor Fail-OAT	2
88	Emergency Stop Fault	3
93	CONTROL Fault	3
97	Smoke Detection	3

*Fault levels:0 = none, 1=warning, 2= problem, 3=shutdown

WIRING INFORMATION

LINE VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

LOW VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)

WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO LEC., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
3. CONNECT FIELD WIRE TO COMPRESSOR CONTACTOR (CC1).
4. REMOVE J3 AT (CC1) TO INSTALL LOW AMBIENT ACCESSORY.
5. IF REQUIRED, ATTACH CRANKCASE HEATER ACCESSORY TO CC1 (L1) AND CC1 (L2).
6. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
7. TRANSFORMER FACTORY WIRED AS SHOWN BELOW. CHANGE PRIMARY VOLTAGE CONNECTIONS FOR ALTERNATE VOLTAGES, IF REQUIRED.

UNIT VOLTAGES - HZ	TRANSFORMER TERM.
200-220 - 50HZ	200
208 - 60HZ	230
220 - 60HZ	230
380 - 60HZ	400
380-415 - 50HZ	400
460 - 60HZ	460
575 - 60HZ	575

8. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24VAC 50/60 HZ SUPPLIED.
9. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
10. REMOVE PL36 FOR ECOMOMIZER ACCESSORY. PL34 AND PL36 LOCATED IN RETURN AIR SECTION.

COMPONENT CODES

BC	BLOWER CONTACTOR
CA	COMFORT ALERT MODULE
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
CDS	CLOG DRAIN SENSOR
CFS	CLOGGED FILTER SWITCH
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DAT	DISCHARGE AIR ESENSOR
DISC	DISCONNECT SWITCH
ELM	ECONOMIZER LOGIC MODULE
FLMS	FLAME SENSOR
FP	FAN PROVING
FS	FREEZE SENSOR
FT	FREEZE STAT
GFCO	GROUND FAULT CONVENIENCE OUTLET
GL	GROUND LUG
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
IDM	INDUCED DRAFT MOTOR
IFC	INTEGRATED FURNACE CONTROL
LAC	LOW AMBIENT CONTROL
LPC	LOW PRESSURE CONTROL
MRLC	MANUAL RESET LIMIT CONTROL
NPC	NEGATIVE PRESSURE SWITCH
OAT	OUTSIDE AIR SENSOR
OFM	OUTDOOR FAN MOTOR
PL	PLUG
PT	POWER TRANSFORMER
RAT	RETURN AIR SENSOR
RC	RUN CAPACITOR
RTU-C	ROOFTOP UNIT CONTROL
SE	SPARK ELECTRODE
TB	TERMINAL BLOCK
UL	UNLOADER SOLENOID

WIRE COLOR CODE

BK.....BLACK	G.....GREEN	PR.....PURPLE
BR.....BROWN	GY.....GRAY	R.....RED
BL.....BLUE	O.....ORANGE	W .....WHITE
		Y.....YELLOW

ELECTRICAL WIRING SCHEMATIC

AC NON DDC 2-STG, 090/102/120
208/230/380/460/575V, 3PH 60 Hz.
AC NON DDC 2-STG 072/090/102
380-415V 3PH 50Hz.

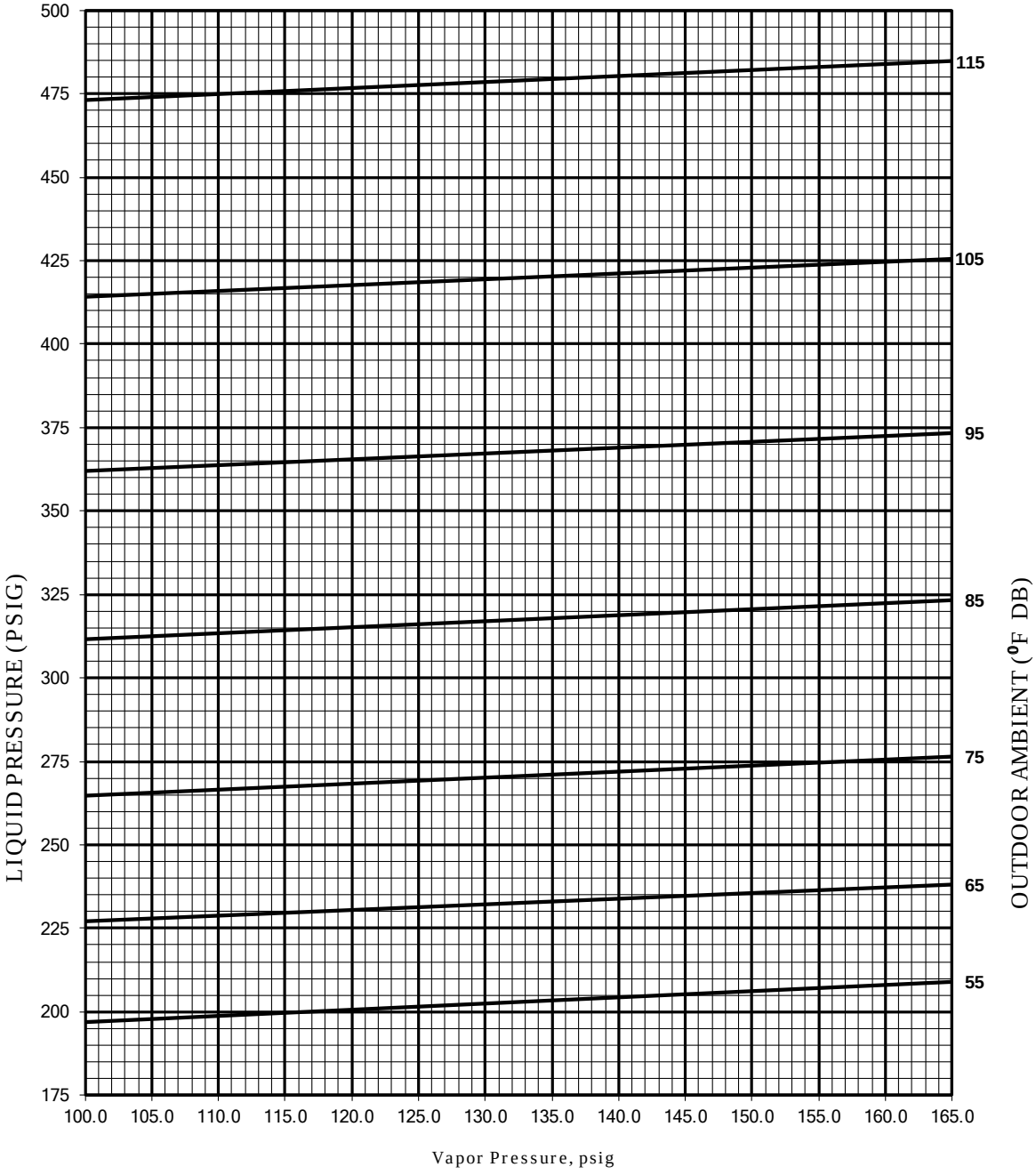
APPROVED:	CHECKED:	ORIGINAL RELEASE NO.:
MODELED BY: TCJW	DATE: 10-30-17	R-1071S108
PART NO.: 90-106178-23		REV: 00

XXI. CHARGING CHARTS

FIGURE 18

SYSTEM CHARGE CHART - REFRIGERANT 410A

7.5 TON



CAUTION: **1. RETURN AIR TEMPERATURE MUST BE WITHIN COMFORT CONDITIONS BEFORE FINAL REFRIGERANT CHECK!**

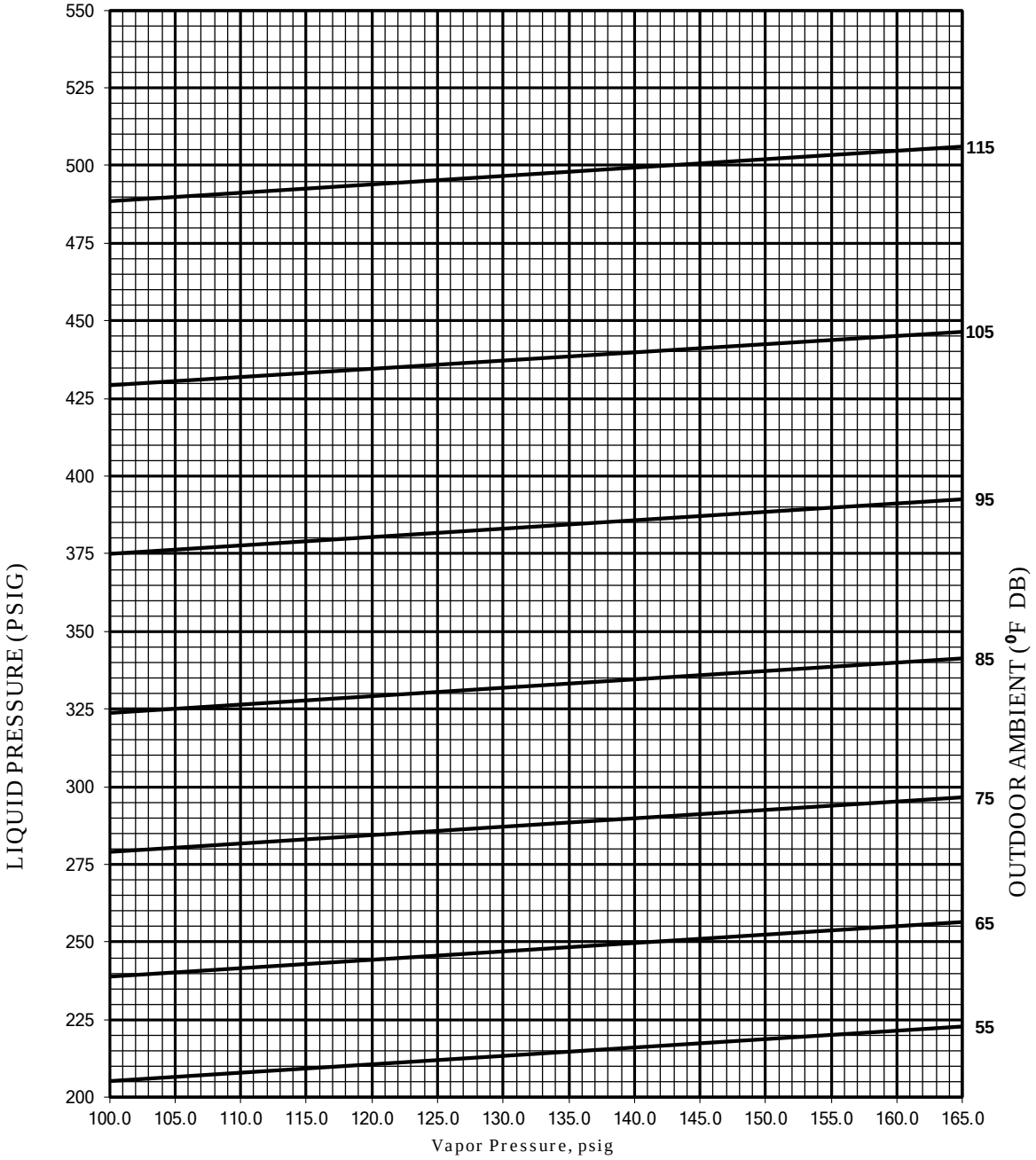
INSTRUCTIONS:
1. MEASURE PRESSURE AT COMPRESSOR SUCTION AND L IOUID.
2.MEASURE OUTDOOR AMBIENT TO UNIT.
3.PLACE X ON CHART WHERE SUCTION AND LIOUID INTERSECT.
4.IF X IS BELOW OUTDOOR AMBIENT L:NE, ADD CHARGE AND REPEAT STEPS 1-3.
5.IF X IS ABOVE OUTDOOR AMBIENT LINE, RECOVER ExCESS CHARGE AND REPEAT STEPS 1-3.

92-106138-01-00

FIGURE 19

SYSTEM CHARGE CHART - REFRIGERANT 410A

8.5 TON



CAUTION: **1. RETURN AIR TEMPERATURE MUST BE WITHIN COMFORT CONDITIONS BEFORE FINAL REFRIGERANT CHECK!**

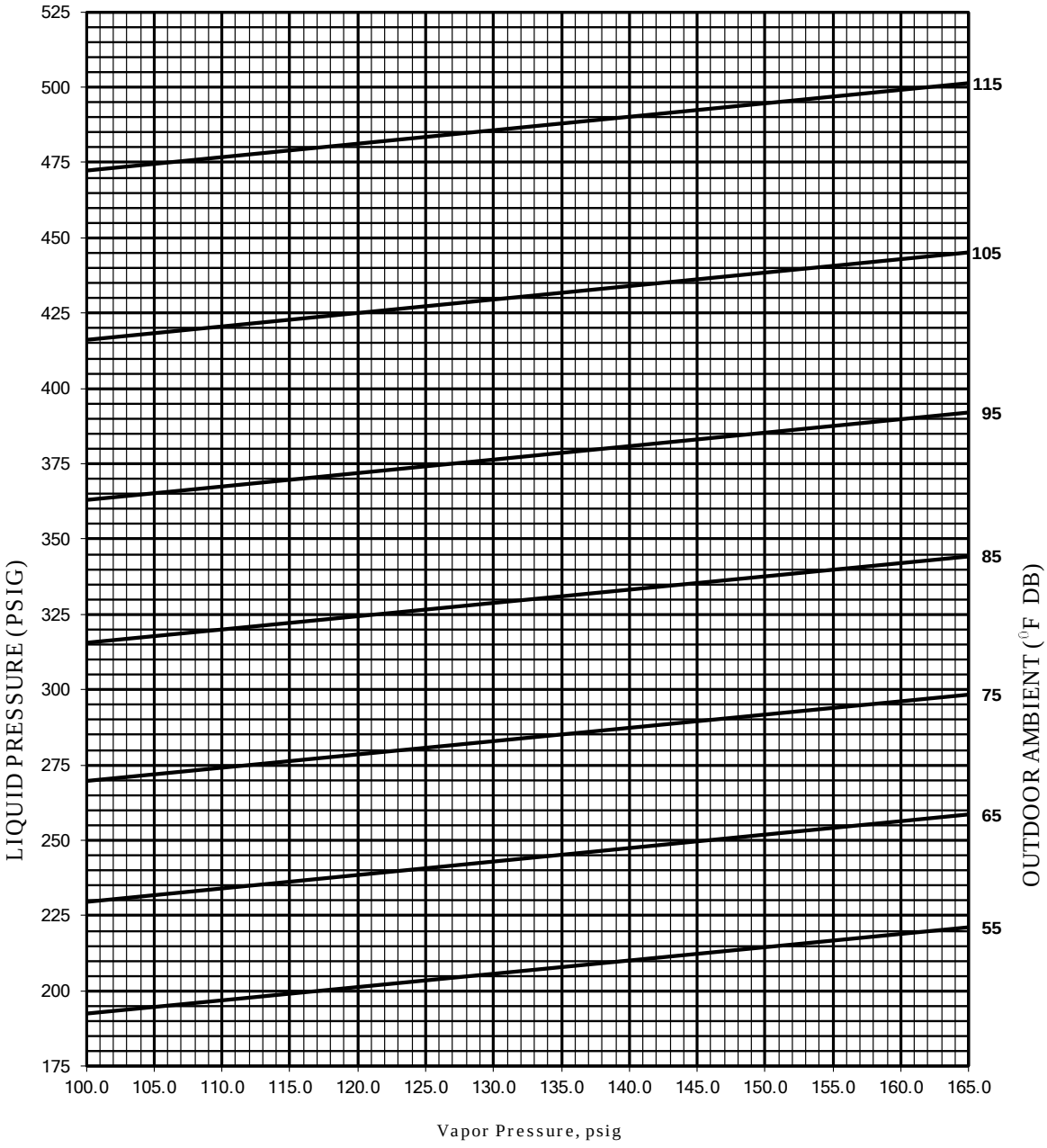
INSTRUCTIONS:
1. MEASURE PRESSURE AT COMPRESSOR SUCTION AND L IOUID.
2.MEASURE OUTDOOR AMBIENT TO UNIT.
3.PLACE X ON CHART WHERE SUCTION AND LIOUID INTERSECT.
4.IF X IS BELOW OUTDOOR AMBIENT L:NE, ADD CHARGE AND REPEAT STEPS 1-3.
5.IF X IS ABOVE OUTDOOR AMBIENT LINE, RECOVER ExCESS CHARGE AND REPEAT STEPS 1-3.

92-106138-02-00

FIGURE 20

SYSTEM CHARGE CHART - REFRIGERANT 410A

10 TON



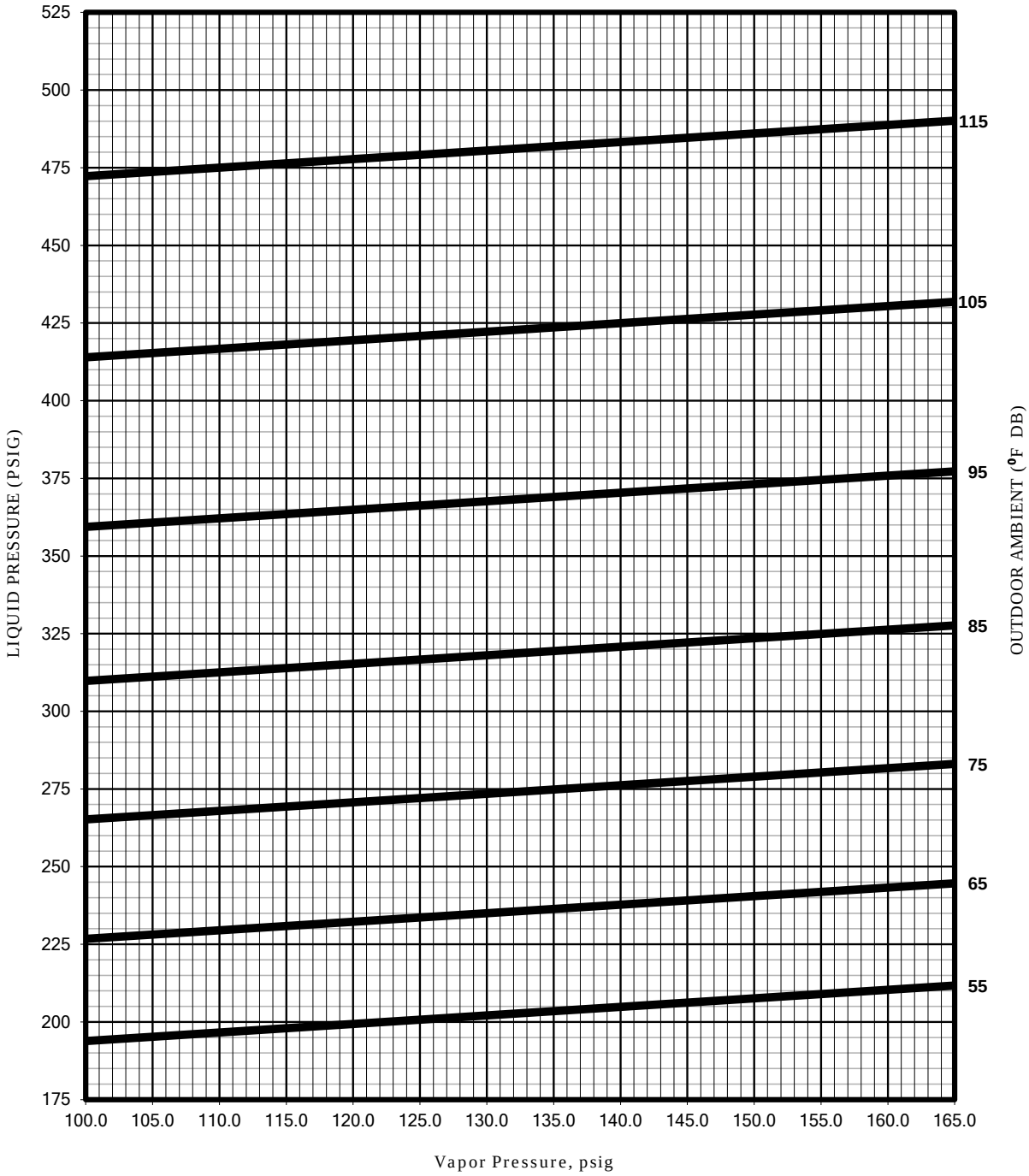
CAUTION: **1. RETURN AIR TEMPERATURE MUST BE WITHIN COMFORT CONDITIONS BEFORE FINAL REFRIGERANT CHECK!**

INSTRUCTIONS:
1. MEASURE PRESSURE AT COMPRESSOR SUCTION AND L IOUID.
2.MEASURE OUTDOOR AMBIENT TO UNIT.
3.PLACE X ON CHART WHERE SUCTION AND LIOUID INTERSECT.
4.IF X IS BELOW OUTDOOR AMBIENT L:NE, ADD CHARGE AND REPEAT STEPS 1-3.
5.IF X IS ABOVE OUTDOOR AMBIENT LINE, RECOVER ExCESS CHARGE AND REPEAT STEPS 1-3.

92-106138-03-00

FIGURE 21

12.5-Ton AC Charging Chart



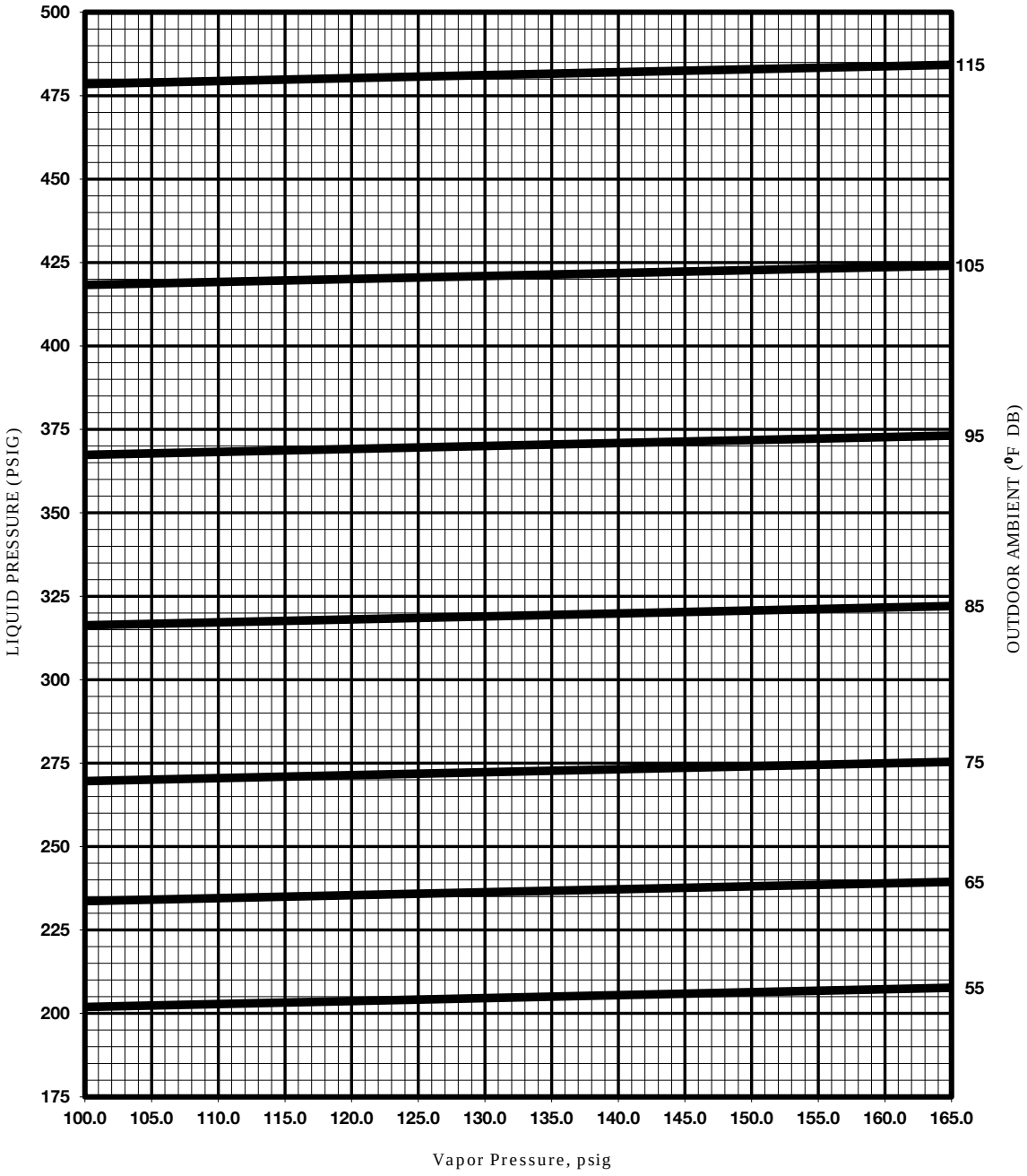
CAUTION: **1. RETURN AIR TEMPERATURE MUST BE WITHIN COMFORT CONDITIONS BEFORE FINAL REFRIGERANT CHECK!**

INSTRUCTIONS:
1. MEASURE PRESSURE AT COMPRESSOR SUCTION AND LIQUID.
2. MEASURE OUTDOOR AMBIENT TO UNIT.
3. PLACE X ON CHART WHERE SUCTION AND LIQUID INTERSECT.
4. IF X IS BELOW OUTDOOR AMBIENT LINE, ADD CHARGE AND REPEAT STEPS 1-3.
5. IF X IS ABOVE OUTDOOR AMBIENT LINE, RECOVER EXCESS CHARGE AND REPEAT STEPS 1-3.

92-106138-04-00

FIGURE 22

7.5 Ton 2 - Stage AC Charging Chart



CAUTION: 1. RETURN AIR TEMPERATURE MUST BE WITHIN COMFORT CONDITIONS BEFORE FINAL REFRIGERANT CHECK!

INSTRUCTIONS: 1. MEASURE PRESSURE AT COMPRESSOR SUCTION AND LIQUID.

2. MEASURE OUTDOOR AMBIENT TO UNIT.

3. PLACE X ON CHART WHERE SUCTION AND LIQUID INTERSECT.

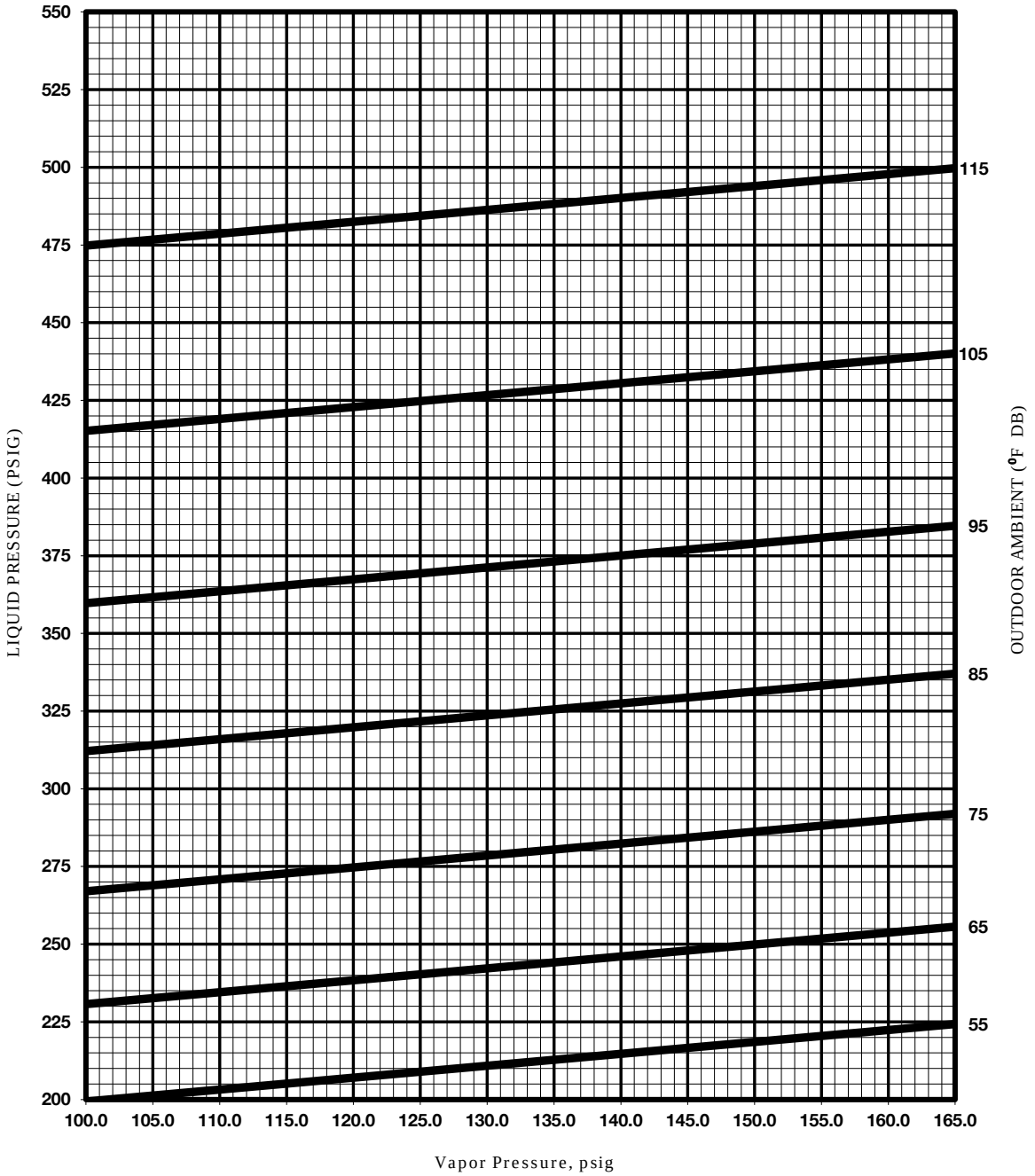
4. IF X IS BELOW OUTDOOR AMBIENT LINE, ADD CHARGE AND REPEAT STEPS 1-3.

5. IF X IS ABOVE OUTDOOR AMBIENT LINE, RECOVER EXCESS CHARGE AND REPEAT STEPS 1-3.

92-106138-09-00

FIGURE 23

8.5 Ton 2 - Stage AC Charging Chart



CAUTION: 1. RETURN AIR TEMPERATURE MUST BE WITHIN COMFORT CONDITIONS BEFORE FINAL REFRIGERANT CHECK!

INSTRUCTIONS: 1. MEASURE PRESSURE AT COMPRESSOR SUCTION AND LIQUID.

2. MEASURE OUTDOOR AMBIENT TO UNIT.

3. PLACE X ON CHART WHERE SUCTION AND LIQUID INTERSECT.

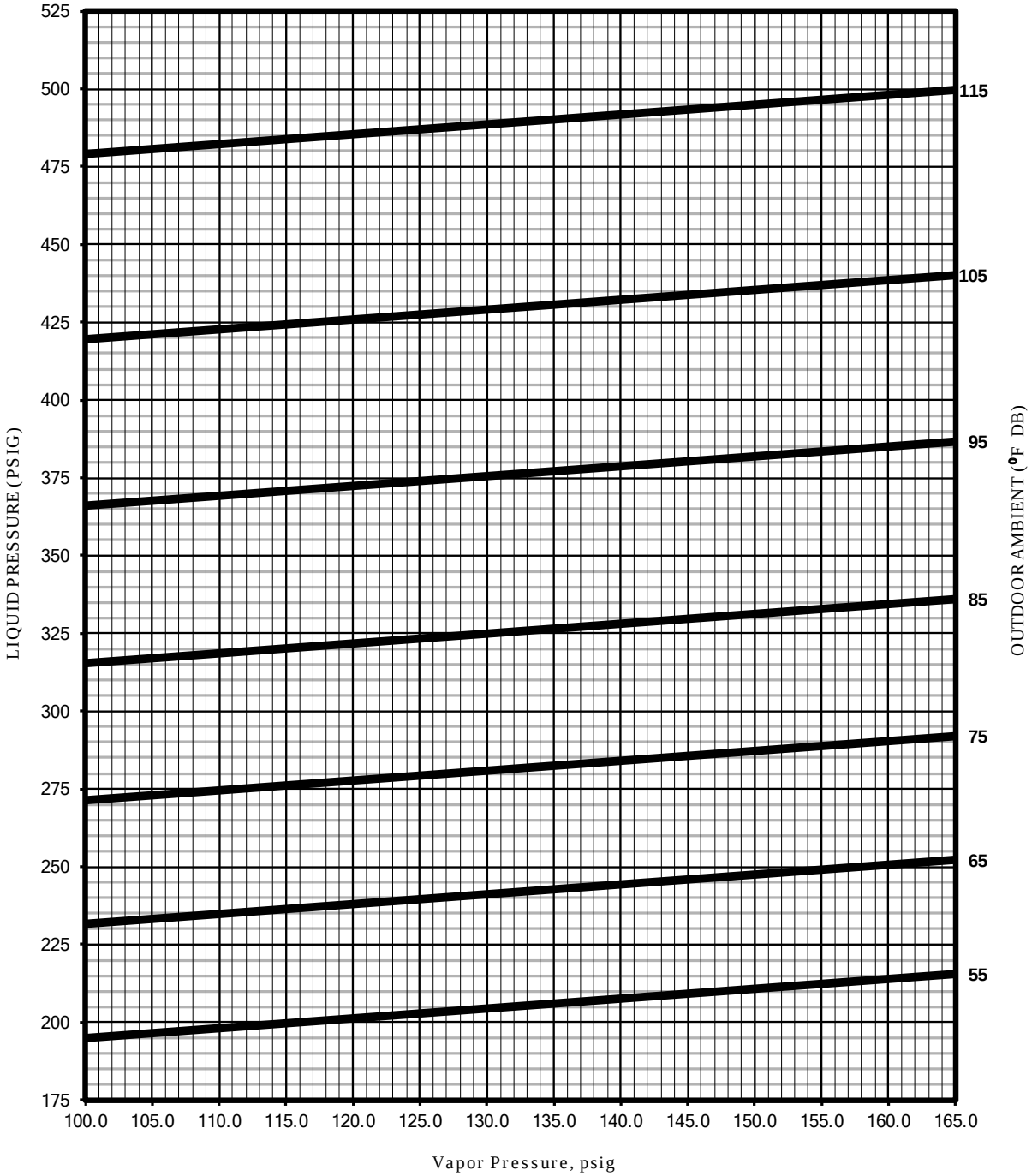
4. IF X IS BELOW OUTDOOR AMBIENT LINE, ADD CHARGE AND REPEAT STEPS 1-3.

5. IF X IS ABOVE OUTDOOR AMBIENT LINE, RECOVER EXCESS CHARGE AND REPEAT STEPS 1-3.

92-106138-10-00

FIGURE 24

10-Ton 2 Stage AC Charging Chart



CAUTION: **1. RETURN AIR TEMPERATURE MUST BE WITHIN COMFORT CONDITIONS BEFORE FINAL REFRIGERANT CHECK!**

INSTRUCTIONS:
1. MEASURE PRESSURE AT COMPRESSOR SUCTION AND LIQUID.
2. MEASURE OUTDOOR AMBIENT TO UNIT.
3. PLACE X ON CHART WHERE SUCTION AND LIQUID INTERSECT.
4. IF X IS BELOW OUTDOOR AMBIENT LINE, ADD CHARGE AND REPEAT STEPS 1-3.
5. IF X IS ABOVE OUTDOOR AMBIENT LINE, RECOVER EXCESS CHARGE AND REPEAT STEPS 1-3.

92-106138-11-00

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

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