



Wind Review and Analysis  
For Rheem  
RACDT/RHPD/RGED  
090/102/120/150 Rooftop unit  
under a maximum wind speed  
of 150 MPH and a building up to  
25' tall.  
Location: Florida

Author: Mark Greenwood

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## **Rooftop Unit Attachment to Curb Adapter Analysis**

### **Description**

In this section of the report we will evaluate the attachment of the rooftop unit to the curb.

**Rooftop Unit** Rheem RACD/RHPD/RGED 090-150 operating weight 775 to 1094 lbs. (see appendix)

**Site Location** Florida, wind requirement of 150 mph max

**Building** Retail Facility, 25' tall max.

**Risk Category: II**

### **Assumptions**

1. Building code: 2012 IBC  
Lateral wind forces per ASCE7-10 & FBC2017
2. Structure height and average roof height to be assumed equal
3. The lighter weighted units will be more at risk for connection failure than the similar chassis heavier units
4. Existing curb's attachment to roof structure by others.

**The attachment of a Rheem RACD/RHPD/RGED 090-150 rooftop unit to a CDI 1-6010-6025 GEMAIRE curb adapter that meets the criteria for 185 MPH winds is as follows. The attachment shall be facilitated by using a minimum of qty-20 1/4-20 self-drilling screws per long side and a minimum of qty-16 1/4-20 self-drilling screws per short side of the RTU (total of 72).**

**For the attachment of the CDI curb adapter to the existing roof curb, this shall be done by using a minimum of qty-25 1/4-20 self-drilling screws per long side and a minimum of qty-21 1/4-20 self-drilling screws per short side of the RTU (total of 92). Each of the 1/4-20 screws must be of sufficient length to secure the curb adapter to the existing roofed in curb (metal must be min of 18ga).**

## ASCE 7-10 WIND LOADS

### 29.5.1 Rooftop Structures and Equipment for Building with $h \leq 60$ ft

State location of job: **FL**

#### Basic wind design criteria:

Wind Speed  $V = 150$  mph

Exposure category = **C**

Mean roof height  $h = 25$  ft (if FL building code enter height,  $z$ , to center of pressure)

#### Wind pressure formulas and input data:

$$q_h = .00256 K_z K_{zt} K_d V^2 \quad \text{Eq. 29.3-1}$$

Topography factor  $K_{zt} = 1.0$

Directionality factor  $K_d = 0.90$  Table 26.6-1

Exposure coefficient  $K_z = 0.95$  Table 29.3-1 note 1

$$\text{Lateral force } F_h = q_h (GC_r) A_f \quad \text{Eq. 29.5-2}$$

Lateral  $(GC_r) = 3.10$  If FL building code enter 3.1

$$\text{Vertical uplift force } F_v = q_h (GC_r) A_r \quad \text{Eq. 29.5-3}$$

Uplift  $(GC_r) = 1.50$

#### Compute $K_z$

For selected exposure category

alpha = 9.5

zg = 900

Table 26.9-1

exposure	alpha	zg
B	7	1200
C	9.5	900
D	11.5	700

for  $h$  less than 15 ft

$$K_z = 2.01 * (15/zg)^{(2/\alpha)} = 0.85$$

for  $h$  greater than 15 ft

$$K_z = 2.01 (z/zg)^{(2/\alpha)} = 0.95$$

#### Design wind pressures (ultimate loads):

$$q_h = 49.00 \quad \text{psf} \quad \text{Eq. 29.3-1}$$

$$\text{Lateral pressure, } F_h/A_f = 151.9 \quad \text{psf} \quad \text{Eq. 29.5-2}$$

$$\text{Uplift pressure, } F_v/A_r = 73.5 \quad \text{psf} \quad \text{Eq. 29.5-3}$$

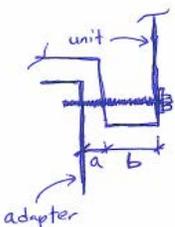
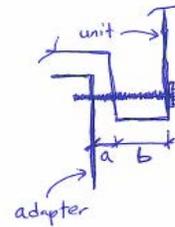
where

$A_f$  = vertical projected area of equipment

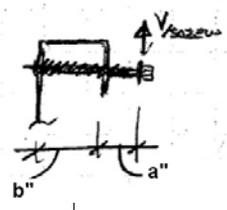
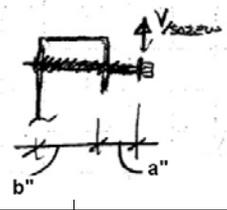
$A_r$  = horizontal projected area of equipment

<b>EQUIPMENT WIND OVERTURNING CALCULATIONS UNIT TO ADAPTER</b>				
<u>Description</u>	<u>Variable</u>	<u>Value</u>		
<b><u>Unit information</u></b>				
Dead weight of RTU	Wp	1094		
Unit Height(inches)	H	60.0		
Unit Length(inches)	L	89.0		
Unit Width(inches)	w	57.9		
Straight Curb Length(inches)		85.4		
Straight Curb Width (inches)		53.5		
Straight Curb height(inches)		14.0		
Unit CG-X1(inches)		45.4		
Unit CG-X2(inches)		43.6		
Unit CG-Y1(inches)		34.7		
Unit CG-Y2(inches)		23.2		
<b><u>Design wind loads (Ultimate)</u></b>				
Lateral pressure (PSF)	Fh/Af	151.9		
Uplift pressure (PSF)	Fv/Ar	73.5		
Projected Area normal to wind (FT^2)	Af	37.1	long side	
Projected Area normal to wind (FT^2)	Af	24.1	short side	
Projected Area normal to UPLIFT wind (FT^2)	Ar	35.8		
Lateral wind force (LBS)	Fh	5633	long side	
Lateral wind force (LBS)	Fh	3665	short side	
Uplift wind force (LBS)	Fv	2630		
<b><u>Compute wind overturning (Long side)</u></b>				
Dist from pivot pt to applied load (ft)	Hcp	2.50		
Dist from pivot pt to resisting force (ft)	Dmin	4.64		
Dist from pivot pt to RTU CG(ft)	Dcg	2.89		
Overturning moment(Mot)=0.6*Fh*Hcp	Mot	8450	ASCE 7-10	
Resisting Moment(Mres)=Wp*0.6*(Dmin-Dcg)	Mres	1149	ASD load	
<b>Uplift = (Mot-Mres)/Dmin+0.6Fv/2 (LBS)</b>	<b>Uplift</b>	<b>2362</b>	combination,	
<b>Shear = 0.6Fh / 2 sides (LBS)</b>	<b>Shear</b>	<b>1690</b>	0.6D + 0.6W	
<b><u>Compute wind overturning (Short side)</u></b>				
Dist from pivot pt to applied load (ft)	Hcp	2.50		
Dist from pivot pt to resisting force (ft)	Dmin	7.27		
Dist from pivot pt to RTU CG(ft)	Dcg	3.78		
Overturning moment(Mot)=0.6*Fh*Hcp	Mot	5497	ASCE 7-10	
Resisting Moment(Mres)=Wp*0.6*(Dmin-Dcg)	Mres	2286	ASD load	
<b>Uplift = (Mot-Mres)/Dmin+0.6Fv/2 (LBS)</b>	<b>Uplift</b>	<b>1231</b>	combination,	
<b>Shear = 0.6Fh / 2 sides (LBS)</b>	<b>Shear</b>	<b>1690</b>	0.6D + 0.6W	
<b>MODEL NUMBER: <u>6025</u></b>				

<b>CONNECTION DESIGN CHECKS UNIT TO ADAPTER</b>			
<b>Determine min. number of screws (Long side)</b>			
No. screws ea. side, n =	20	screws	
1/4" screw root diameter, d =	0.185	in	
Effective spacing =	4.7	in o.c.	
Tscrew = Shear / n =	84.5	lbs	
Vscrew = Uplift / n =	118.1	lbs	
a (Gap between adapter and unit) =	0.25	in	
b (unit base width) =	2	in	
c=a+b =	2.3	in	
Vmax = Vscrew * c / b =	132.9	lbs	
Mmax = Vscrew x a =	29.5	in-lbs	Screw to go through unit base and web of adapter.
Z = d <sup>3</sup> / 6 =	0.001055	in <sup>3</sup>	
fb = Mmax / Z =	28.0	ksi	
Screw capacity: (per SSMA)	<b>1/4" SMS W/ MIN. 18 Ga.</b>		
	Tallow =	144	lbs
	Vallow =	302	lbs
	Fb = 70ksi / 1.67 =	41.9	ksi <b>SCREW BENDING O.K.</b>
Tscrew / Tallow + Vmax / Vallow =		0.98	< 1.0 ==> O.K.
<b>Determine min. number of screws (Short side)</b>			
No. screws ea. side, n =	16	screws	
Effective spacing =	3.6	in o.c.	
Tscrew = Shear / n =	105.6	lbs	
Vscrew = Uplift / n =	76.9	lbs	
a (Gap between adapter and unit) =	0.25	in	
b (unit base width) =	2	in	
c=a+b =	2.3	in	
Vmax = Vscrew * c / b =	86.6	lbs	
Mmax = Vscrew x a =	19.2	in-lbs	Screw to go through unit base and web of adapter.
Z = d <sup>3</sup> / 6 =	0.001055	in <sup>3</sup>	
fb = Mmax / Z =	18.2	ksi	
Screw capacity: (per SSMA)	<b>1/4" SMS W/ MIN. 18 Ga.</b>		
	Tallow =	144	lbs
	Vallow =	302	lbs
	Fb = 70ksi / 1.67 =	41.9	ksi <b>SCREW BENDING O.K.</b>
Tscrew / Tallow + Vmax / Vallow =		0.99	< 1.0 ==> O.K.



<b><u>EQUIPMENT WIND OVERTURNING CALCULATIONS ADAPTER CURB</u></b>				
<b><u>Description</u></b>	<b><u>Variable</u></b>	<b><u>Value</u></b>		
<b><u>Unit information</u></b>				
Dead weight of RTU	Wp	1094		
Unit Height Including Adapter (inches)	H	78		
Unit Length(inches)	L	89		
Unit Width(inches)	w	57.9		
Adapter Curb Length(inches)		90.0625		
Adapter Curb Width (inches)		85.375		
Adapter Curb height(inches)		18		
Unit CG-X1(inches)		45.4		
Unit CG-X2(inches)		43.6		
Unit CG-Y1(inches)		34.7		
Unit CG-Y2(inches)		23.2		
<b><u>Design wind loads (Ultimate)</u></b>				
Lateral pressure (PSF)	Fh/Af	151.9		
Uplift pressure (PSF)	Fv/Ar	73.5		
Projected Area normal to wind (FT^2)	Af	48.2	long side	
Projected Area normal to wind (FT^2)	Af	31.4	short side	
Projected Area normal to UPLIFT wind (FT^2)	Ar	35.8		
Lateral wind force (LBS)	Fh	7323	long side	
Lateral wind force (LBS)	Fh	4764	short side	
Uplift wind force (LBS)	Fv	2630		
<b><u>Compute wind overturning (Long side)</u></b>				
Dist from pivot pt to applied load (ft)	Hcp	3.25		
Dist from pivot pt to resisting force (ft)	Dmin	5.97		
Dist from pivot pt to RTU CG(ft)	Dcg	2.89		
Overturning moment(Mot)=0.6*Fh*Hcp	Mot	14280	ASCE 7-10	
Resisting Moment(Mres)=Wp*0.6*(Dmin-Dcg)	Mres	2020	ASD load	
<b>Uplift = (Mot-Mres)/Dmin+0.6Fv/2 (LBS)</b>	<b>Uplift</b>	<b>2843</b>	combination,	
<b>Shear = 0.6Fh / 2 sides (LBS)</b>	<b>Shear</b>	<b>2197</b>	0.6D + 0.6W	
<b><u>Compute wind overturning (Short side)</u></b>				
Dist from pivot pt to applied load (ft)	Hcp	3.25		
Dist from pivot pt to resisting force (ft)	Dmin	7.46		
Dist from pivot pt to RTU CG(ft)	Dcg	3.78		
Overturning moment(Mot)=0.6*Fh*Hcp	Mot	9290	ASCE 7-10	
Resisting Moment(Mres)=Wp*0.6*(Dmin-Dcg)	Mres	2414	ASD load	
<b>Uplift = (Mot-Mres)/Dmin+0.6Fv/2 (LBS)</b>	<b>Uplift</b>	<b>1711</b>	combination,	
<b>Shear = 0.6Fh / 2 sides (LBS)</b>	<b>Shear</b>	<b>2197</b>	0.6D + 0.6W	
<b>MODEL NUMBER: <u>6025</u></b>				

<b>CONNECTION DESIGN CHECKS ADAPTER CURB</b>				
<b>Determine min. number of screws (Long side)</b>				
No. screws ea. side, n =	25	screws		
1/4" screw root diameter, d =	0.185	in		
Effective spacing =	3.7	in o.c.		
T <sub>screw</sub> = Shear / n =	87.9	lbs		
V <sub>screw</sub> = Uplift / n =	113.7	lbs		
a (Gap between adapter and unit) =	0.75	in		
b (Curb rail width) =	1.75	in		
c=a+b =	2.5	in		
V <sub>max</sub> = V <sub>screw</sub> * c / b =	162.4	lbs		
M <sub>max</sub> = 0.5*V <sub>screw</sub> x a =	42.6	in-lbs		<i>4" long screw to go through flange and web of the curb. Screw tight to 2ply adapter.</i>
Z = d <sup>3</sup> / 6 =	0.001055	in <sup>3</sup>		
f <sub>b</sub> = M <sub>max</sub> / Z =	40.4	ksi		
Screw capacity: (per SSMA)	<b>1/4" SMS W/ MIN. 18 Ga.</b>			
	T <sub>allow</sub> =	144	lbs	
	V <sub>allow</sub> =	302	lbs	
	F <sub>b</sub> = 70ksi / 1.67 =	41.9	ksi <b>SCREW BENDING O.K.</b>	
T <sub>screw</sub> / T <sub>allow</sub> + V <sub>max</sub> / V <sub>allow</sub> =		0.99	< 1.0 ==> O.K.	
<b>Determine min. number of screws (Short side)</b>				
No. screws ea. side, n =	21	screws		
Effective spacing =	4.3	in o.c.		
T <sub>screw</sub> = Shear / n =	104.6	lbs		
V <sub>screw</sub> = Uplift / n =	81.5	lbs		
a (Gap between adapter and unit) =	0.75	in		
b (Curb rail width) =	1.75	in		
c=a+b =	2.5	in		
V <sub>max</sub> = V <sub>screw</sub> * c / b =	116.4	lbs		
M <sub>max</sub> = 0.5*V <sub>screw</sub> x a =	30.5	in-lbs		<i>4" long screw to go through flange and web of the curb. Screw tight to 2ply adapter.</i>
Z = d <sup>3</sup> / 6 =	0.001055	in <sup>3</sup>		
f <sub>b</sub> = M <sub>max</sub> / Z =	28.9	ksi		
Screw capacity: (per SSMA)	<b>1/4" SMS W/ MIN. 18 Ga.</b>			
	T <sub>allow</sub> =	144	lbs	
	V <sub>allow</sub> =	302	lbs	
	F <sub>b</sub> = 70ksi / 1.67 =	41.9	ksi <b>SCREW BENDING O.K.</b>	
T <sub>screw</sub> / T <sub>allow</sub> + V <sub>max</sub> / V <sub>allow</sub> =		1.00	< 1.0 ==> O.K.	



The new degree of comfort.™

## Commercial® 7.5-12.5 Ton Renaissance™ Line Package Air Conditioner



### **RACDZT Commercial Prestige® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Standard VFD and optional HumidiDry™ Technology  
ASHRAE 90.1-2013 Compliant Models

### **RACDZS Commercial Classic Plus® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Optional VFD and HumidiDry™ Technology  
ASHRAE 90.1-2010 Compliant Models  
ASHRAE 90.1-2013 Compliant Models

### **RACDZR Commercial Classic® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
ASHRAE 90.1-2010 Compliant Models





**R** **AC** **D** **ZT** **090** **A** **C** **A** **15** **2** **A** **A** **\*\*\***  
**1** **23** **4** **56** **789** **10** **11** **12** **13 14** **15** **16** **17** **18 19 20**

**1—Brand**

R = Rheem

**2, 3—Unit Type**

AC = Package AC

**4—Cabinet Type**

D = Small Commercial

**5, 6—Series**

ZT<sup>1</sup> = Tier 1 (*Commercial Prestige® Series*)

ZS<sup>2</sup> = Tier 2 (*Commercial Classic Plus® Series*)

ZR<sup>3</sup> = Tier 3 (*Commercial Classic® Series*)

**7, 8, 9—Capacity**

090 = 7.5 ton

102 = 8.5 ton

120 = 10 ton

150 = 12.5 ton<sup>4</sup>

**10—Major series**

A

**11—Voltage**

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phase 575/60

**12—Drive**

A = belt low static

B = belt med static

C = belt high static

F = belt VFD low static

G = belt VFD med static

H = belt VFD high static

**13, 14—Heat Capacity**

00 = No Heat

10 = 10kw

15 = 15kw

20 = 20kw

30 = 30kw

40 = 40kw

**15—Number of stages**

0 = no stages

1 = 1 stage

2 = 2 stage

**16—Control**

A = Non communicating

B = Comfort Alert/Phase Monitor

C = Clear Control

D = Clear Control & Comfort Alert

**17—Minor series**

A

**18, 19, 20—Option Code**

See next page

Notes:

1. ZT – can only select VFD drives (F, G, H) in character 12
2. ZS – can select any of the drive options in character 12
3. ZR – can only select standard drives (A, B, C) in character 12
4. ZR – not available for 12.5 ton models



## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RACDZR Series	ZR090	ZR102	ZR120
<b>Cooling Performance<sup>1</sup></b>			
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]
EER/SEER <sup>2</sup>	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]
EER <sup>3</sup>	12.9	12.9	12.9
Net System Power kW	7.53	8.51	9.86
<b>Compressor</b>			
No./Type	1/Scroll	1/Scroll	1/Scroll
No. Stages	1	1	1
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>			
	88	88	88
<b>Outdoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>			
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP
	820	820	1075
<b>Indoor Fan - Type</b>			
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single
Motor RPM	1	1	1
Motor Frame Size	1725	1725	1725
	56	56	56
<b>Filter - Type</b>			
Furnished	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>			
	100 [2835]	117 [3317]	136 [3856]
<b>Weights</b>			
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]

See Page 19 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RACDZS Series	ZS090	ZS102	ZS120	ZS150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3200 [1416/1510]	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 <sup>3</sup>	12.9	12.9	12.9	12.4
Net System Power kW	7.35	8.46	9.83	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
	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]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
<b>Refrigerant Charge Oz. [g]</b>				
	100 [2835]	117 [3317]	136 [3856]	186 [5273]
<b>Weights</b>				
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]	993 [450]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]	1032 [468]

See Page 19 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2013 COMPLIANT MODELS

Model RACDZT Series	ZT090	ZT102	ZT120	ZT150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3200 [1416/1510]	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 <sup>3</sup>	14.8	14.8	14.8	14.2
Net System Power kW	7.35	8.46	10.49	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	2 / 18 [7]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.5 [12.7]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
<b>Refrigerant Charge Oz. [g]</b>				
	100 [2835]	117 [3317]	136 [3856]	186 [5273]
<b>Weights</b>				
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]	993 [450]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]	1032 [468]

See Page 19 for Notes.

[ ] Designates Metric Conversions

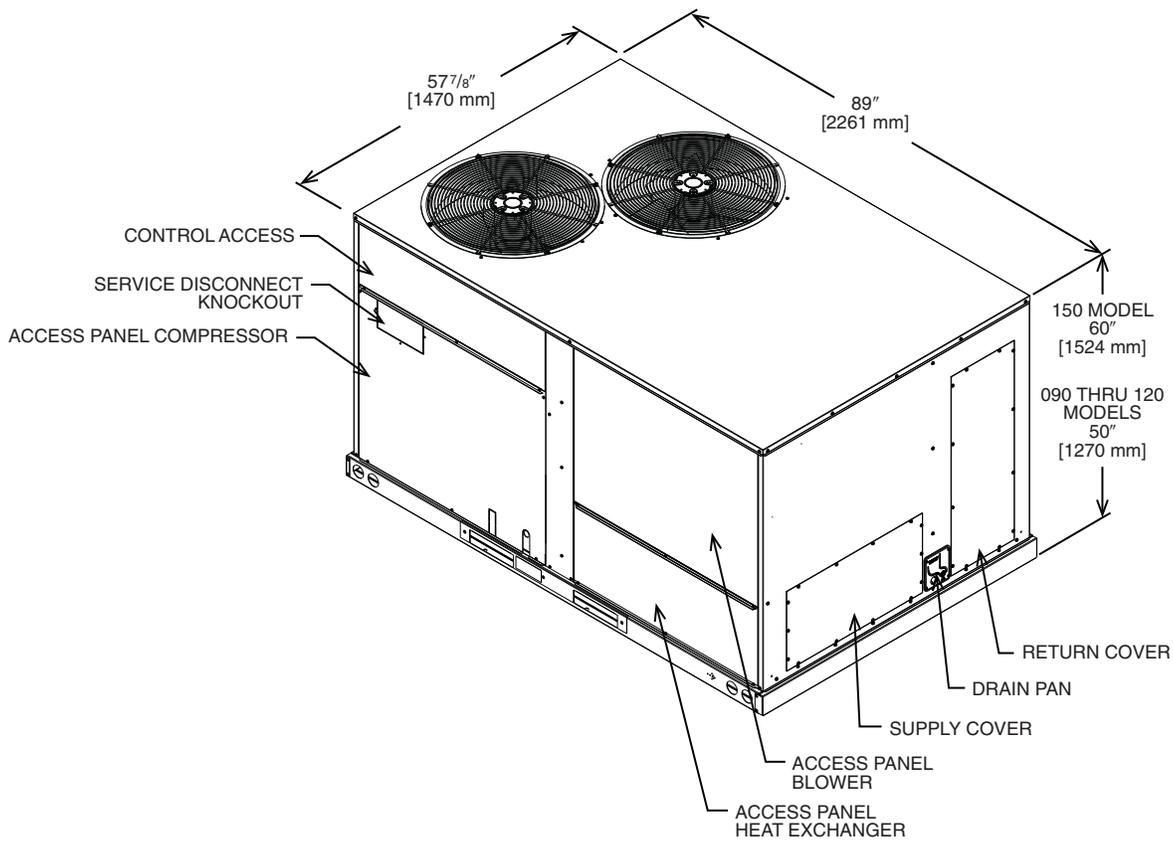


Illustration ST-A1273-26-00

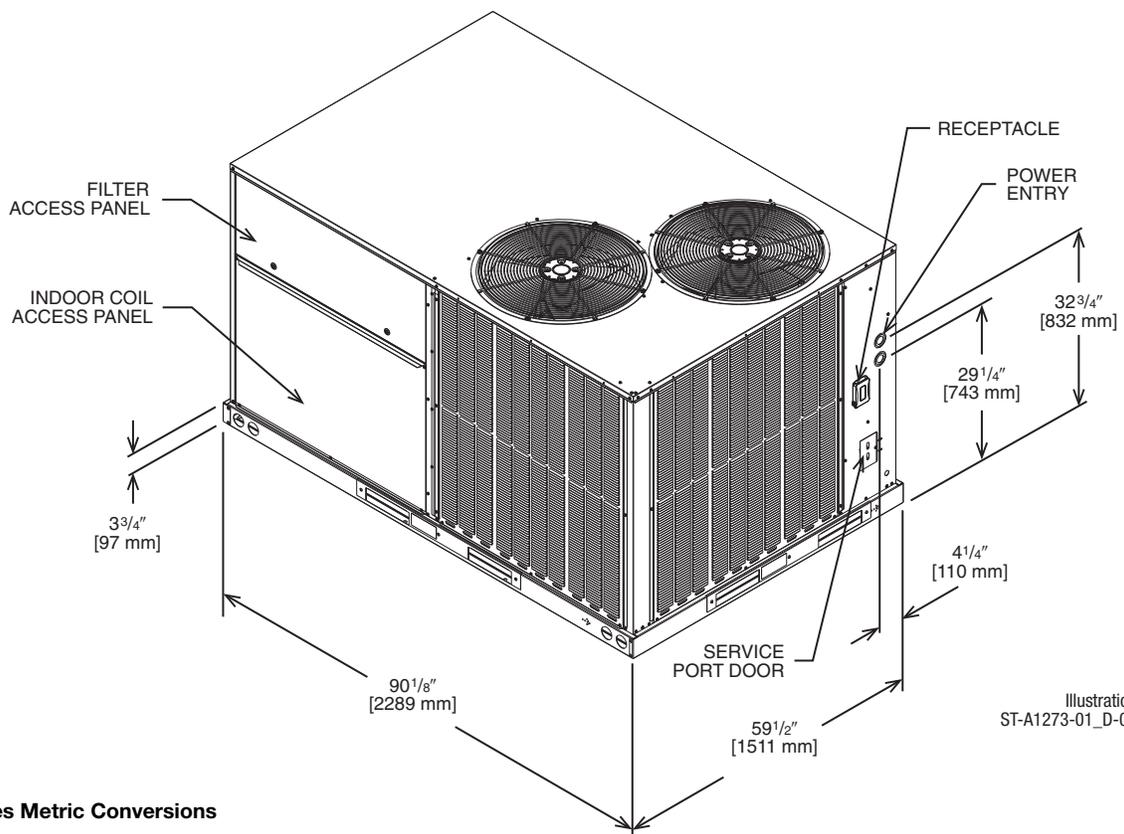


Illustration ST-A1273-01\_D-00

[ ] Designates Metric Conversions



The new degree of comfort.™

## **Commercial Renaissance™ Line Package Gas Electric Units**



### **RGEDZT Commercial Prestige® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Standard VFD and optional HumidiDry™ Technology  
ASHRAE 90.1-2013 Compliant Models

### **RGEDZS Commercial Classic Plus® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Optional VFD and HumidiDry™ Technology  
ASHRAE 90.1-2010 Compliant Models  
ASHRAE 90.1-2013 Compliant Models

### **RGEDZR Commercial Classic® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
ASHRAE 90.1-2010 Compliant Models





**R GE D ZT 090 A C A 15 2 A A \*\*\***  
**1 23 4 56 789 10 11 12 13 14 15 16 17 18 19 20**

**1 – Brand**

R = Rheem

**2, 3 – Unit Type**

GE = Package Gas Electric

**4 – Cabinet Type**

D = Small Commercial

**5, 6 – Series**

ZT<sup>1</sup> = Tier 1 (*Commercial Prestige® Series*)

ZS<sup>2</sup> = Tier 2 (*Commercial Classic Plus® Series*)

ZR<sup>3</sup> = Tier 3 (*Commercial Classic® Series*)

**7, 8, 9 – Capacity**

090 = 7.5 ton

102 = 8.5 ton

120 = 10 ton

150 = 12.5 ton<sup>4</sup>

**10 – Major series**

A

**11 – Voltage**

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phase 575/60

**12 – Drive**

A = belt low static

B = belt med static

C = belt high static

F = belt VFD low static

G = belt VFD med static

H = belt VFD high static

**13, 14 – Heat Capacity**

15 = 150k

20 = 205k<sup>5</sup>

22 = 225k<sup>6</sup>

**15 – Heat Configuration**

2 = 2 stage

B = 2 stage Stainless

**16 – Control**

A = Non communicating

B = Comfort Alert/Phase Monitor

C = Clear Control

D = Clear Control & Comfort Alert

**17 – Minor series**

A

**18, 19, 20 – Option Code**

See page 14

Notes:

1. ZT Series – can only select VFD drives (F, G, H) in character 12
2. ZS Series – can select any of the drive options in character 12
3. ZR Series – can only select standard drives (A, B, C) in character 12
4. ZR Series not available for 12.5 ton models
5. 205k heat capacity can only be selected for 7.5 ton models
6. 225k heat capacity can only be selected for 8.5 to 12.5 ton models



## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RGEDZR - Series	ZR090	ZR102	ZR120
<b>Cooling Performance<sup>1</sup></b>			
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/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 <sup>3</sup>	12.7	12.7	12.7
Net System Power kW	7.53	8.51	9.86
<b>Compressor</b>			
No./Type	1/Scroll	1/Scroll	1/Scroll
No. Stages	1	1	1
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>			
	88	88	88
<b>Outdoor Coil - Fin Type</b>			
	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]
<b>Indoor Coil - Fin Type</b>			
	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]
<b>Outdoor Fan - Type</b>			
	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
<b>Indoor Fan - Type</b>			
	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
<b>Filter - Type</b>			
	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]
<b>Refrigerant Charge Oz. [g]</b>			
	100 [2835]	117 [3317]	136 [3856]
<b>Weights</b>			
Net Weight lbs. [kg]	839 [381]	868 [394]	896 [406]
Ship Weight lbs. [kg]	878 [398]	907 [411]	935 [424]

See Page 19 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RGEDZS - Series	ZS090	ZS102	ZS120A	ZS150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/3750 [2360/1770]
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 <sup>3</sup>	12.7	12.7	12.7	12.2
Net System Power kW	7.35	7.35	9.83	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
	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]
<b>Indoor Coil - Fin Type</b>				
	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]
<b>Outdoor Fan - Type</b>				
	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
<b>Indoor Fan - Type</b>				
	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
<b>Filter - Type</b>				
	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]
<b>Refrigerant Charge Oz. [g]</b>				
	100 [2835]	117 [3317]	136 [3856]	186 [5273]
<b>Weights</b>				
Net Weight lbs. [kg]	839 [381]	868 [394]	896 [406]	1094 [496]
Ship Weight lbs. [kg]	878 [398]	907 [411]	935 [424]	1133 [514]

See Page 19 for Notes.

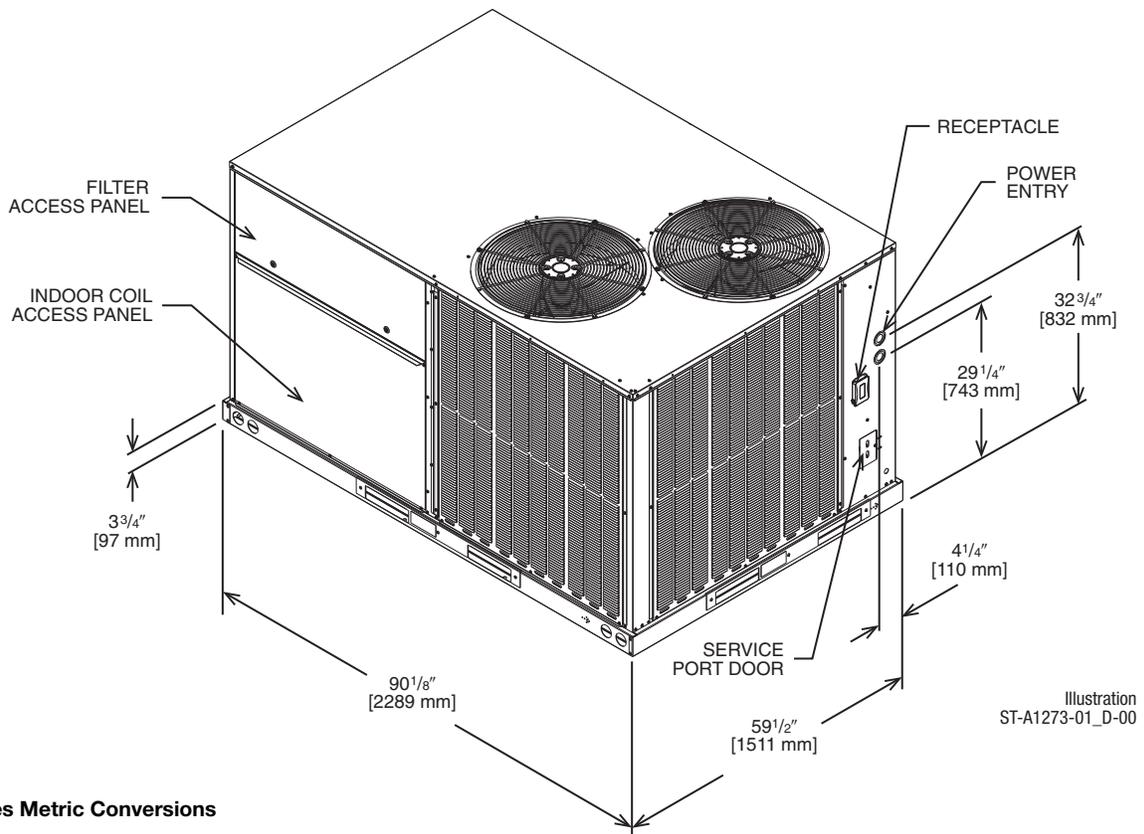
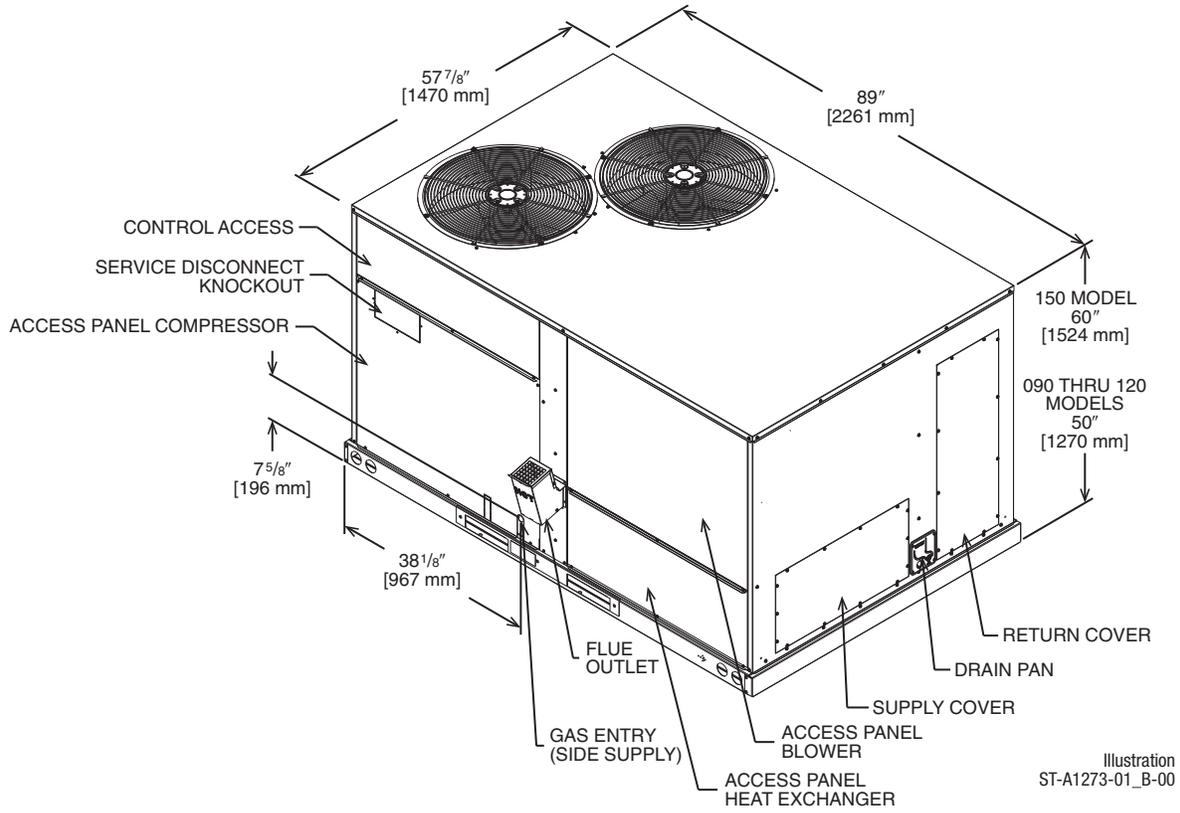
[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2013 COMPLIANT MODELS

Model RGEDZT - Series	ZT090	ZT102	ZT120	ZT150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/3750 [2360/1770]
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 <sup>3</sup>	14.6	14.6	14.6	14
Net System Power kW	7.35	7.35	9.83	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
	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]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	184
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
<b>Refrigerant Charge Oz. [g]</b>				
	117 [3317]	136 [3856]	186 [5273]	
<b>Weights</b>				
Net Weight lbs. [kg]	839 [381]	868 [394]	896 [406]	1094 [496]
Ship Weight lbs. [kg]	878 [398]	907 [411]	935 [424]	1133 [514]

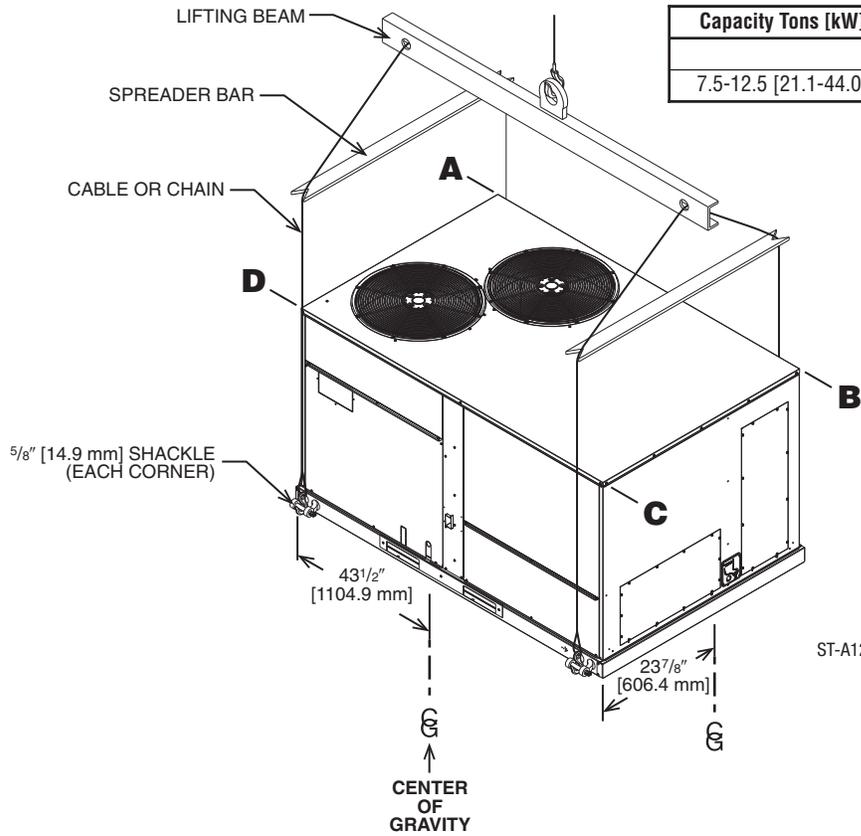
See Page 19 for Notes.

[ ] Designates Metric Conversions



[ ] Designates Metric Conversions

# WEIGHTS



Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5-12.5 [21.1-44.0]	26%	34%	17%	23%

Illustration  
ST-A1273-01\_J-00

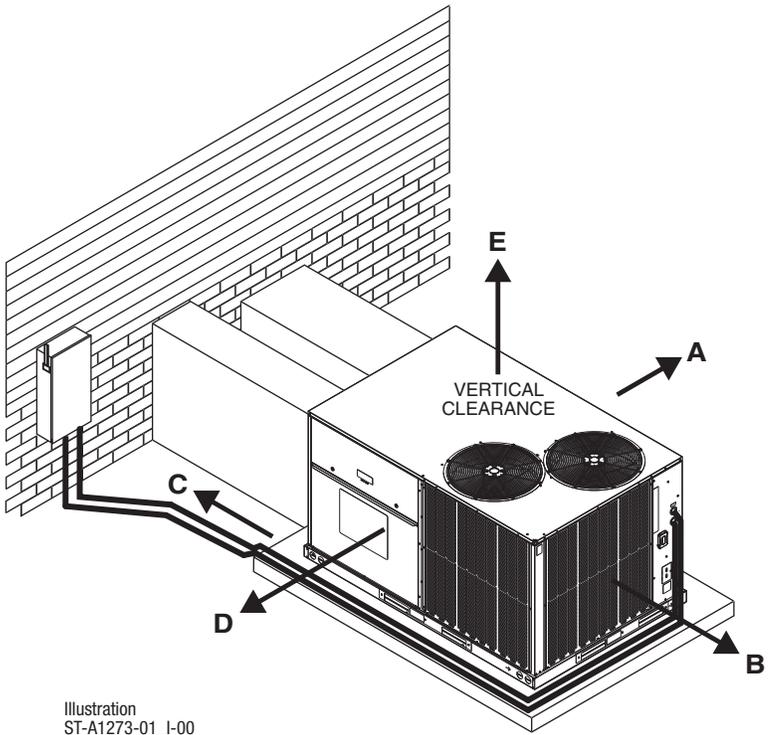


Illustration  
ST-A1273-01\_I-00

### CLEARANCES

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

RECOMMENDED CLEARANCE In. [mm]	LOCATION
48 [1219]	A - FRONT
24 [609]	B - CONDENSER END
48 [1219] ①	C - DUCT END
24 [609] ②	D - FILTER SIDE
60 [1524]	E - ABOVE

① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.  
② 48" [1219 MM] MINIMUM IF ECONOMIZER IS INSTALLED.

[ ] Designates Metric Conversions



The new degree of comfort.™

## Commercial 7.5-10 Ton Renaissance™ Line Package Heat Pump



### **RHPDZT Commercial Prestige® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
Standard VFD Technology  
ASHRAE 90.1-2013 Compliant Models

### **RHPDZS Commercial Classic Plus® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
Optional VFD Technology  
ASHRAE 90.1-2007 Compliant Models  
ASHRAE 90.1-2013 Compliant Models

### **RHPDZR Commercial Classic® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
ASHRAE 90.1-2007 Compliant Models



<b>R</b>	<b>HP</b>	<b>D</b>	<b>ZT</b>	<b>090</b>	<b>A</b>	<b>C</b>	<b>F</b>	<b>15</b>	<b>2</b>	<b>A</b>	<b>B</b>	<b>***</b>
<b>1</b>	<b>23</b>	<b>4</b>	<b>56</b>	<b>789</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13 14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18 19 20</b>

**1 – Brand**

R = Rheem

**2, 3 – Unit Type**

HP = Package Heat Pump

**4 – Cabinet Type**

D = Medium Commercial

**5, 6 – Series**

 ZT<sup>1</sup> = Tier 1 (*Commercial Prestige® Series*)

 ZS<sup>2</sup> = Tier 2 (*Commercial Classic Plus® Series*)

 ZR<sup>3</sup> = Tier 3 (*Commercial Classic® Series*)

**7, 8, 9 – Capacity**

090 = 7.5 ton

102 = 8.5 ton

120 = 10 ton

**10 – Major series**

A

**11 – Voltage**

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phase 575/60

**12 – Drive**

A = belt low static

B = belt med static

C = belt high static

F = belt VFD low static

G = belt VFD med static

H = belt VFD high static

**13, 14 – Heat Capacity**

00 = No Heat

10 = 10kw

15 = 15kw

20 = 20kw

30 = 30kw

40 = 40kw

**15 – Number of stages**

0 = no stages

1 = 1 stage

2 = 2 stage

**16 – Control**

A = Non communicating

B = Comfort Alert/Phase Monitor

C = Clear Control

D = Clear Control &amp; Comfort Alert

**17 – Minor series**

B

**18, 19, 20 – Option Code**

See next page

**Notes:**

1. ZT – can only select VFD drives (F, G, H) in character 12
2. ZS – can select any of the drive options in character 12
3. ZR – can only select standard drives (A, B, C) in character 12

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	090ACA	090ACB	090ACC	090ADA
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	2	3	3	2
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	775 [352]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	814 [369]	825 [374]	814 [369]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	090ADB	090ADC	090AYA	090AYB
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	775 [352]	775 [352]	785 [356]
Ship Weight lbs. [kg]	814 [369]	814 [369]	814 [369]	824 [374]

See Page 38 for Notes.

[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	090AYC	102ACA	102ACB	102ACC
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	23,200 [6.8]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	6.84/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	6.44/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.8 [2.12]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	2	3	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	786 [357]	811 [368]	811 [368]	822 [373]
Ship Weight lbs. [kg]	825 [374]	850 [386]	850 [386]	861 [391]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	102ADA	102ADB	102ADC	102AYA
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	811 [368]	821 [372]	822 [373]	811 [368]
Ship Weight lbs. [kg]	850 [386]	860 [390]	861 [391]	850 [386]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	102AYB	102AYC	120ACA	120ACB
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	7.99/3.3	7.99/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	7.54/2.3	7.54/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.4 [2.08]	22.4 [2.08]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	197 [5585]	197 [5585]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	821 [372]	822 [373]	863 [391]	863 [391]
Ship Weight lbs. [kg]	860 [390]	861 [391]	902 [409]	902 [409]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	120ACC	120ADA	120ADB	120ADC
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED →</b>
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	2	3	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	874 [396]	863 [391]	863 [391]	874 [396]
Ship Weight lbs. [kg]	913 [414]	902 [409]	902 [409]	913 [414]

See Page 38 for Notes.

[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	120AYA	120AYB	120AYC
<b>Cooling Performance<sup>1</sup></b>			
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>			
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>			
No./Type	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>			
	88	88	88
<b>Outdoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
	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]
<b>Outdoor Fan - Type</b>			
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
	1075	1075	1075
<b>Indoor Fan - Type</b>			
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single
Motor HP	1	1	1
Motor RPM	2	3	3
Motor Frame Size	1725	1725	1725
	56	56	56
<b>Filter - Type</b>			
Furnished	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>			
	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>			
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	090ACA	090ACB	090ACC	090ACF
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	814 [369]

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[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	090ACG	090ACH	090ADA	090ADB
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	785 [356]	786 [357]	775 [352]	785 [356]
Ship Weight lbs. [kg]	824 [374]	825 [374]	814 [369]	824 [374]

**CONTINUED** →

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	090ADC	090ADF	090ADG	090ADH
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	786 [357]	775 [352]	785 [356]	786 [357]
Ship Weight lbs. [kg]	825 [374]	814 [369]	824 [374]	825 [374]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	090AYA	090AYB	090AYC	102ACA
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	71,000 [20.8]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	98,000 [28.71]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	60,000 [17.58]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1 [25.4]	1.26 [32]
Rows / FPI [FPcm]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.4 [2.08]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	2	3	3	2
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	179 [5075]	179 [5075]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	811 [368]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	850 [386]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	102ACB	102ACC	102ACF	102ACG
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	821 [372]	822 [373]	811 [368]	821 [372]
Ship Weight lbs. [kg]	860 [390]	861 [391]	850 [386]	860 [390]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	102ACH	102ADA	102ADB	102ADC
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>				
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	822 [373]	811 [368]	821 [372]	822 [373]
Ship Weight lbs. [kg]	861 [391]	850 [386]	860 [390]	861 [391]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	102ADF	102ADG	102ADH	102AYA
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	811 [368]	821 [372]	822 [373]	811 [368]
Ship Weight lbs. [kg]	850 [386]	860 [390]	861 [391]	850 [386]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	102AYB	102AYC	120ACA	120ACB
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	7.99/3.3	7.99/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	7.54/2.3	7.54/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.4 [2.08]	22.4 [2.08]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	197 [5585]	197 [5585]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	821 [372]	822 [373]	863 [391]	873 [396]
Ship Weight lbs. [kg]	860 [390]	861 [391]	902 [409]	912 [414]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	120ACC	120ACF	120ACG	120ACH
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	2	3	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	874 [396]	863 [391]	873 [396]	874 [396]
Ship Weight lbs. [kg]	913 [414]	902 [409]	912 [414]	913 [414]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	120ADA	120ADB	120ADC	120ADF
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	2	3	3	2
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]	863 [391]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]	902 [409]

**CONTINUED** 

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	120ADG	120ADH	120AYA	120AYB
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	0.26 [6.6]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	873 [396]	874 [396]	863 [391]	873 [396]
Ship Weight lbs. [kg]	912 [414]	913 [414]	902 [409]	912 [414]

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[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	120AYC
<b>Cooling Performance<sup>1</sup></b>	
Gross Cooling Capacity Btu [kW]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]
IEER <sup>3</sup>	12.2
Net System Power kW	10.13
<b>Heating Performance (Heat Pumps)</b>	
High Temp. Btuh [kW] Rating	114,000 [33.4]
System Power KW / COP	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]
System Power KW / COP	8.3/2.3
<b>Compressor</b>	
No./Type	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	
88	
<b>Outdoor Coil - Fin Type</b>	
Louvered	
Tube Type	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]
Refrigerant Control	TX Valves
<b>Indoor Coil - Fin Type</b>	
Louvered	
Tube Type	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]
Refrigerant Control	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	
Propeller	
No. Used/Diameter in. [mm]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1
CFM [L/s]	8000 [3775]
No. Motors/HP	2 at 1/2 HP
Motor RPM	1075
<b>Indoor Fan - Type</b>	
FC Centrifugal	
No. Used/Diameter in. [mm]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)
No. Speeds	Single
No. Motors	1
Motor HP	3
Motor RPM	1725
Motor Frame Size	56
<b>Filter - Type</b>	
Disposable	
Furnished	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>	
213 [6039]	
<b>Weights</b>	
Net Weight lbs. [kg]	874 [396]
Ship Weight lbs. [kg]	913 [414]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	090ACF	090ACG	090ACH	090ADF
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	14.1	14.1	14.1	14.1
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.4	6.84/3.4	6.84/3.4	6.84/3.4
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	814 [369]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	090ADG	090ADH	102ACF	102ACG
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	14.1	14.1	14.1	14.1
Net System Power kW	7.55	7.55	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	6.84/3.4	6.84/3.4	7.99/3.4	7.99/3.4
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	6.44/2.3	6.44/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.8 [2.12]	22.8 [2.12]	22.4 [2.08]	22.4 [2.08]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	179 [5075]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	785 [356]	786 [357]	811 [368]	821 [372]
Ship Weight lbs. [kg]	824 [374]	825 [374]	850 [386]	860 [390]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	102ACH	102ADF	102ADG	102ADH
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	14.1	14.1	14.1	14.1
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.4	7.99/3.4	7.99/3.4	7.99/3.4
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	2	3	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	822 [373]	811 [368]	821 [372]	822 [373]
Ship Weight lbs. [kg]	861 [391]	850 [386]	860 [390]	861 [391]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	120ACF	120ACG	120ACH	120ADF
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	14.1	14.1	14.1	14.1
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.4	9.03/3.4	9.03/3.4	9.03/3.4
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	2	3	3	2
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]	863 [391]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]	902 [409]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	120ADG	120ADH
<b>Cooling Performance<sup>1</sup></b>		
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	14.1	14.1
Net System Power kW	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>		
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.4	9.03/3.4
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3
<b>Compressor</b>		
No./Type	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>		
	88	88
<b>Outdoor Coil - Fin Type</b>		
Tube Type	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>		
Tube Type	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>		
No. Used/Diameter in. [mm]	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP	2 at 1/2 HP
	1075	1075
<b>Indoor Fan - Type</b>		
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single
Motor HP	1	1
Motor RPM	3	3
Motor Frame Size	1725	1725
	56	56
<b>Filter - Type</b>		
Furnished	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>		
	213 [6039]	213 [6039]
<b>Weights</b>		
Net Weight lbs. [kg]	873 [396]	874 [396]
Ship Weight lbs. [kg]	912 [414]	913 [414]

See Page 38 for Notes.

[ ] Designates Metric Conversions

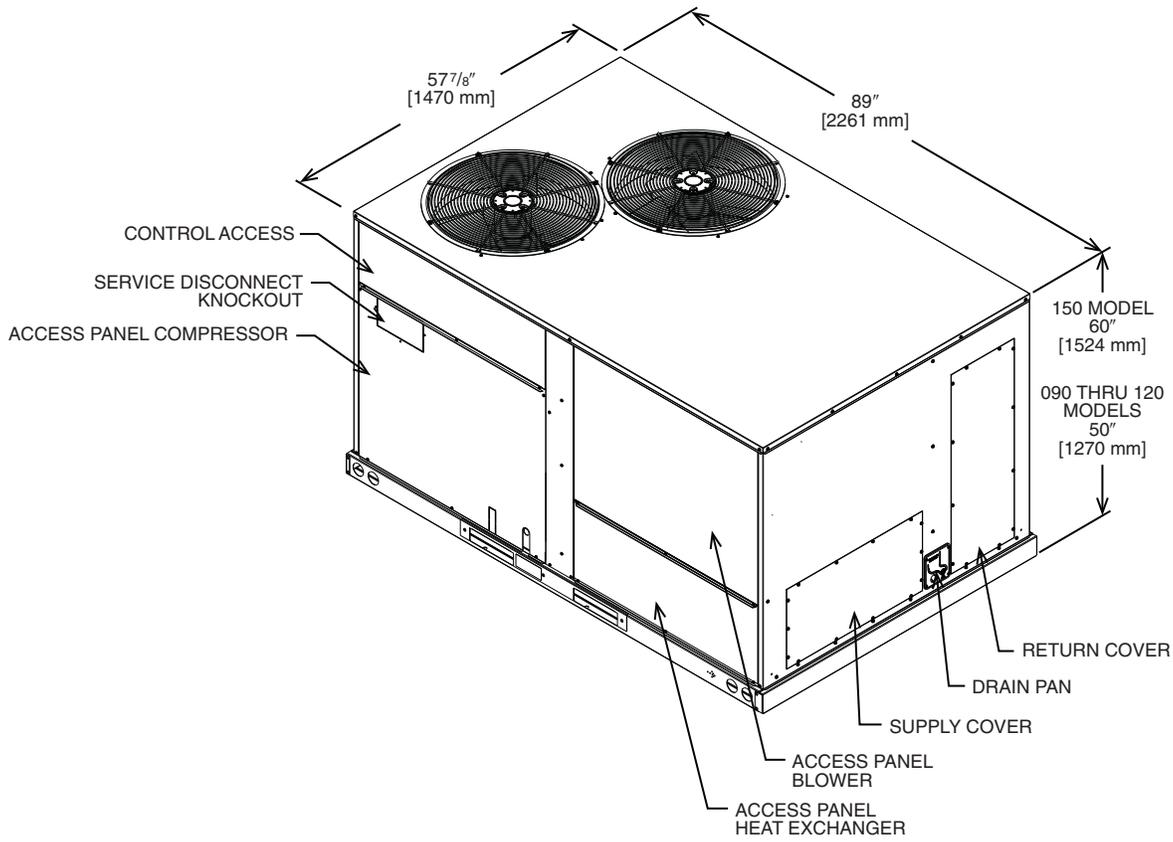


Illustration ST-A1273-26-00

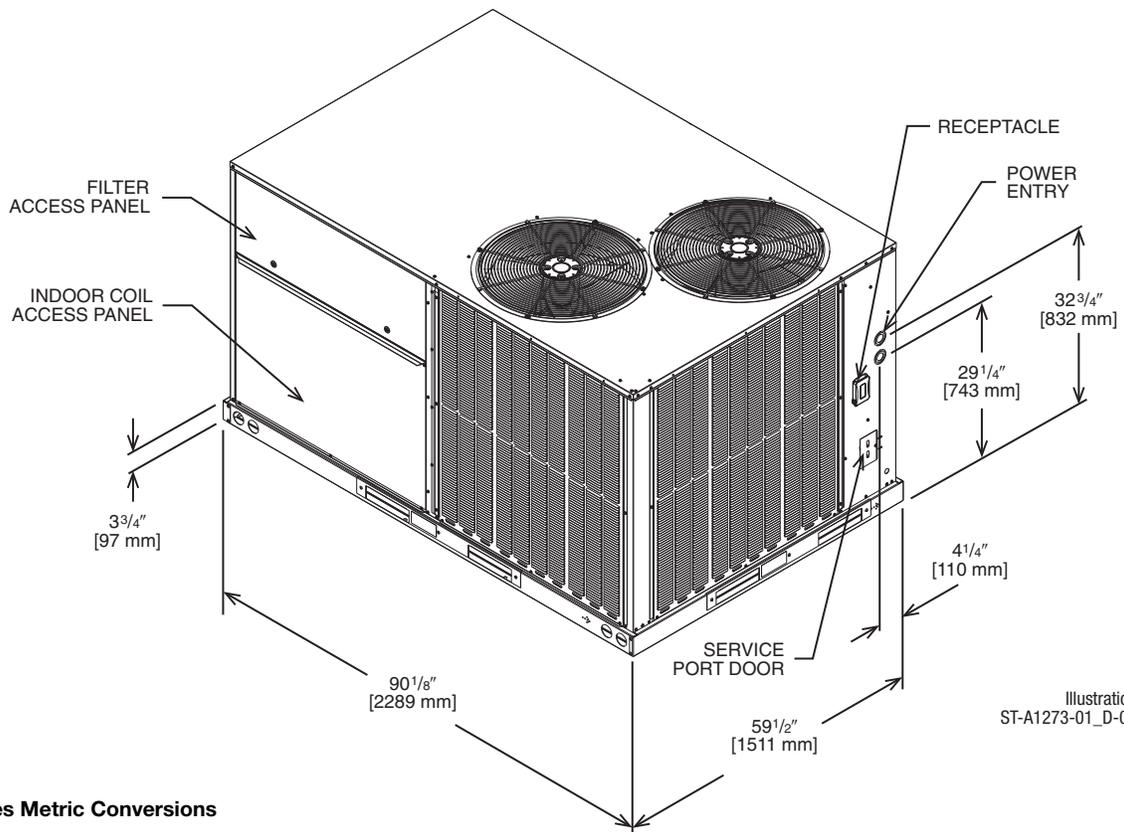


Illustration ST-A1273-01\_D-00

[ ] Designates Metric Conversions

# WEIGHTS

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5-12.5 [21.1-44.0]	26%	34%	17%	23%

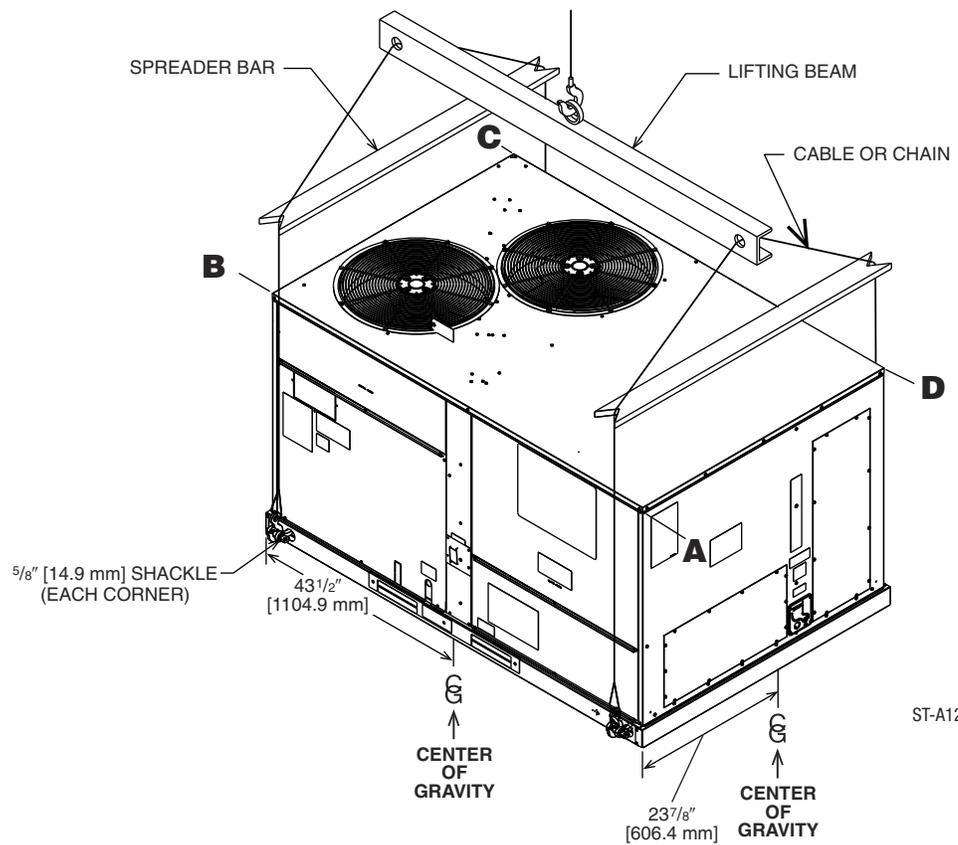


Illustration  
ST-A1273-01\_J-00

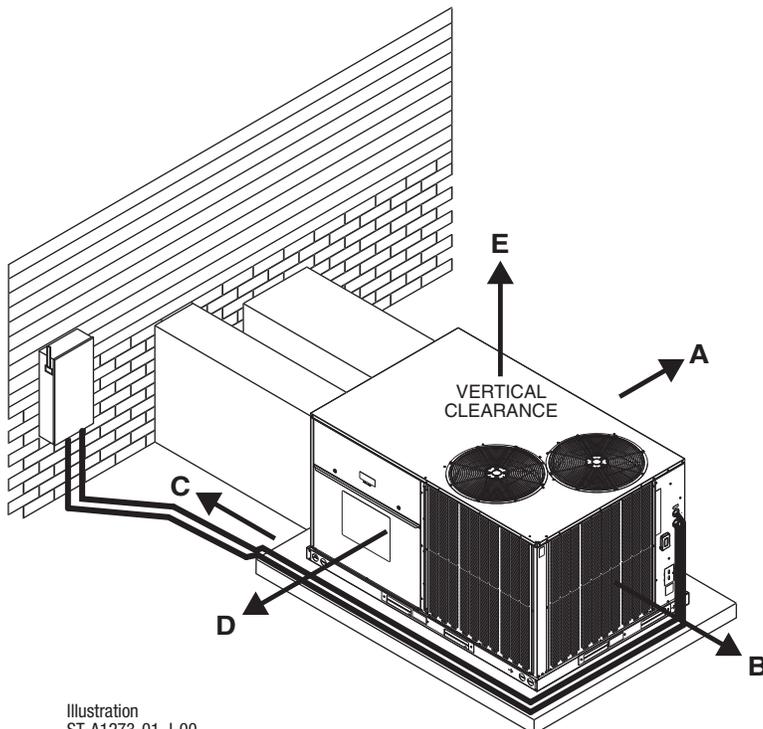


Illustration  
ST-A1273-01\_J-00

## CLEARANCES

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

RECOMMENDED CLEARANCE In. [mm]	LOCATION
48 [1219]	A - FRONT
24 [609]	B - CONDENSER END
48 [1219] ①	C - DUCT END
24 [609] ②	D - FILTER SIDE
60 [1524]	E - ABOVE

① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.

② 48" [1219 MM] MINIMUM IF ECONOMIZER IS INSTALLED.

## Screw Capacities

### Table Notes

- Capacities based on AISI S100 Section E4.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected.
- Capacities are based on Allowable Strength Design (ASD) and include safety factor of 3.0.
- Where multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal diameter (d).
- Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal diameter (d) of the screw.
- Pull-out capacity is based on the lesser of pull-out capacity in sheet closest to screw tip or tension strength of screw.
- Pull-over capacity is based on the lesser of pull-over capacity for sheet closest to screw header or tension strength of screw.
- Values are for pure shear or tension loads. See AISI Section E4.5 for combined shear and pull-over.
- Screw Shear (Pss), tension (Pts), diameter, and head diameter are from CFSEI Tech Note (F701-12).
- Screw shear strength is the average value, and tension strength is the lowest value listed in CFSEI Tech Note (F701-12).
- Higher values for screw strength (Pss, Pts), may be obtained by specifying screws from a specific manufacturer.

### Allowable Screw Connection Capacity (lbs)

Thickness (Mils)	Design Thickness	Fy Yield (ksi)	Fu Tensile (ksi)	#6 Screw (Pss = 643 lbs, Pts = 419 lbs)			#8 Screw (Pss = 1278 lbs, Pts = 586 lbs)			#10 Screw (Pss = 1644 lbs, Pts = 1158 lbs)			#12 Screw (Pss = 2330 lbs, Pts = 2325 lbs)			1/4" Screw (Pss = 3048 lbs, Pts = 3201 lbs)		
				0.138" dia, 0.272" Head			0.164" dia, 0.272" Head			0.190" dia, 0.340" Head			0.216" dia, 0.340" Head			0.250" dia, 0.409" Head		
				Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over
18	0.0188	33	33	44	24	84	48	29	84	52	33	105	55	38	105	60	44	127
27	0.0283	33	33	82	37	127	89	43	127	96	50	159	102	57	159	110	66	191
30	0.0312	33	33	95	40	140	103	48	140	111	55	175	118	63	175	127	73	211
33	0.0346	33	45	151	61	140	164	72	195	177	84	265	188	95	265	203	110	318
43	0.0451	33	45	214	79	140	244	94	195	263	109	345	280	124	345	302	144	415
54	0.0566	33	45	214	100	140	344	118	195	370	137	386	394	156	433	424	180	521
68	0.0713	33	45	214	125	140	426	149	195	523	173	386	557	196	545	600	227	656
97	0.1017	33	45	214	140	140	426	195	195	548	246	386	777	280	775	1,016	324	936
118	0.1242	33	45	214	140	140	426	195	195	548	301	386	777	342	775	1,016	396	1,067
54	0.0566	50	65	214	140	140	426	171	195	534	198	386	569	225	625	613	261	752
68	0.0713	50	65	214	140	140	426	195	195	548	249	386	777	284	775	866	328	948
97	0.1017	50	65	214	140	140	426	195	195	548	356	386	777	405	775	1,016	468	1,067
118	0.1242	50	65	214	140	140	426	195	195	548	386	386	777	494	775	1,016	572	1,067

18 GA →

## Weld Capacities

### Table Notes

- Capacities based on the AISI S100 Specification Sections E2.4 for fillet welds and E2.5 for flare groove welds.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values.
- Capacities are based on Allowable Strength Design (ASD).
- Weld capacities are based on E60 electrodes. For material thinner than 68 mil, 0.030" to 0.035" diameter wire electrodes may provide best results.
- Longitudinal capacity is considered to be loading in the direction of the length of the weld.
- Transverse capacity is loading in perpendicular direction of the length of the weld.
- For flare groove welds, the effective throat of weld is conservatively assumed to be less than 2t.
- For longitudinal fillet welds, a minimum value of EQ E2.4-1, E2.4-2, and E2.4-4 was used.
- For transverse fillet welds, a minimum value of EQ E2.4-3 and E2.4-4 was used.
- For longitudinal flare groove welds, a minimum value of EQ E2.5-2 and E2.5-3 was used.

### Allowable Weld Capacity (lbs / in)

Thickness (Mils)	Design Thickness	Fy Yield (ksi)	Fu Tensile (ksi)	Fillet Welds		Flare Groove Welds	
				Longitudinal	Transverse	Longitudinal	Transverse
43	0.0451	33	45	499	864	544	663
54	0.0566	33	45	626	1084	682	832
68	0.0713	33	45	789	1365	859	1048
97	0.1017	33	45	1125	1269	- <sup>1</sup>	- <sup>1</sup>
54	0.0566	50	65	905	1566	985	1202
68	0.0713	50	65	1140	1972	1241	1514
97	0.1017	50	65	1269	1269	- <sup>1</sup>	- <sup>1</sup>

<sup>1</sup>Weld capacity for material thickness greater than 0.10" requires engineering judgment to determine leg of welds, W1 and W2.

**Installation Instructions:**

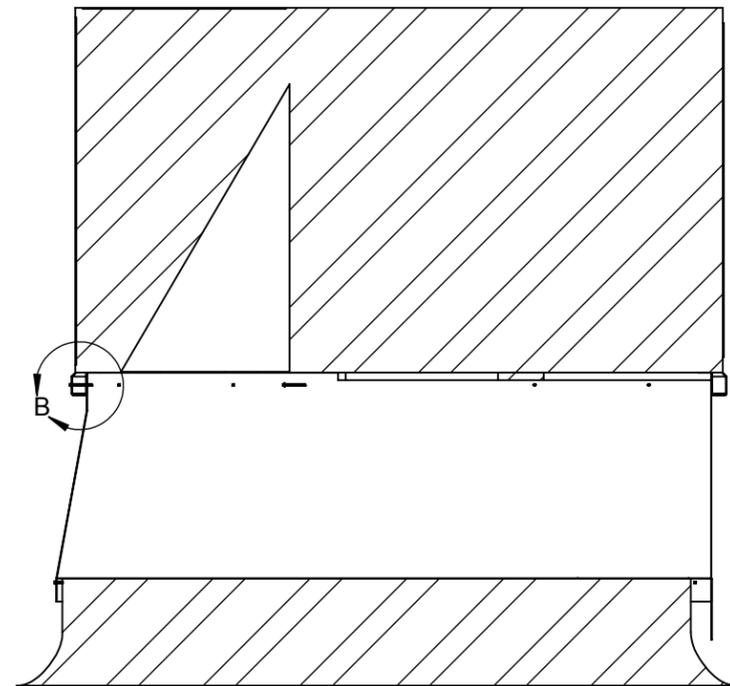
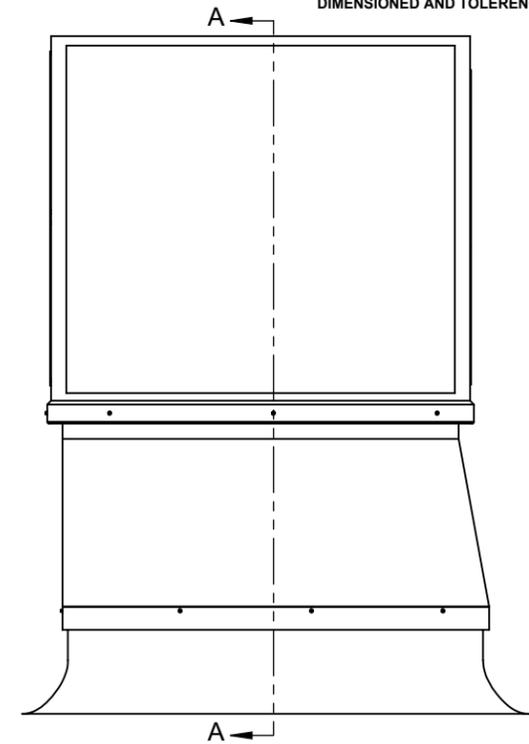
- 1) Remove existing RTU and curb adapter if applicable.
- 2) Clean surface of existing curb of any gasket or caulk. Apply CDI provided gasket around perimeter of curb and around all duct connections.
- 3) Set CDI curb adapter onto existing curb and align supply and return ducts. Some adapters may require cutting supply and/or return duct openings.
- 4) Gasket top surface of adapter around perimeter and around the supply and return openings.
- 5) Install RTU as normal.
- 6) Install 1/4" x 4" self tapping sheet metal screws (CDI supplied) 2-1/2"-2-3/4" up from the bottom of the edge of the adapter. Screws should go through the base flange of the adapter and into the existing curb return flange & wall. Each side of the curb adapter to use to the exact number of screws as called out in the report.
- 7) Install 1/4" x 4" self tapping sheet metal screws (cdi supplied) through the center of the RTU base rail and into the curb adapter side wall. Each side of the curb adapter to use to the exact number of screws as called out in the report.

Attn: Installing Contractor Tag: \_\_\_\_\_

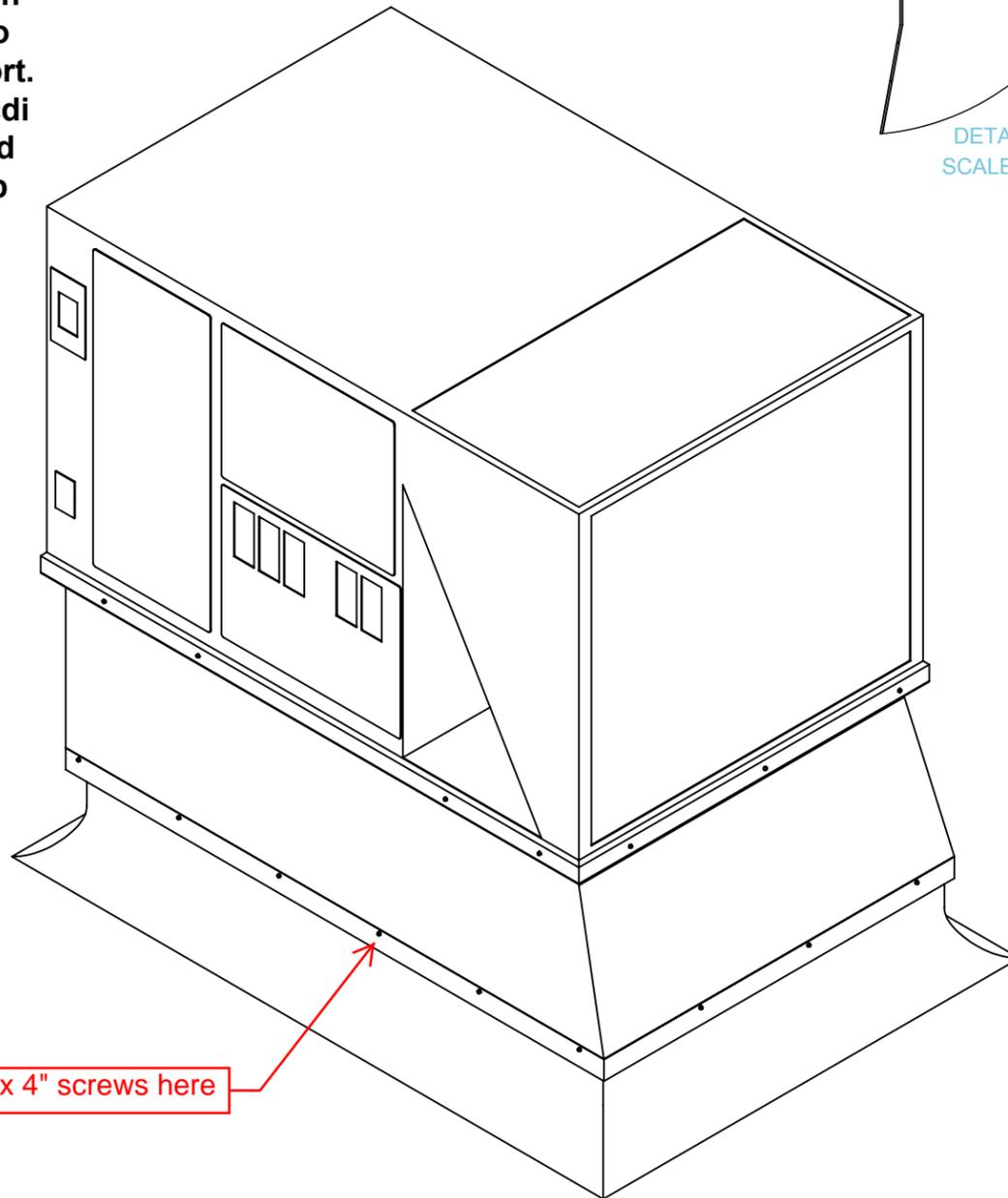
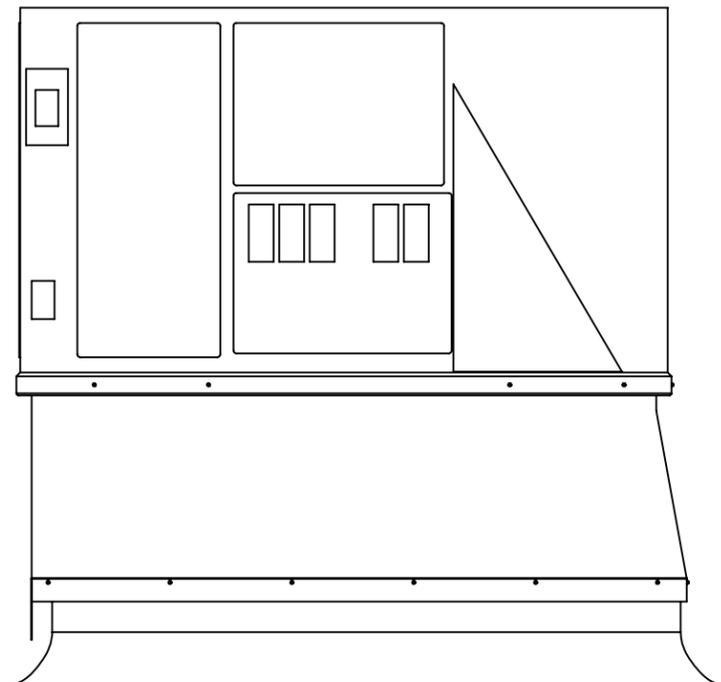
1/4" x 4" screws here

RTU AND CURB SHOWN FOR DISPLAY PURPOSES ONLY. YOUR INSTALLED PRODUCT MAY DIFFER

DETAIL B  
SCALE 1 : 4



SECTION A-A



1/4" x 4" screws here

APPROVALS		DATE	TITLE:	
DRAWN: dsamuelson			ALL SCREWS Hurricane Hold Down Drawing rev8 AZH	
CHECKED:			FILE NAME:	DRAWING NO.:
Tuesday, February 03, 2015 10:16:08 AM			ECO #:	REV: 8
17560 TYLER ST NW ELK RIVER, MN 55330 (763)391-7790 (763)391-7851		SCALE: 1:24	SHEET: 1	OF 1



Wind Review and Analysis  
For Rheem  
RACDT/RHPD/RGED  
090/102/120/150 Rooftop unit  
under a maximum wind speed  
of 185 MPH and a building up to  
60' tall.  
Location: Florida

Author: Mark Greenwood

## Table of Contents

<b>Rooftop Unit Attachment to Curb</b>	<b>3</b>
Curb Attachment to Structure	4
Rooftop Equipment	8
Sheet Metal Screw Properties	49
Installation Instructions	50

## **Rooftop Unit Attachment to Curb Adapter Analysis**

### **Description**

In this section of the report we will evaluate the attachment of the rooftop unit to the curb.

**Rooftop Unit** Rheem RACD/RHPD/RGED 090-150 operating weight 775 to 1094 lbs. (see appendix)

**Site Location** Florida, Miami-Dade County, HVHZ, wind requirement of 185 mph max

**Building** Retail Facility, 60' tall max.

**Risk Category: II**

### **Assumptions**

1. Building code: 2012 IBC  
Lateral wind forces per ASCE7-10 & FBC2017
2. Structure height and average roof height to be assumed equal
3. The lighter weighted units will be more at risk for connection failure than the similar chassis heavier units
4. Existing curb's attachment to roof structure by others.

**The attachment of a Rheem RACD/RHPD/RGED 090-150 rooftop unit to a CDI 1-6010-6025 GEMAIRE curb adapter that meets the criteria for 185 MPH winds is as follows. The attachment shall be facilitated by using a minimum of qty-37 1/4-20 self-drilling screws per long side and a minimum of qty-30 1/4-20 self-drilling screws per short side of the RTU (total of 134).**

**For the attachment of the CDI curb adapter to the existing roof curb, this shall be done by using a minimum of qty-47 1/4-20 self-drilling screws per long side and a minimum of qty-40 1/4-20 self-drilling screws per short side of the RTU (total of 174). Each of the 1/4-20 screws must be of sufficient length to secure the curb adapter to the existing roofed in curb (metal must be min of 18ga).**

## ASCE 7-10 WIND LOADS

### 29.5.1 Rooftop Structures and Equipment for Building with $h \leq 60$ ft

State location of job: **FL**

#### Basic wind design criteria:

Wind Speed  $V = 185$  mph

Exposure category = **C**

Mean roof height  $h = 60$  ft (if FL building code enter height,  $z$ , to center of pressure)

#### Wind pressure formulas and input data:

$$q_h = .00256 K_z K_{zt} K_d V^2 \quad \text{Eq. 29.3-1}$$

Topography factor  $K_{zt} = 1.0$

Directionality factor  $K_d = 0.90$  Table 26.6-1

Exposure coefficient  $K_z = 1.14$  Table 29.3-1 note 1

$$\text{Lateral force } F_h = q_h (GC_r) A_f \quad \text{Eq. 29.5-2}$$

Lateral  $(GC_r) = 3.10$  If FL building code enter 3.1

$$\text{Vertical uplift force } F_v = q_h (GC_r) A_r \quad \text{Eq. 29.5-3}$$

Uplift  $(GC_r) = 1.50$

#### Compute $K_z$

For selected exposure category

alpha = 9.5

zg = 900

Table 26.9-1

exposure	alpha	zg
B	7	1200
C	9.5	900
D	11.5	700

for  $h$  less than 15 ft

$$K_z = 2.01 * (15/zg)^{(2/\alpha)} = 0.85$$

for  $h$  greater than 15 ft

$$K_z = 2.01 (z/zg)^{(2/\alpha)} = 1.14$$

#### Design wind pressures (ultimate loads):

$$q_h = 89.62 \quad \text{psf} \quad \text{Eq. 29.3-1}$$

$$\text{Lateral pressure, } F_h/A_f = 277.8 \quad \text{psf} \quad \text{Eq. 29.5-2}$$

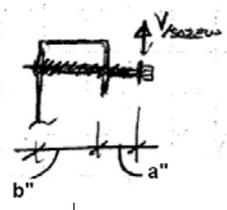
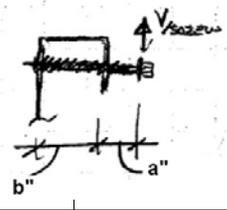
$$\text{Uplift pressure, } F_v/A_r = 134.4 \quad \text{psf} \quad \text{Eq. 29.5-3}$$

where

$A_f$  = vertical projected area of equipment

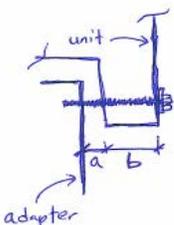
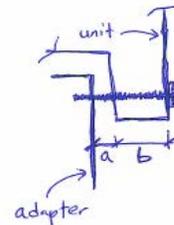
$A_r$  = horizontal projected area of equipment

<b><u>EQUIPMENT WIND OVERTURNING CALCULATIONS ADAPTER CURB</u></b>				
<b><u>Description</u></b>	<b><u>Variable</u></b>	<b><u>Value</u></b>		
<b><u>Unit information</u></b>				
Dead weight of RTU	Wp	1094		
Unit Height Including Adapter (inches)	H	78		
Unit Length(inches)	L	89		
Unit Width(inches)	w	57.9		
Adapter Curb Length(inches)		90.0625		
Adapter Curb Width (inches)		85.375		
Adapter Curb height(inches)		18		
Unit CG-X1(inches)		45.4		
Unit CG-X2(inches)		43.6		
Unit CG-Y1(inches)		34.7		
Unit CG-Y2(inches)		23.2		
<b><u>Design wind loads (Ultimate)</u></b>				
Lateral pressure (PSF)	Fh/Af	277.8		
Uplift pressure (PSF)	Fv/Ar	134.4		
Projected Area normal to wind (FT^2)	Af	48.2	long side	
Projected Area normal to wind (FT^2)	Af	31.4	short side	
Projected Area normal to UPLIFT wind (FT^2)	Ar	35.8		
Lateral wind force (LBS)	Fh	13394	long side	
Lateral wind force (LBS)	Fh	8714	short side	
Uplift wind force (LBS)	Fv	4811		
<b><u>Compute wind overturning (Long side)</u></b>				
Dist from pivot pt to applied load (ft)	Hcp	3.25		
Dist from pivot pt to resisting force (ft)	Dmin	5.97		
Dist from pivot pt to RTU CG(ft)	Dcg	2.89		
Overturning moment(Mot)=0.6*Fh*Hcp	Mot	26118	ASCE 7-10	
Resisting Moment(Mres)=Wp*0.6*(Dmin-Dcg)	Mres	2020	ASD load	
<b>Uplift = (Mot-Mres)/Dmin+0.6Fv/2 (LBS)</b>	<b>Uplift</b>	<b>5480</b>	combination,	
<b>Shear = 0.6Fh / 2 sides (LBS)</b>	<b>Shear</b>	<b>4018</b>	0.6D + 0.6W	
<b><u>Compute wind overturning (Short side)</u></b>				
Dist from pivot pt to applied load (ft)	Hcp	3.25		
Dist from pivot pt to resisting force (ft)	Dmin	7.46		
Dist from pivot pt to RTU CG(ft)	Dcg	3.78		
Overturning moment(Mot)=0.6*Fh*Hcp	Mot	16991	ASCE 7-10	
Resisting Moment(Mres)=Wp*0.6*(Dmin-Dcg)	Mres	2414	ASD load	
<b>Uplift = (Mot-Mres)/Dmin+0.6Fv/2 (LBS)</b>	<b>Uplift</b>	<b>3397</b>	combination,	
<b>Shear = 0.6Fh / 2 sides (LBS)</b>	<b>Shear</b>	<b>4018</b>	0.6D + 0.6W	
<b>MODEL NUMBER: <u>6025</u></b>				

<b>CONNECTION DESIGN CHECKS ADAPTER CURB</b>				
<b>Determine min. number of screws (Long side)</b>				
No. screws ea. side, n =	47	screws		
1/4" screw root diameter, d =	0.185	in		
Effective spacing =	1.9	in o.c.		
Tscrew = Shear / n =	85.5	lbs		
Vscrew = Uplift / n =	116.6	lbs		
a (Gap between adapter and unit) =	0.75	in		
b (Curb rail width) =	1.75	in		
c=a+b =	2.5	in		
Vmax = Vscrew * c / b =	166.6	lbs		
Mmax = 0.5*Vscrew x a =	43.7	in-lbs		<i>4" long screw to go through flange and web of the curb. Screw tight to 2ply adapter.</i>
Z = d <sup>3</sup> / 6 =	0.001055	in <sup>3</sup>		
fb = Mmax / Z =	41.4	ksi		
Screw capacity: (per SSMA)	<b>1/4" SMS W/ MIN. 18 Ga.</b>			
	Tallow =	144	lbs	
	Vallow =	302	lbs	
	Fb = 70ksi / 1.67 =	41.9	ksi <b>SCREW BENDING O.K.</b>	
Tscrew / Tallow + Vmax / Vallow =		0.98	< 1.0 ==> O.K.	
<b>Determine min. number of screws (Short side)</b>				
No. screws ea. side, n =	40	screws		
Effective spacing =	2.2	in o.c.		
Tscrew = Shear / n =	100.5	lbs		
Vscrew = Uplift / n =	84.9	lbs		
a (Gap between adapter and unit) =	0.75	in		
b (Curb rail width) =	1.75	in		
c=a+b =	2.5	in		
Vmax = Vscrew * c / b =	121.3	lbs		
Mmax = 0.5*Vscrew x a =	31.8	in-lbs		<i>4" long screw to go through flange and web of the curb. Screw tight to 2ply adapter.</i>
Z = d <sup>3</sup> / 6 =	0.001055	in <sup>3</sup>		
fb = Mmax / Z =	30.2	ksi		
Screw capacity: (per SSMA)	<b>1/4" SMS W/ MIN. 18 Ga.</b>			
	Tallow =	144	lbs	
	Vallow =	302	lbs	
	Fb = 70ksi / 1.67 =	41.9	ksi <b>SCREW BENDING O.K.</b>	
Tscrew / Tallow + Vmax / Vallow =		0.98	< 1.0 ==> O.K.	

<b>EQUIPMENT WIND OVERTURNING CALCULATIONS UNIT TO ADAPTER</b>				
<u>Description</u>	<u>Variable</u>	<u>Value</u>		
<b><u>Unit information</u></b>				
Dead weight of RTU	Wp	1094		
Unit Height(inches)	H	60.0		
Unit Length(inches)	L	89.0		
Unit Width(inches)	w	57.9		
Straight Curb Length(inches)		85.4		
Straight Curb Width (inches)		53.5		
Straight Curb height(inches)		14.0		
Unit CG-X1(inches)		45.4		
Unit CG-X2(inches)		43.6		
Unit CG-Y1(inches)		34.7		
Unit CG-Y2(inches)		23.2		
<b><u>Design wind loads (Ultimate)</u></b>				
Lateral pressure (PSF)	Fh/Af	277.8		
Uplift pressure (PSF)	Fv/Ar	134.4		
Projected Area normal to wind (FT^2)	Af	37.1	long side	
Projected Area normal to wind (FT^2)	Af	24.1	short side	
Projected Area normal to UPLIFT wind (FT^2)	Ar	35.8		
Lateral wind force (LBS)	Fh	10303	long side	
Lateral wind force (LBS)	Fh	6703	short side	
Uplift wind force (LBS)	Fv	4811		
<b><u>Compute wind overturning (Long side)</u></b>				
Dist from pivot pt to applied load (ft)	Hcp	2.50		
Dist from pivot pt to resisting force (ft)	Dmin	4.64		
Dist from pivot pt to RTU CG(ft)	Dcg	2.89		
Overturning moment(Mot)=0.6*Fh*Hcp	Mot	15455	ASCE 7-10	
Resisting Moment(Mres)=Wp*0.6*(Dmin-Dcg)	Mres	1149	ASD load	
<b>Uplift = (Mot-Mres)/Dmin+0.6Fv/2 (LBS)</b>	<b>Uplift</b>	<b>4525</b>	combination,	
<b>Shear = 0.6Fh / 2 sides (LBS)</b>	<b>Shear</b>	<b>3091</b>	0.6D + 0.6W	
<b><u>Compute wind overturning (Short side)</u></b>				
Dist from pivot pt to applied load (ft)	Hcp	2.50		
Dist from pivot pt to resisting force (ft)	Dmin	7.27		
Dist from pivot pt to RTU CG(ft)	Dcg	3.78		
Overturning moment(Mot)=0.6*Fh*Hcp	Mot	10054	ASCE 7-10	
Resisting Moment(Mres)=Wp*0.6*(Dmin-Dcg)	Mres	2286	ASD load	
<b>Uplift = (Mot-Mres)/Dmin+0.6Fv/2 (LBS)</b>	<b>Uplift</b>	<b>2512</b>	combination,	
<b>Shear = 0.6Fh / 2 sides (LBS)</b>	<b>Shear</b>	<b>3091</b>	0.6D + 0.6W	
<b>MODEL NUMBER: <u>6025</u></b>				

<b>CONNECTION DESIGN CHECKS UNIT TO ADAPTER</b>			
<b>Determine min. number of screws (Long side)</b>			
No. screws ea. side, n =	37	screws	
1/4" screw root diameter, d =	0.185	in	
Effective spacing =	2.5	in o.c.	
Tscrew = Shear / n =	83.5	lbs	
Vscrew = Uplift / n =	122.3	lbs	
a (Gap between adapter and unit) =	0.25	in	
b (unit base width) =	2	in	
c=a+b =	2.3	in	
Vmax = Vscrew * c / b =	137.6	lbs	
Mmax = Vscrew x a =	30.6	in-lbs	Screw to go through unit base and web of adapter.
Z = d <sup>3</sup> / 6 =	0.001055	in <sup>3</sup>	
fb = Mmax / Z =	29.0	ksi	
Screw capacity: (per SSMA)	<b>1/4" SMS W/ MIN. 18 Ga.</b>		
	Tallow =	144	lbs
	Vallow =	302	lbs
	Fb = 70ksi / 1.67 =	41.9	ksi <b>SCREW BENDING O.K.</b>
Tscrew / Tallow + Vmax / Vallow =		0.99	< 1.0 ==> O.K.
<b>Determine min. number of screws (Short side)</b>			
No. screws ea. side, n =	30	screws	
Effective spacing =	1.8	in o.c.	
Tscrew = Shear / n =	103.0	lbs	
Vscrew = Uplift / n =	83.7	lbs	
a (Gap between adapter and unit) =	0.25	in	
b (unit base width) =	2	in	
c=a+b =	2.3	in	
Vmax = Vscrew * c / b =	94.2	lbs	
Mmax = Vscrew x a =	20.9	in-lbs	Screw to go through unit base and web of adapter.
Z = d <sup>3</sup> / 6 =	0.001055	in <sup>3</sup>	
fb = Mmax / Z =	19.8	ksi	
Screw capacity: (per SSMA)	<b>1/4" SMS W/ MIN. 18 Ga.</b>		
	Tallow =	144	lbs
	Vallow =	302	lbs
	Fb = 70ksi / 1.67 =	41.9	ksi <b>SCREW BENDING O.K.</b>
Tscrew / Tallow + Vmax / Vallow =		0.99	< 1.0 ==> O.K.





The new degree of comfort.™

## Commercial® 7.5-12.5 Ton Renaissance™ Line Package Air Conditioner



### **RACDZT Commercial Prestige® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Standard VFD and optional HumidiDry™ Technology  
ASHRAE 90.1-2013 Compliant Models

### **RACDZS Commercial Classic Plus® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Optional VFD and HumidiDry™ Technology  
ASHRAE 90.1-2010 Compliant Models  
ASHRAE 90.1-2013 Compliant Models

### **RACDZR Commercial Classic® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
ASHRAE 90.1-2010 Compliant Models





**R** **AC** **D** **ZT** **090** **A** **C** **A** **15** **2** **A** **A** **\*\*\***  
**1** **23** **4** **56** **789** **10** **11** **12** **13 14** **15** **16** **17** **18 19 20**

**1—Brand**

R = Rheem

**2, 3—Unit Type**

AC = Package AC

**4—Cabinet Type**

D = Small Commercial

**5, 6—Series**

ZT<sup>1</sup> = Tier 1 (*Commercial Prestige® Series*)

ZS<sup>2</sup> = Tier 2 (*Commercial Classic Plus® Series*)

ZR<sup>3</sup> = Tier 3 (*Commercial Classic® Series*)

**7, 8, 9—Capacity**

090 = 7.5 ton

102 = 8.5 ton

120 = 10 ton

150 = 12.5 ton<sup>4</sup>

**10—Major series**

A

**11—Voltage**

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phase 575/60

**12—Drive**

A = belt low static

B = belt med static

C = belt high static

F = belt VFD low static

G = belt VFD med static

H = belt VFD high static

**13, 14—Heat Capacity**

00 = No Heat

10 = 10kw

15 = 15kw

20 = 20kw

30 = 30kw

40 = 40kw

**15—Number of stages**

0 = no stages

1 = 1 stage

2 = 2 stage

**16—Control**

A = Non communicating

B = Comfort Alert/Phase Monitor

C = Clear Control

D = Clear Control & Comfort Alert

**17—Minor series**

A

**18, 19, 20—Option Code**

See next page

Notes:

1. ZT – can only select VFD drives (F, G, H) in character 12
2. ZS – can select any of the drive options in character 12
3. ZR – can only select standard drives (A, B, C) in character 12
4. ZR – not available for 12.5 ton models



## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RACDZR Series	ZR090	ZR102	ZR120
<b>Cooling Performance<sup>1</sup></b>			
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]
EER/SEER <sup>2</sup>	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]
EER <sup>3</sup>	12.9	12.9	12.9
Net System Power kW	7.53	8.51	9.86
<b>Compressor</b>			
No./Type	1/Scroll	1/Scroll	1/Scroll
No. Stages	1	1	1
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>			
	88	88	88
<b>Outdoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>			
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP
	820	820	1075
<b>Indoor Fan - Type</b>			
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single
Motor RPM	1	1	1
Motor Frame Size	1725	1725	1725
	56	56	56
<b>Filter - Type</b>			
Furnished	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>			
	100 [2835]	117 [3317]	136 [3856]
<b>Weights</b>			
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]

See Page 19 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RACDZS Series	ZS090	ZS102	ZS120	ZS150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3200 [1416/1510]	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 <sup>3</sup>	12.9	12.9	12.9	12.4
Net System Power kW	7.35	8.46	9.83	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
	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]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
<b>Refrigerant Charge Oz. [g]</b>				
	100 [2835]	117 [3317]	136 [3856]	186 [5273]
<b>Weights</b>				
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]	993 [450]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]	1032 [468]

See Page 19 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2013 COMPLIANT MODELS

Model RACDZT Series	ZT090	ZT102	ZT120	ZT150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11.2/NA	11.2/NA	11.2/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3200 [1416/1510]	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 <sup>3</sup>	14.8	14.8	14.8	14.2
Net System Power kW	7.35	8.46	10.49	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	2 / 18 [7]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.5 [12.7]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
<b>Refrigerant Charge Oz. [g]</b>				
	100 [2835]	117 [3317]	136 [3856]	186 [5273]
<b>Weights</b>				
Net Weight lbs. [kg]	736 [334]	762 [346]	791 [359]	993 [450]
Ship Weight lbs. [kg]	775 [352]	801 [363]	830 [376]	1032 [468]

See Page 19 for Notes.

[ ] Designates Metric Conversions

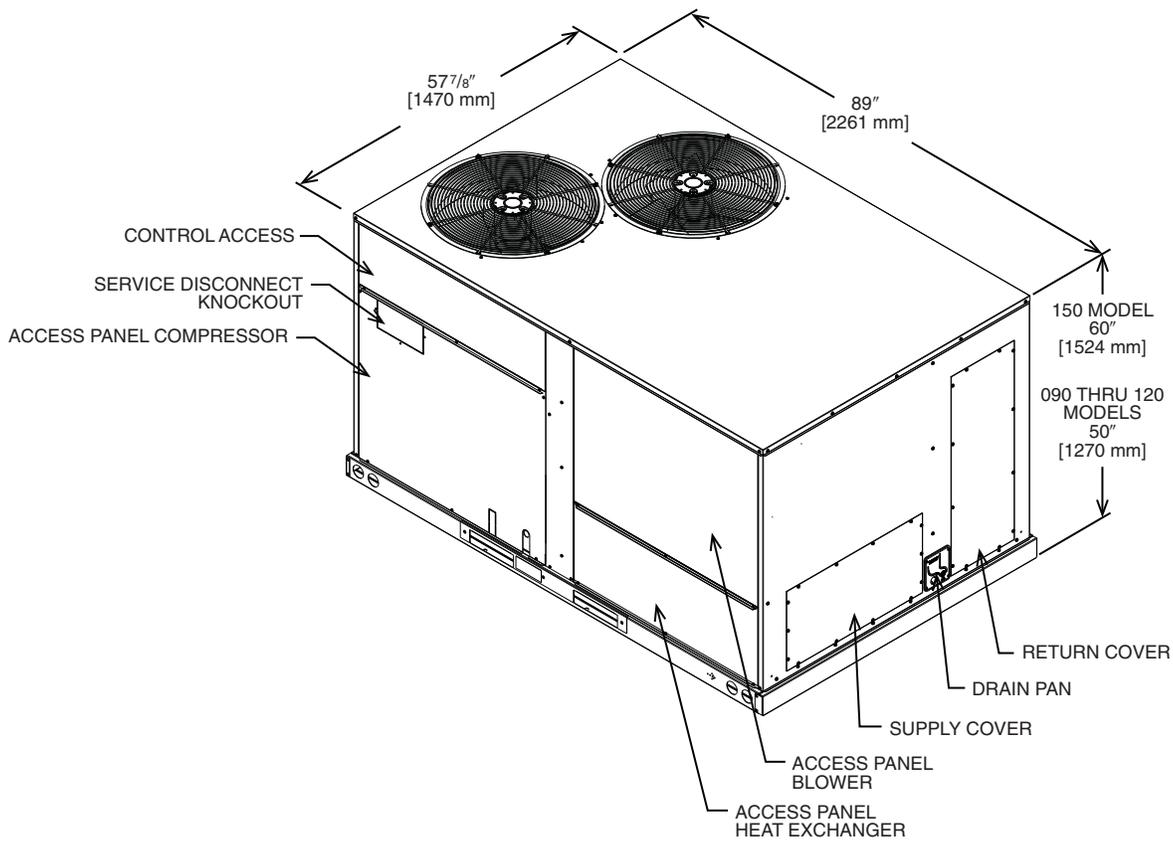


Illustration ST-A1273-26-00

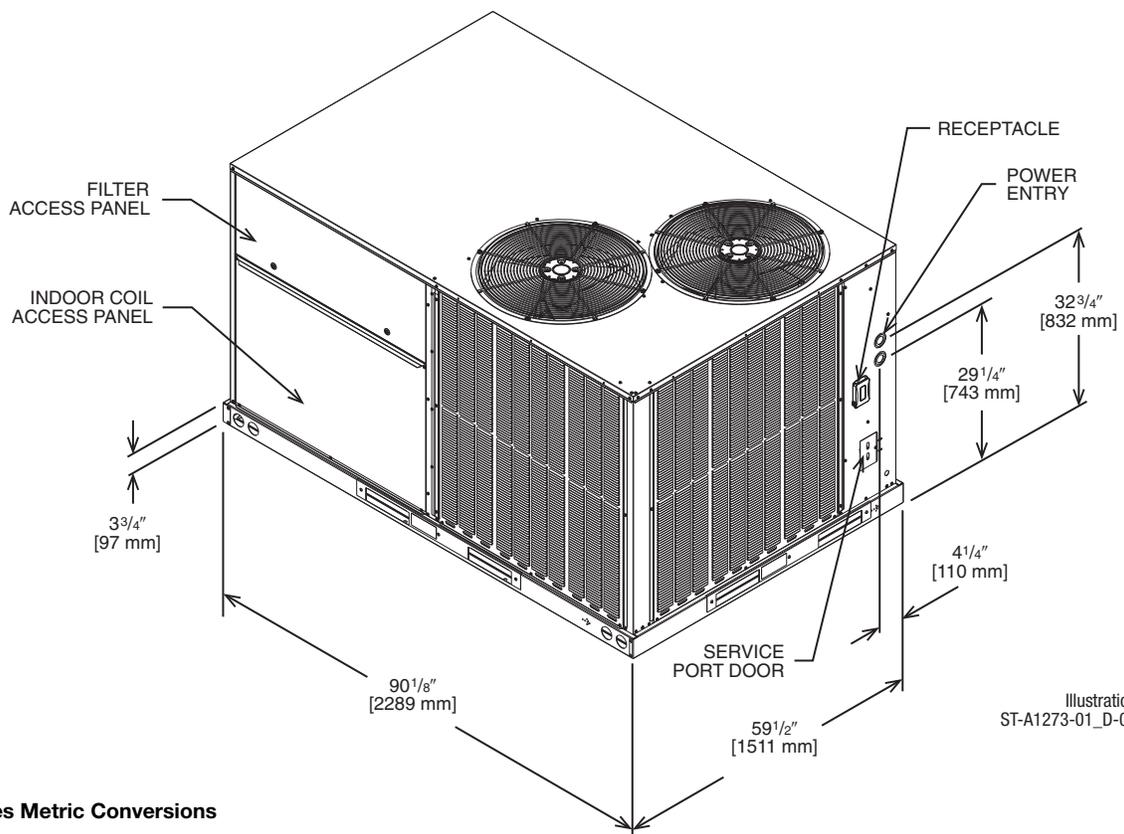


Illustration ST-A1273-01\_D-00

[ ] Designates Metric Conversions



The new degree of comfort.™

## **Commercial Renaissance™ Line Package Gas Electric Units**



### **RGEDZT Commercial Prestige® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Standard VFD and optional HumidiDry™ Technology  
ASHRAE 90.1-2013 Compliant Models

### **RGEDZS Commercial Classic Plus® Series**

Nominal Sizes 7.5, 8.5, 10 & 12.5 Tons  
Optional VFD and HumidiDry™ Technology  
ASHRAE 90.1-2010 Compliant Models  
ASHRAE 90.1-2013 Compliant Models

### **RGEDZR Commercial Classic® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
ASHRAE 90.1-2010 Compliant Models





**R** **GE** **D** **ZT** **090** **A** **C** **A** **15** **2** **A** **A** **\*\*\***  
**1** **23** **4** **56** **789** **10** **11** **12** **13 14** **15** **16** **17** **18 19 20**

**1 – Brand**

R = Rheem

**2, 3 – Unit Type**

GE = Package Gas Electric

**4 – Cabinet Type**

D = Small Commercial

**5, 6 – Series**

ZT<sup>1</sup> = Tier 1 (*Commercial Prestige® Series*)

ZS<sup>2</sup> = Tier 2 (*Commercial Classic Plus® Series*)

ZR<sup>3</sup> = Tier 3 (*Commercial Classic® Series*)

**7, 8, 9 – Capacity**

090 = 7.5 ton

102 = 8.5 ton

120 = 10 ton

150 = 12.5 ton<sup>4</sup>

**10 – Major series**

A

**11 – Voltage**

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phase 575/60

**12 – Drive**

A = belt low static

B = belt med static

C = belt high static

F = belt VFD low static

G = belt VFD med static

H = belt VFD high static

**13, 14 – Heat Capacity**

15 = 150k

20 = 205k<sup>5</sup>

22 = 225k<sup>6</sup>

**15 – Heat Configuration**

2 = 2 stage

B = 2 stage Stainless

**16 – Control**

A = Non communicating

B = Comfort Alert/Phase Monitor

C = Clear Control

D = Clear Control & Comfort Alert

**17 – Minor series**

A

**18, 19, 20 – Option Code**

See page 14

Notes:

1. ZT Series – can only select VFD drives (F, G, H) in character 12
2. ZS Series – can select any of the drive options in character 12
3. ZR Series – can only select standard drives (A, B, C) in character 12
4. ZR Series not available for 12.5 ton models
5. 205k heat capacity can only be selected for 7.5 ton models
6. 225k heat capacity can only be selected for 8.5 to 12.5 ton models



## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RGEDZR - Series	ZR090	ZR102	ZR120
<b>Cooling Performance<sup>1</sup></b>			
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/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 <sup>3</sup>	12.7	12.7	12.7
Net System Power kW	7.53	8.51	9.86
<b>Compressor</b>			
No./Type	1/Scroll	1/Scroll	1/Scroll
No. Stages	1	1	1
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>			
	88	88	88
<b>Outdoor Coil - Fin Type</b>			
	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]
<b>Indoor Coil - Fin Type</b>			
	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]
<b>Outdoor Fan - Type</b>			
	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
<b>Indoor Fan - Type</b>			
	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
<b>Filter - Type</b>			
	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]
<b>Refrigerant Charge Oz. [g]</b>			
	100 [2835]	117 [3317]	136 [3856]
<b>Weights</b>			
Net Weight lbs. [kg]	839 [381]	868 [394]	896 [406]
Ship Weight lbs. [kg]	878 [398]	907 [411]	935 [424]

See Page 19 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2010 COMPLIANT MODELS

Model RGEDZS - Series	ZS090	ZS102	ZS120A	ZS150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/3750 [2360/1770]
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 <sup>3</sup>	12.7	12.7	12.7	12.2
Net System Power kW	7.35	7.35	9.83	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
	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]
<b>Indoor Coil - Fin Type</b>				
	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]
<b>Outdoor Fan - Type</b>				
	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
<b>Indoor Fan - Type</b>				
	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
<b>Filter - Type</b>				
	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]
<b>Refrigerant Charge Oz. [g]</b>				
	100 [2835]	117 [3317]	136 [3856]	186 [5273]
<b>Weights</b>				
Net Weight lbs. [kg]	839 [381]	868 [394]	896 [406]	1094 [496]
Ship Weight lbs. [kg]	878 [398]	907 [411]	935 [424]	1133 [514]

See Page 19 for Notes.

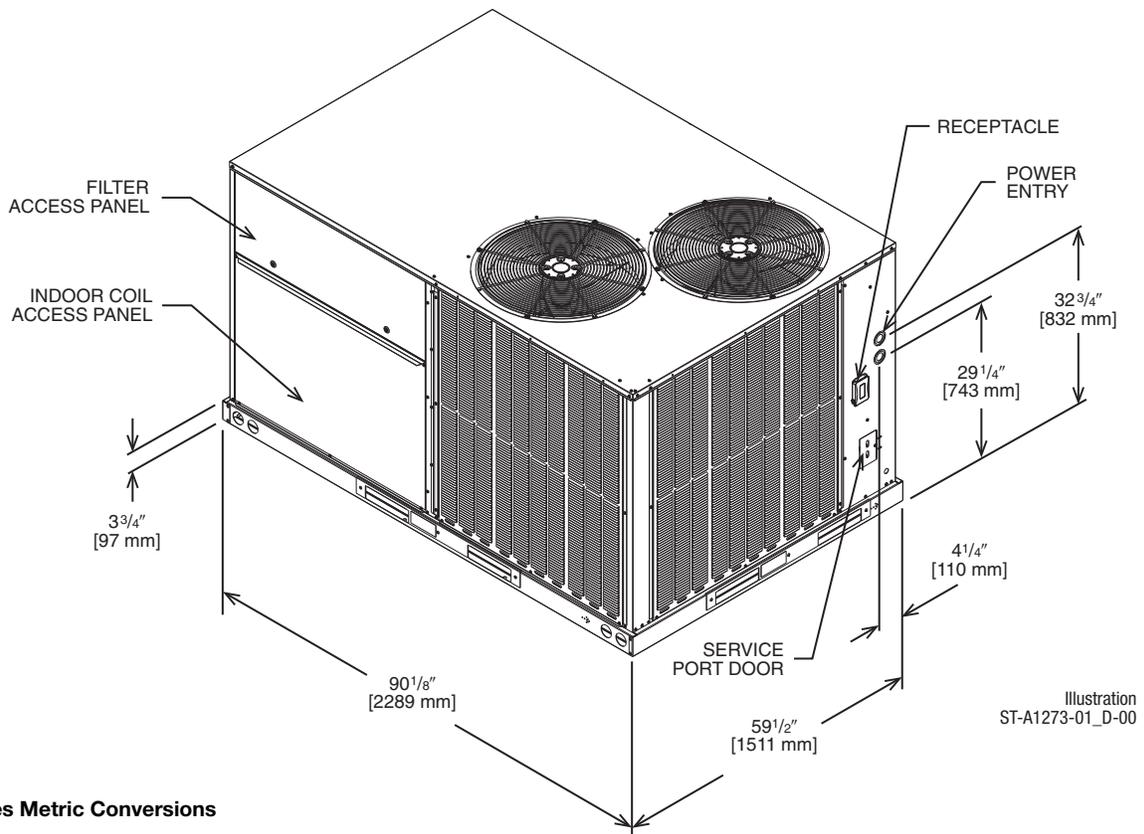
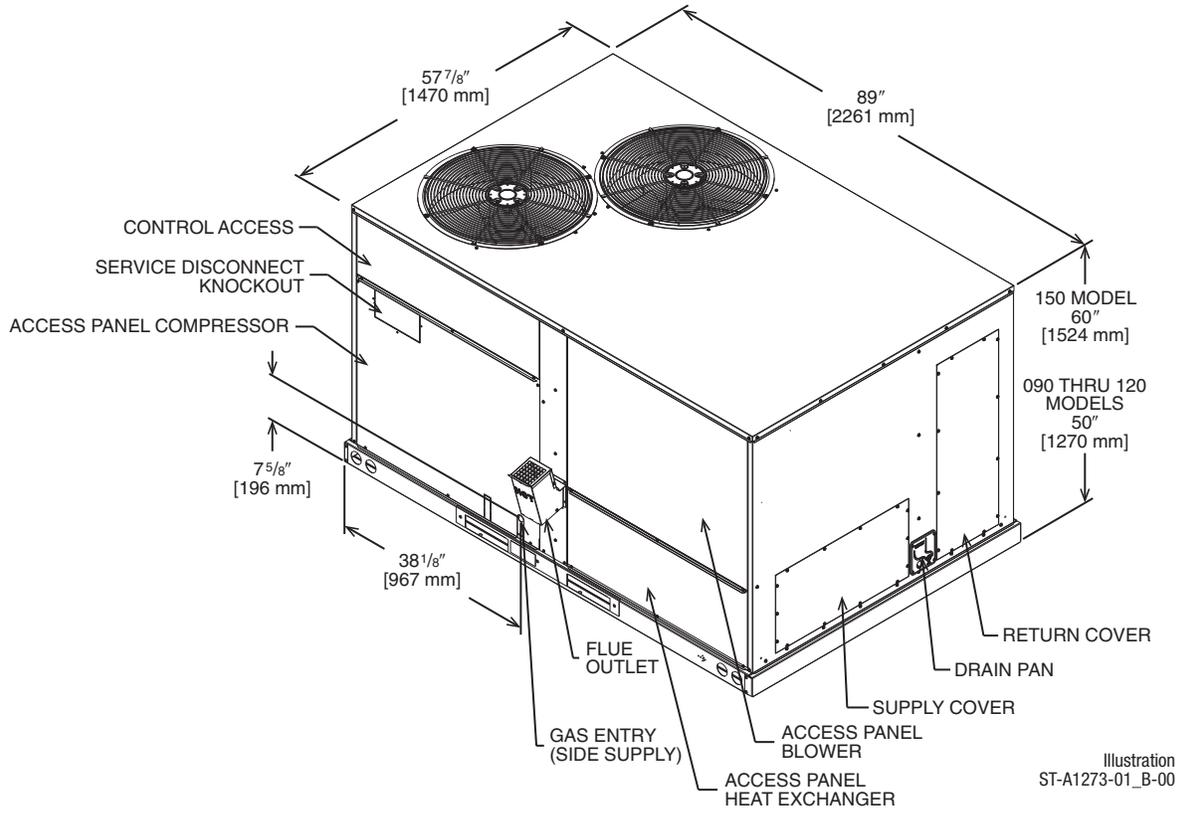
[ ] Designates Metric Conversions

## NOM. SIZES 7.5-12.5 TONS [26.4-44.0 kW] ASHRAE 90.1-2013 COMPLIANT MODELS

Model RGEDZT - Series	ZT090	ZT102	ZT120	ZT150
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	88,000 [25.78]	99,000 [29.01]	118,000 [34.57]	148,000 [43.36]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	10.8/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3175 [1416/1498]	3400/3225 [1604/1522]	4000/3480 [1888/1642]	5000/3750 [2360/1770]
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 <sup>3</sup>	14.6	14.6	14.6	14
Net System Power kW	7.35	7.35	9.83	13.69
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	2/Tandem Scroll
No. Stages	2	2	2	2
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	0.71 [18]	0.81 [20.6]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	25.4 [2.36]	25.6 [2.38]	25.6 [2.38]	31.5 [2.93]
	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]	1 / 23 [9]
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1 [25.4]
Rows / FPI [FPcm]	11 [1.02]	10.9 [1.01]	10.9 [1.01]	13.8 [1.28]
	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]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8500 [4011]	9000 [4247]
Motor RPM	2 at 1/5 HP	2 at 1/5 HP	2 at 1/3 HP	2 at 3/4 HP
	820	820	1075	1100
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor RPM	1	1	1	1
Motor Frame Size	1725	1725	1725	1725
	56	56	56	184
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x25 [51x508x635]
<b>Refrigerant Charge Oz. [g]</b>				
	117 [3317]	136 [3856]	186 [5273]	
<b>Weights</b>				
Net Weight lbs. [kg]	839 [381]	868 [394]	896 [406]	1094 [496]
Ship Weight lbs. [kg]	878 [398]	907 [411]	935 [424]	1133 [514]

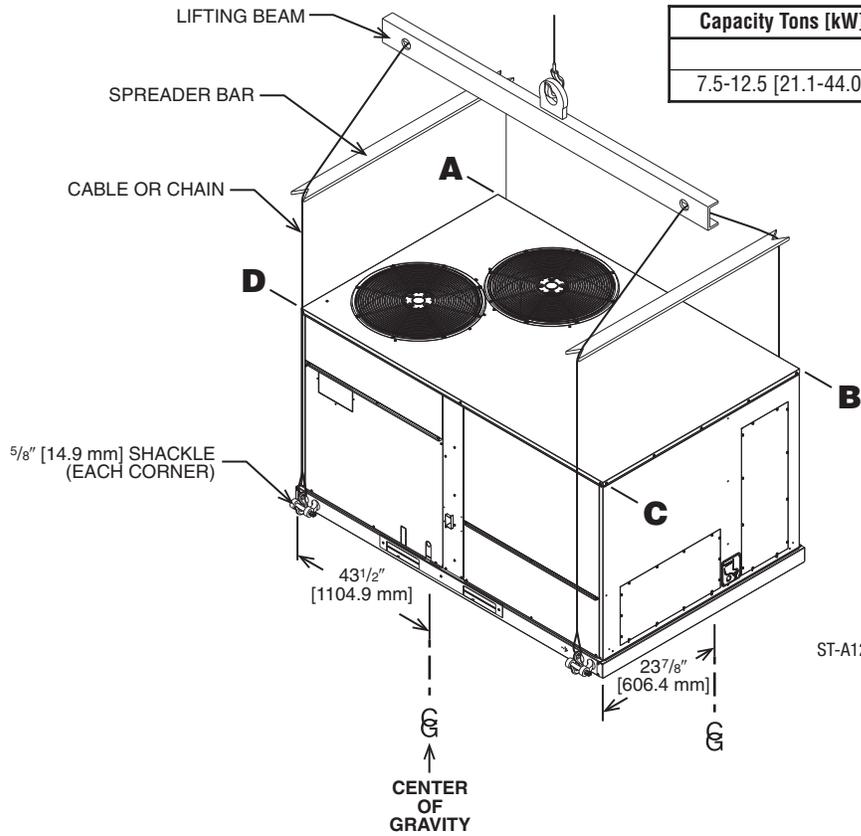
See Page 19 for Notes.

[ ] Designates Metric Conversions



[ ] Designates Metric Conversions

# WEIGHTS



Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5-12.5 [21.1-44.0]	26%	34%	17%	23%

Illustration  
ST-A1273-01\_J-00

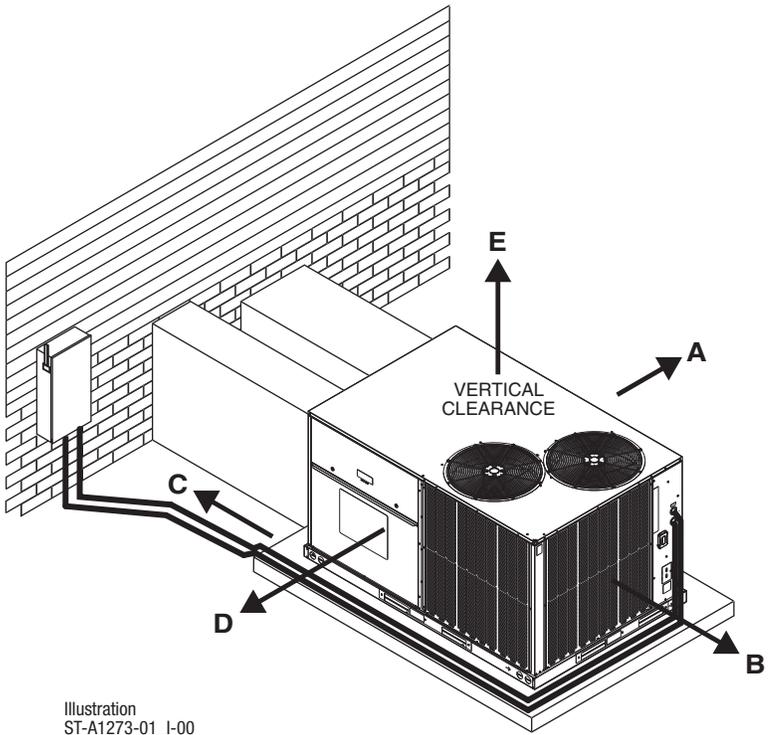


Illustration  
ST-A1273-01\_I-00

### CLEARANCES

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

RECOMMENDED CLEARANCE In. [mm]	LOCATION
48 [1219]	A - FRONT
24 [609]	B - CONDENSER END
48 [1219] ①	C - DUCT END
24 [609] ②	D - FILTER SIDE
60 [1524]	E - ABOVE

① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.  
② 48" [1219 MM] MINIMUM IF ECONOMIZER IS INSTALLED.

[ ] Designates Metric Conversions



The new degree of comfort.™

## Commercial 7.5-10 Ton Renaissance™ Line Package Heat Pump



### **RHPDZT Commercial Prestige® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
Standard VFD Technology  
ASHRAE 90.1-2013 Compliant Models

### **RHPDZS Commercial Classic Plus® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
Optional VFD Technology  
ASHRAE 90.1-2007 Compliant Models  
ASHRAE 90.1-2013 Compliant Models

### **RHPDZR Commercial Classic® Series**

Nominal Sizes 7.5, 8.5 & 10 Tons  
ASHRAE 90.1-2007 Compliant Models



<b>R</b>	<b>HP</b>	<b>D</b>	<b>ZT</b>	<b>090</b>	<b>A</b>	<b>C</b>	<b>F</b>	<b>15</b>	<b>2</b>	<b>A</b>	<b>B</b>	<b>***</b>
<b>1</b>	<b>23</b>	<b>4</b>	<b>56</b>	<b>789</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13 14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18 19 20</b>

**1 – Brand**

R = Rheem

**2, 3 – Unit Type**

HP = Package Heat Pump

**4 – Cabinet Type**

D = Medium Commercial

**5, 6 – Series**

 ZT<sup>1</sup> = Tier 1 (*Commercial Prestige® Series*)

 ZS<sup>2</sup> = Tier 2 (*Commercial Classic Plus® Series*)

 ZR<sup>3</sup> = Tier 3 (*Commercial Classic® Series*)

**7, 8, 9 – Capacity**

090 = 7.5 ton

102 = 8.5 ton

120 = 10 ton

**10 – Major series**

A

**11 – Voltage**

C = 3 phase 208-230/60

D = 3 phase 460/60

Y = 3 phase 575/60

**12 – Drive**

A = belt low static

B = belt med static

C = belt high static

F = belt VFD low static

G = belt VFD med static

H = belt VFD high static

**13, 14 – Heat Capacity**

00 = No Heat

10 = 10kw

15 = 15kw

20 = 20kw

30 = 30kw

40 = 40kw

**15 – Number of stages**

0 = no stages

1 = 1 stage

2 = 2 stage

**16 – Control**

A = Non communicating

B = Comfort Alert/Phase Monitor

C = Clear Control

D = Clear Control &amp; Comfort Alert

**17 – Minor series**

B

**18, 19, 20 – Option Code**

See next page

**Notes:**

1. ZT – can only select VFD drives (F, G, H) in character 12
2. ZS – can select any of the drive options in character 12
3. ZR – can only select standard drives (A, B, C) in character 12

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	090ACA	090ACB	090ACC	090ADA
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	2	3	3	2
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	775 [352]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	814 [369]	825 [374]	814 [369]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	090ADB	090ADC	090AYA	090AYB
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	775 [352]	775 [352]	785 [356]
Ship Weight lbs. [kg]	814 [369]	814 [369]	814 [369]	824 [374]

See Page 38 for Notes.

[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	090AYC	102ACA	102ACB	102ACC
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	23,200 [6.8]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	6.84/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	6.44/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.8 [2.12]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	2	3	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	786 [357]	811 [368]	811 [368]	822 [373]
Ship Weight lbs. [kg]	825 [374]	850 [386]	850 [386]	861 [391]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	102ADA	102ADB	102ADC	102AYA
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	811 [368]	821 [372]	822 [373]	811 [368]
Ship Weight lbs. [kg]	850 [386]	860 [390]	861 [391]	850 [386]

See Page 38 for Notes.

[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	102AYB	102AYC	120ACA	120ACB
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	7.99/3.3	7.99/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	7.54/2.3	7.54/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.4 [2.08]	22.4 [2.08]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	197 [5585]	197 [5585]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	821 [372]	822 [373]	863 [391]	863 [391]
Ship Weight lbs. [kg]	860 [390]	861 [391]	902 [409]	902 [409]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	120ACC	120ADA	120ADB	120ADC
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED →</b>
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	2	3	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	874 [396]	863 [391]	863 [391]	874 [396]
Ship Weight lbs. [kg]	913 [414]	902 [409]	902 [409]	913 [414]

See Page 38 for Notes.

[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZR Series	120AYA	120AYB	120AYC
<b>Cooling Performance<sup>1</sup></b>			
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>			
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>			
No./Type	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>			
	88	88	88
<b>Outdoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>			
Tube Type	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
	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]
<b>Outdoor Fan - Type</b>			
Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1075	1075	1075
<b>Indoor Fan - Type</b>			
FC Centrifugal	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 HP	2	3	3
Motor RPM	1725	1725	1725
Motor Frame Size	56	56	56
<b>Filter - Type</b>			
Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>			
	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>			
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	090ACA	090ACB	090ACC	090ACF
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	814 [369]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	090ACG	090ACH	090ADA	090ADB
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Rows / FPI [FPcm]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	785 [356]	786 [357]	775 [352]	785 [356]
Ship Weight lbs. [kg]	824 [374]	825 [374]	814 [369]	824 [374]

**CONTINUED** →

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	090ADC	090ADF	090ADG	090ADH
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	6.84/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	786 [357]	775 [352]	785 [356]	786 [357]
Ship Weight lbs. [kg]	825 [374]	814 [369]	824 [374]	825 [374]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	090AYA	090AYB	090AYC	102ACA
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	71,000 [20.8]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	7.55	7.55	7.55	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	98,000 [28.71]
System Power KW / COP	6.84/3.3	6.84/3.3	6.84/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	60,000 [17.58]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1.26 [32]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	811 [368]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	850 [386]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	102ACB	102ACC	102ACF	102ACG
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	3	2	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	821 [372]	822 [373]	811 [368]	821 [372]
Ship Weight lbs. [kg]	860 [390]	861 [391]	850 [386]	860 [390]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	102ACH	102ADA	102ADB	102ADC
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	2	3	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	822 [373]	811 [368]	821 [372]	822 [373]
Ship Weight lbs. [kg]	861 [391]	850 [386]	860 [390]	861 [391]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	102ADF	102ADG	102ADH	102AYA
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.3	7.99/3.3	7.99/3.3	7.99/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	811 [368]	821 [372]	822 [373]	811 [368]
Ship Weight lbs. [kg]	850 [386]	860 [390]	861 [391]	850 [386]

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[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	102AYB	102AYC	120ACA	120ACB
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	8.47	8.47	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	7.99/3.3	7.99/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	7.54/2.3	7.54/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.4 [2.08]	22.4 [2.08]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	197 [5585]	197 [5585]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	821 [372]	822 [373]	863 [391]	873 [396]
Ship Weight lbs. [kg]	860 [390]	861 [391]	902 [409]	912 [414]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	120ACC	120ACF	120ACG	120ACH
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	2	3	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	874 [396]	863 [391]	873 [396]	874 [396]
Ship Weight lbs. [kg]	913 [414]	902 [409]	912 [414]	913 [414]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	120ADA	120ADB	120ADC	120ADF
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	2	3	3	2
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]	863 [391]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]	902 [409]

**CONTINUED** 

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	120ADG	120ADH	120AYA	120AYB
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	12.2	12.2	12.2	12.2
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.3	9.03/3.3	9.03/3.3	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	0.26 [6.6]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	873 [396]	874 [396]	863 [391]	873 [396]
Ship Weight lbs. [kg]	912 [414]	913 [414]	902 [409]	912 [414]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZS Series	120AYC
<b>Cooling Performance<sup>1</sup></b>	
Gross Cooling Capacity Btu [kW]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]
IEER <sup>3</sup>	12.2
Net System Power kW	10.13
<b>Heating Performance (Heat Pumps)</b>	
High Temp. Btuh [kW] Rating	114,000 [33.4]
System Power KW / COP	9.03/3.3
Low Temp. Btuh [kW] Rating	72,000 [21.1]
System Power KW / COP	8.3/2.3
<b>Compressor</b>	
No./Type	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	
88	
<b>Outdoor Coil - Fin Type</b>	
Louvered	
Tube Type	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]
Refrigerant Control	TX Valves
<b>Indoor Coil - Fin Type</b>	
Louvered	
Tube Type	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]
Refrigerant Control	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	
Propeller	
No. Used/Diameter in. [mm]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1
CFM [L/s]	8000 [3775]
No. Motors/HP	2 at 1/2 HP
Motor RPM	1075
<b>Indoor Fan - Type</b>	
FC Centrifugal	
No. Used/Diameter in. [mm]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)
No. Speeds	Single
No. Motors	1
Motor HP	3
Motor RPM	1725
Motor Frame Size	56
<b>Filter - Type</b>	
Disposable	
Furnished	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>	
213 [6039]	
<b>Weights</b>	
Net Weight lbs. [kg]	874 [396]
Ship Weight lbs. [kg]	913 [414]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	090ACF	090ACG	090ACH	090ADF
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]	89,000 [26.08]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3000/3030 [1416/1430]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]	62,800 [18.4]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]	23,200 [6.8]
IEER <sup>3</sup>	14.1	14.1	14.1	14.1
Net System Power kW	7.55	7.55	7.55	7.55
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]	86,000 [25.2]
System Power KW / COP	6.84/3.4	6.84/3.4	6.84/3.4	6.84/3.4
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]	48,000 [14.06]
System Power KW / COP	6.44/2.3	6.44/2.3	6.44/2.3	6.44/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Face Area sq. ft. [sq. m]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]	22.8 [2.12]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	2	3	3	2
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	179 [5075]	179 [5075]	179 [5075]	179 [5075]
<b>Weights</b>				
Net Weight lbs. [kg]	775 [352]	785 [356]	786 [357]	775 [352]
Ship Weight lbs. [kg]	814 [369]	824 [374]	825 [374]	814 [369]

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[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	090ADG	090ADH	102ACF	102ACG
<b>Cooling Performance<sup>1</sup></b>				
Gross Cooling Capacity Btu [kW]	89,000 [26.08]	89,000 [26.08]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3000/3030 [1416/1430]	3000/3030 [1416/1430]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	86,000 [25.2]	86,000 [25.2]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	62,800 [18.4]	62,800 [18.4]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	23,200 [6.8]	23,200 [6.8]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	14.1	14.1	14.1	14.1
Net System Power kW	7.55	7.55	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	86,000 [25.2]	86,000 [25.2]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	6.84/3.4	6.84/3.4	7.99/3.4	7.99/3.4
Low Temp. Btuh [kW] Rating	48,000 [14.06]	48,000 [14.06]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	6.44/2.3	6.44/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1 [25.4]	1 [25.4]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	22.8 [2.12]	22.8 [2.12]	22.4 [2.08]	22.4 [2.08]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	3	3	2	3
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>				
	179 [5075]	179 [5075]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	785 [356]	786 [357]	811 [368]	821 [372]
Ship Weight lbs. [kg]	824 [374]	825 [374]	850 [386]	860 [390]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	102ACH	102ADF	102ADG	102ADH
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]	101,000 [29.59]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]	3400/3345 [1604/1579]
AHRI Net Cooling Capacity Btu [kW]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
Net Sensible Capacity Btu [kW]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]	71,000 [20.8]
Net Latent Capacity Btu [kW]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]	27,000 [7.91]
IEER <sup>3</sup>	14.1	14.1	14.1	14.1
Net System Power kW	8.47	8.47	8.47	8.47
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]	98,000 [28.71]
System Power KW / COP	7.99/3.4	7.99/3.4	7.99/3.4	7.99/3.4
Low Temp. Btuh [kW] Rating	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]	60,000 [17.58]
System Power KW / COP	7.54/2.3	7.54/2.3	7.54/2.3	7.54/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>	88	88	88	88
<b>Outdoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]	22.4 [2.08]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	MicroChannel	MicroChannel	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]	10.9 [1.01]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP			
Motor RPM	1075	1075	1075	1075
<b>Indoor Fan - Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single	Single	Single
No. Motors	1	1	1	1
Motor HP	3	2	3	3
Motor RPM	1725	1725	1725	1725
Motor Frame Size	56	56	56	56
<b>Filter - Type</b>	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]	(4)2x20x20 [51x508x508]
<b>Refrigerant Charge Oz. [g]</b>	197 [5585]	197 [5585]	197 [5585]	197 [5585]
<b>Weights</b>				
Net Weight lbs. [kg]	822 [373]	811 [368]	821 [372]	822 [373]
Ship Weight lbs. [kg]	861 [391]	850 [386]	860 [390]	861 [391]

See Page 38 for Notes.

[ ] Designates Metric Conversions



## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	120ACF	120ACG	120ACH	120ADF
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	14.1	14.1	14.1	14.1
Net System Power kW	10.13	10.13	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>				
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.4	9.03/3.4	9.03/3.4	9.03/3.4
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3	8.3/2.3	8.3/2.3
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>				
	88	88	88	88
<b>Outdoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]	28.8 [2.68]
Refrigerant Control	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]	1 / 16 [6]
	TX Valves	TX Valves	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>				
Tube Type	Louvered	Louvered	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel	MicroChannel	MicroChannel
Face Area sq. ft. [sq. m]	1.26 [32]	1.26 [32]	1.26 [32]	1.26 [32]
Rows / FPI [FPcm]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]	13.2 [1.23]
Refrigerant Control	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]	1 / 20 [8]
Drain Connection No./Size in. [mm]	TX Valves	TX Valves	TX Valves	TX Valves
	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>				
No. Used/Diameter in. [mm]	Propeller	Propeller	Propeller	Propeller
Drive Type/No. Speeds	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
CFM [L/s]	Direct/1	Direct/1	Direct/1	Direct/1
No. Motors/HP	8000 [3775]	8000 [3775]	8000 [3775]	8000 [3775]
Motor RPM	2 at 1/2 HP			
	1075	1075	1075	1075
<b>Indoor Fan - Type</b>				
No. Used/Diameter in. [mm]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Drive Type	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]	1/15x15 [381x381]
No. Speeds	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Motors	Single	Single	Single	Single
Motor HP	1	1	1	1
Motor RPM	2	3	3	2
Motor Frame Size	1725	1725	1725	1725
	56	56	56	56
<b>Filter - Type</b>				
Furnished	Disposable	Disposable	Disposable	Disposable
(NO.) Size Recommended in. [mm x mm x mm]	Yes	Yes	Yes	Yes
	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>				
	213 [6039]	213 [6039]	213 [6039]	213 [6039]
<b>Weights</b>				
Net Weight lbs. [kg]	863 [391]	873 [396]	874 [396]	863 [391]
Ship Weight lbs. [kg]	902 [409]	912 [414]	913 [414]	902 [409]

See Page 38 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 7.5-10 TONS [26.4-35.1 kW] ASHRAE 90.1-2007 COMPLIANT MODELS

Model RHPDZT Series	120ADG	120ADH
<b>Cooling Performance<sup>1</sup></b>		
Gross Cooling Capacity Btu [kW]	119,000 [34.87]	119,000 [34.87]
EER/SEER <sup>2</sup>	11/NA	11/NA
Nominal CFM/AHRI Rated CFM [L/s]	4000/4060 [1888/1916]	4000/4060 [1888/1916]
AHRI Net Cooling Capacity Btu [kW]	114,000 [33.4]	114,000 [33.4]
Net Sensible Capacity Btu [kW]	82,800 [24.26]	82,800 [24.26]
Net Latent Capacity Btu [kW]	31,200 [9.14]	31,200 [9.14]
IEER <sup>3</sup>	14.1	14.1
Net System Power kW	10.13	10.13
<b>Heating Performance (Heat Pumps)</b>		
High Temp. Btuh [kW] Rating	114,000 [33.4]	114,000 [33.4]
System Power KW / COP	9.03/3.4	9.03/3.4
Low Temp. Btuh [kW] Rating	72,000 [21.1]	72,000 [21.1]
System Power KW / COP	8.3/2.3	8.3/2.3
<b>Compressor</b>		
No./Type	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>4</sup></b>		
	88	88
<b>Outdoor Coil - Fin Type</b>		
Tube Type	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	28.8 [2.68]	28.8 [2.68]
Rows / FPI [FPcm]	1 / 16 [6]	1 / 16 [6]
Refrigerant Control	TX Valves	TX Valves
<b>Indoor Coil - Fin Type</b>		
Tube Type	Louvered	Louvered
MicroChannel Depth in. [mm]	MicroChannel	MicroChannel
MicroChannel Depth in. [mm]	1.26 [32]	1.26 [32]
Face Area sq. ft. [sq. m]	13.2 [1.23]	13.2 [1.23]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 20 [8]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]
<b>Outdoor Fan - Type</b>		
	Propeller	Propeller
No. Used/Diameter in. [mm]	2/24 [609.6]	2/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]
No. Motors/HP	2 at 1/2 HP	2 at 1/2 HP
Motor RPM	1075	1075
<b>Indoor Fan - Type</b>		
	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/15x15 [381x381]	1/15x15 [381x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)
No. Speeds	Single	Single
No. Motors	1	1
Motor HP	3	3
Motor RPM	1725	1725
Motor Frame Size	56	56
<b>Filter - Type</b>		
	Disposable	Disposable
Furnished	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(4)2x25x20 [51x635x508]	(4)2x25x20 [51x635x508]
<b>Refrigerant Charge Oz. [g]</b>		
	213 [6039]	213 [6039]
<b>Weights</b>		
Net Weight lbs. [kg]	873 [396]	874 [396]
Ship Weight lbs. [kg]	912 [414]	913 [414]

See Page 38 for Notes.

[ ] Designates Metric Conversions

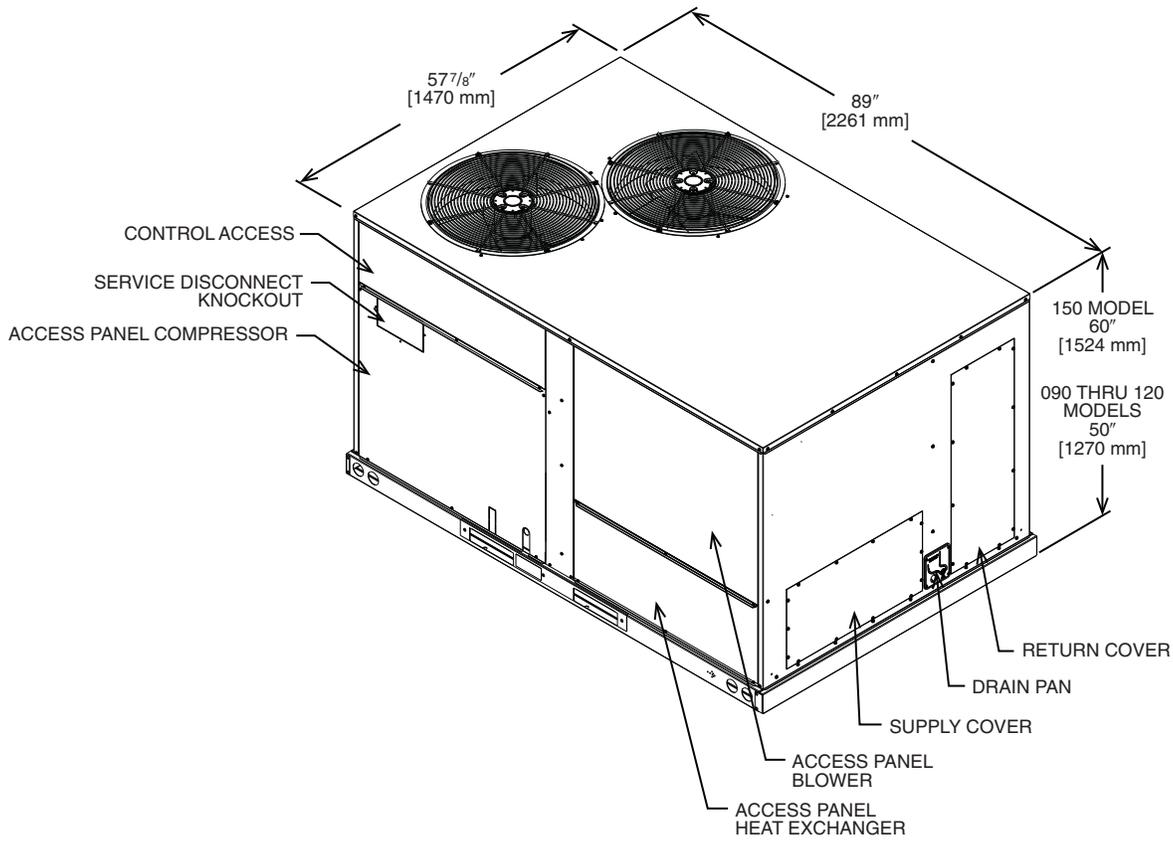


Illustration  
ST-A1273-26-00

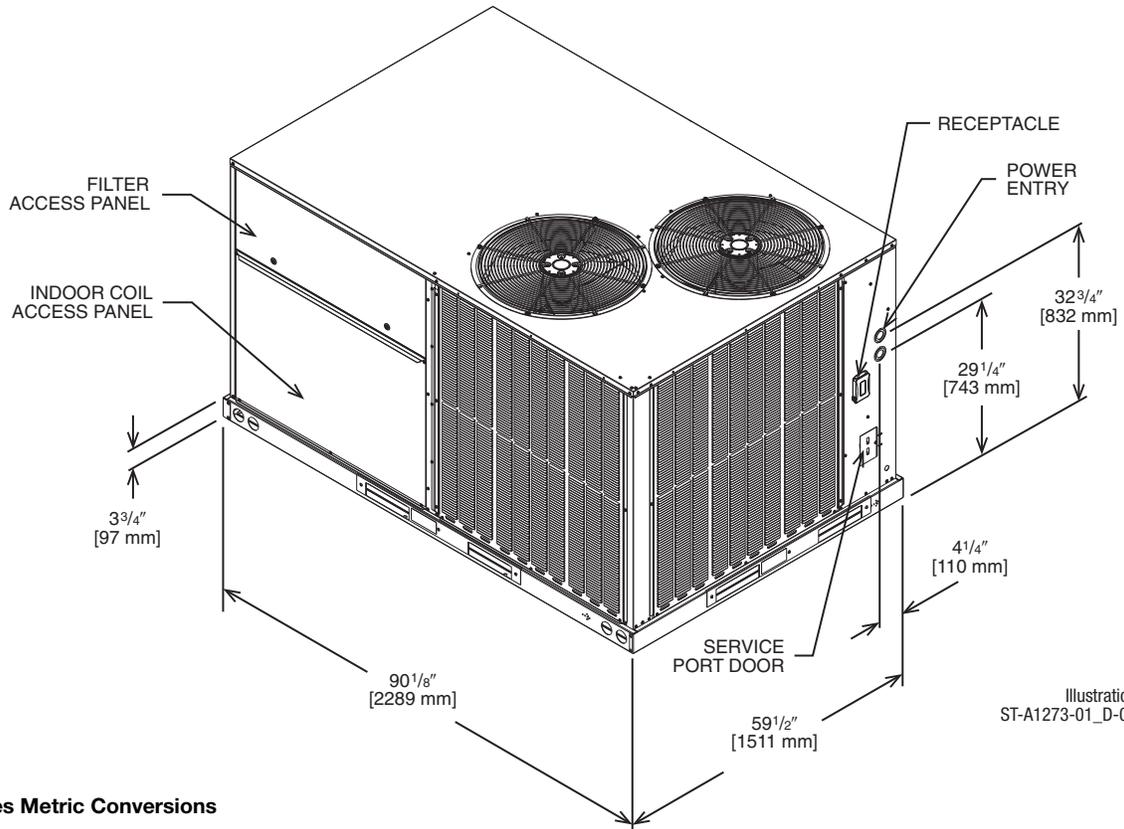


Illustration  
ST-A1273-01\_D-00

[ ] Designates Metric Conversions

# WEIGHTS

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5-12.5 [21.1-44.0]	26%	34%	17%	23%

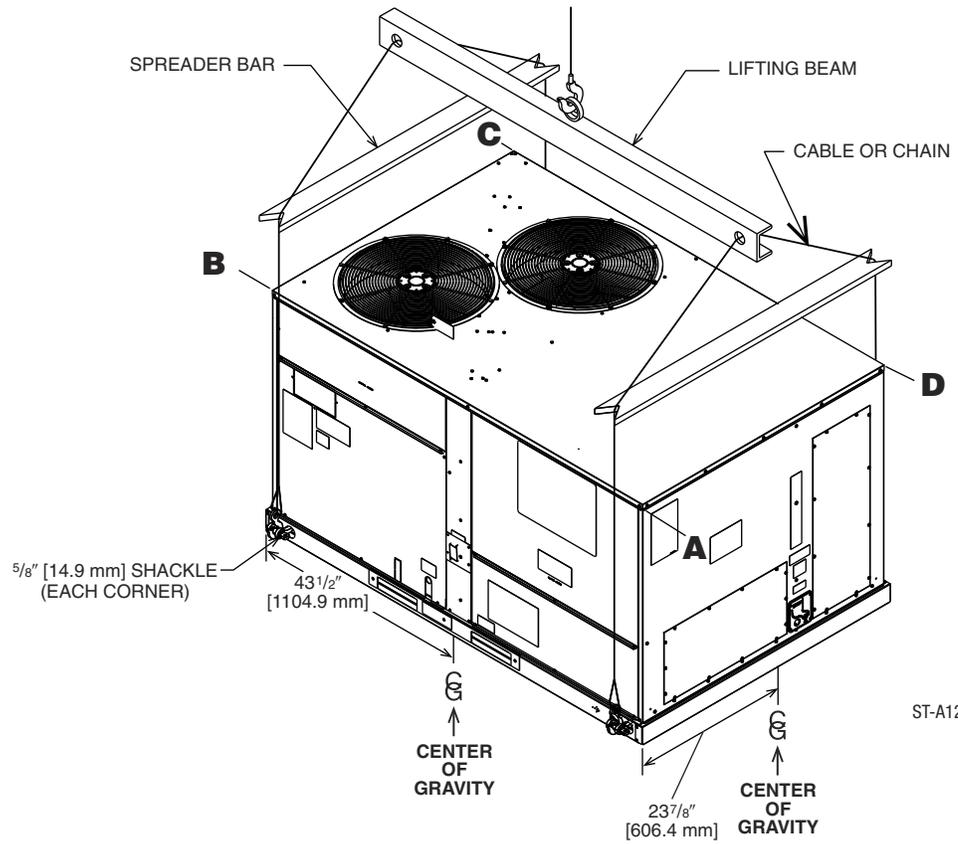


Illustration  
ST-A1273-01\_J-00

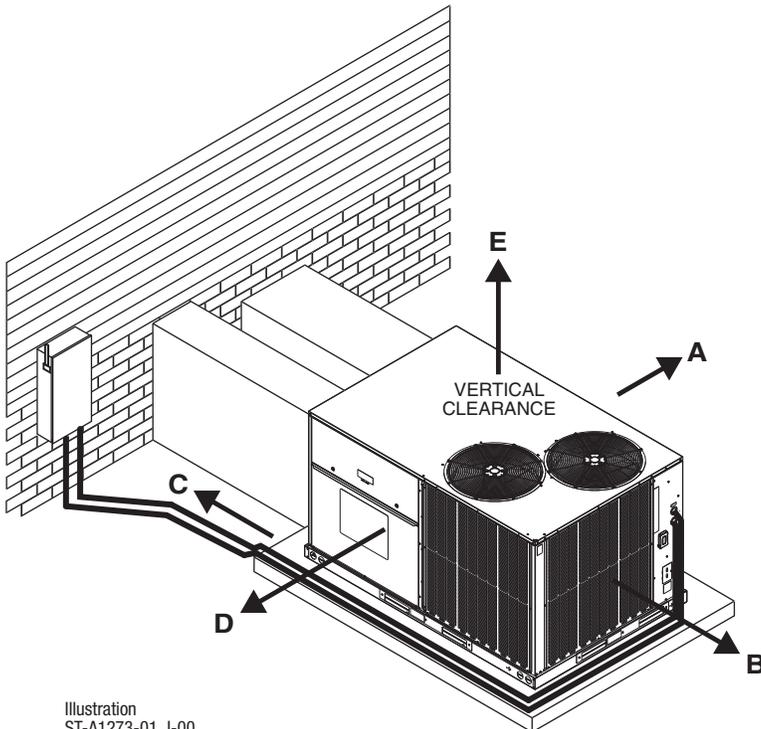


Illustration  
ST-A1273-01\_J-00

## CLEARANCES

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

RECOMMENDED CLEARANCE In. [mm]	LOCATION
48 [1219]	A - FRONT
24 [609]	B - CONDENSER END
48 [1219] ①	C - DUCT END
24 [609] ②	D - FILTER SIDE
60 [1524]	E - ABOVE

① 18" [457 mm] MINIMUM IF DRAINPAN WILL NOT BE REMOVED.

② 48" [1219 MM] MINIMUM IF ECONOMIZER IS INSTALLED.

## Screw Capacities

### Table Notes

- Capacities based on AISI S100 Section E4.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values. Tabulated values assume two sheets of equal thickness are connected.
- Capacities are based on Allowable Strength Design (ASD) and include safety factor of 3.0.
- Where multiple fasteners are used, screws are assumed to have a center-to-center spacing of at least 3 times the nominal diameter (d).
- Screws are assumed to have a center-of-screw to edge-of-steel dimension of at least 1.5 times the nominal diameter (d) of the screw.
- Pull-out capacity is based on the lesser of pull-out capacity in sheet closest to screw tip or tension strength of screw.
- Pull-over capacity is based on the lesser of pull-over capacity for sheet closest to screw header or tension strength of screw.
- Values are for pure shear or tension loads. See AISI Section E4.5 for combined shear and pull-over.
- Screw Shear (Pss), tension (Pts), diameter, and head diameter are from CFSEI Tech Note (F701-12).
- Screw shear strength is the average value, and tension strength is the lowest value listed in CFSEI Tech Note (F701-12).
- Higher values for screw strength (Pss, Pts), may be obtained by specifying screws from a specific manufacturer.

### Allowable Screw Connection Capacity (lbs)

Thickness (Mils)	Design Thickness	Fy Yield (ksi)	Fu Tensile (ksi)	#6 Screw (Pss = 643 lbs, Pts = 419 lbs)			#8 Screw (Pss = 1278 lbs, Pts = 586 lbs)			#10 Screw (Pss = 1644 lbs, Pts = 1158 lbs)			#12 Screw (Pss = 2330 lbs, Pts = 2325 lbs)			1/4" Screw (Pss = 3048 lbs, Pts = 3201 lbs)		
				0.138" dia, 0.272" Head			0.164" dia, 0.272" Head			0.190" dia, 0.340" Head			0.216" dia, 0.340" Head			0.250" dia, 0.409" Head		
				Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over	Shear	Pull-Out	Pull-Over
18	0.0188	33	33	44	24	84	48	29	84	52	33	105	55	38	105	60	44	127
27	0.0283	33	33	82	37	127	89	43	127	96	50	159	102	57	159	110	66	191
30	0.0312	33	33	95	40	140	103	48	140	111	55	175	118	63	175	127	73	211
33	0.0346	33	45	151	61	140	164	72	195	177	84	265	188	95	265	203	110	318
43	0.0451	33	45	214	79	140	244	94	195	263	109	345	280	124	345	302	144	415
54	0.0566	33	45	214	100	140	344	118	195	370	137	386	394	156	433	424	180	521
68	0.0713	33	45	214	125	140	426	149	195	523	173	386	557	196	545	600	227	656
97	0.1017	33	45	214	140	140	426	195	195	548	246	386	777	280	775	1,016	324	936
118	0.1242	33	45	214	140	140	426	195	195	548	301	386	777	342	775	1,016	396	1,067
54	0.0566	50	65	214	140	140	426	171	195	534	198	386	569	225	625	613	261	752
68	0.0713	50	65	214	140	140	426	195	195	548	249	386	777	284	775	866	328	948
97	0.1017	50	65	214	140	140	426	195	195	548	356	386	777	405	775	1,016	468	1,067
118	0.1242	50	65	214	140	140	426	195	195	548	386	386	777	494	775	1,016	572	1,067

18 GA →

## Weld Capacities

### Table Notes

- Capacities based on the AISI S100 Specification Sections E2.4 for fillet welds and E2.5 for flare groove welds.
- When connecting materials of different steel thicknesses or tensile strengths, use the lowest values.
- Capacities are based on Allowable Strength Design (ASD).
- Weld capacities are based on E60 electrodes. For material thinner than 68 mil, 0.030" to 0.035" diameter wire electrodes may provide best results.
- Longitudinal capacity is considered to be loading in the direction of the length of the weld.
- Transverse capacity is loading in perpendicular direction of the length of the weld.
- For flare groove welds, the effective throat of weld is conservatively assumed to be less than 2t.
- For longitudinal fillet welds, a minimum value of EQ E2.4-1, E2.4-2, and E2.4-4 was used.
- For transverse fillet welds, a minimum value of EQ E2.4-3 and E2.4-4 was used.
- For longitudinal flare groove welds, a minimum value of EQ E2.5-2 and E2.5-3 was used.

### Allowable Weld Capacity (lbs / in)

Thickness (Mils)	Design Thickness	Fy Yield (ksi)	Fu Tensile (ksi)	Fillet Welds		Flare Groove Welds	
				Longitudinal	Transverse	Longitudinal	Transverse
43	0.0451	33	45	499	864	544	663
54	0.0566	33	45	626	1084	682	832
68	0.0713	33	45	789	1365	859	1048
97	0.1017	33	45	1125	1269	- <sup>1</sup>	- <sup>1</sup>
54	0.0566	50	65	905	1566	985	1202
68	0.0713	50	65	1140	1972	1241	1514
97	0.1017	50	65	1269	1269	- <sup>1</sup>	- <sup>1</sup>

<sup>1</sup>Weld capacity for material thickness greater than 0.10" requires engineering judgment to determine leg of welds, W1 and W2.

**Installation Instructions:**

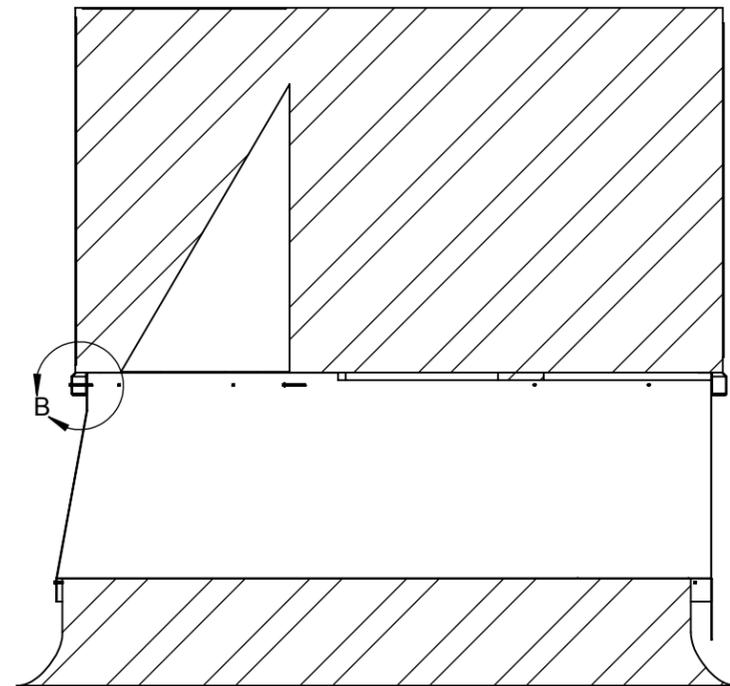
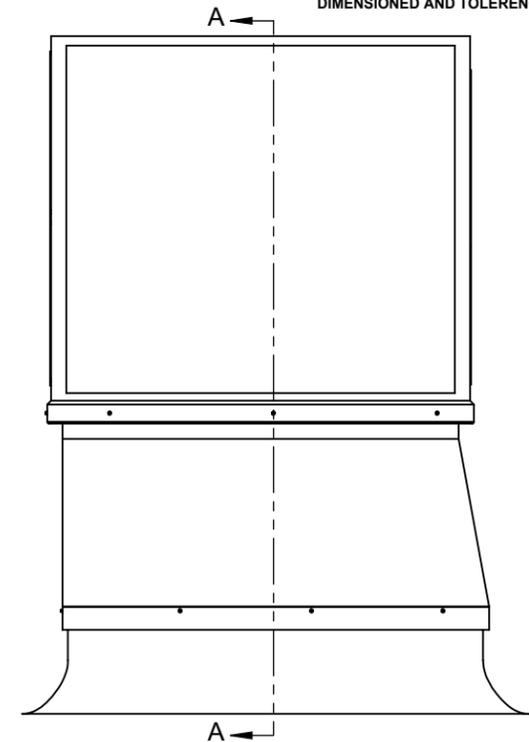
- 1) Remove existing RTU and curb adapter if applicable.
- 2) Clean surface of existing curb of any gasket or caulk. Apply CDI provided gasket around perimeter of curb and around all duct connections.
- 3) Set CDI curb adapter onto existing curb and align supply and return ducts. Some adapters may require cutting supply and/or return duct openings.
- 4) Gasket top surface of adapter around perimeter and around the supply and return openings.
- 5) Install RTU as normal.
- 6) Install 1/4" x 4" self tapping sheet metal screws (CDI supplied) 2-1/2"-2-3/4" up from the bottom of the edge of the adapter. Screws should go through the base flange of the adapter and into the existing curb return flange & wall. Each side of the curb adapter to use to the exact number of screws as called out in the report.
- 7) Install 1/4" x 4" self tapping sheet metal screws (CDI supplied) through the center of the RTU base rail and into the curb adapter side wall. Each side of the curb adapter to use to the exact number of screws as called out in the report.

Attn: Installing Contractor Tag: \_\_\_\_\_

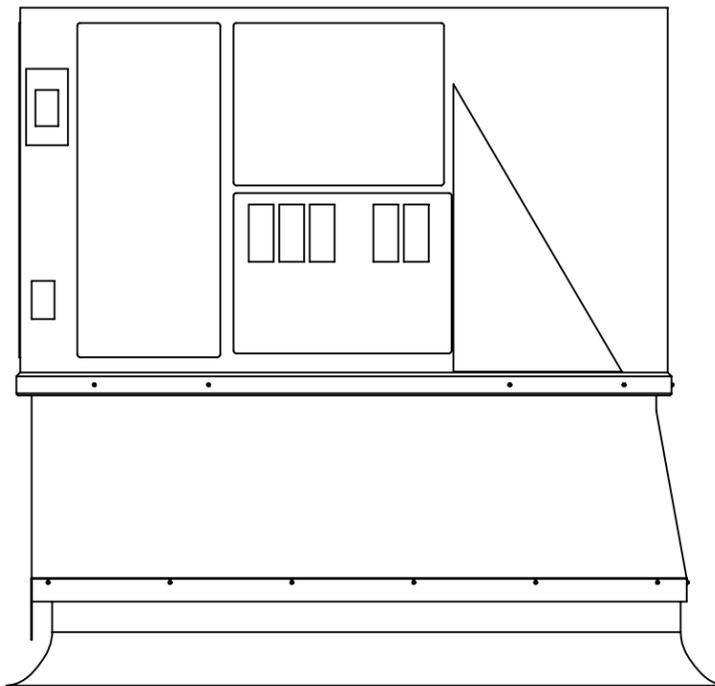
1/4" x 4" screws here

RTU AND CURB SHOWN FOR DISPLAY PURPOSES ONLY. YOUR INSTALLED PRODUCT MAY DIFFER

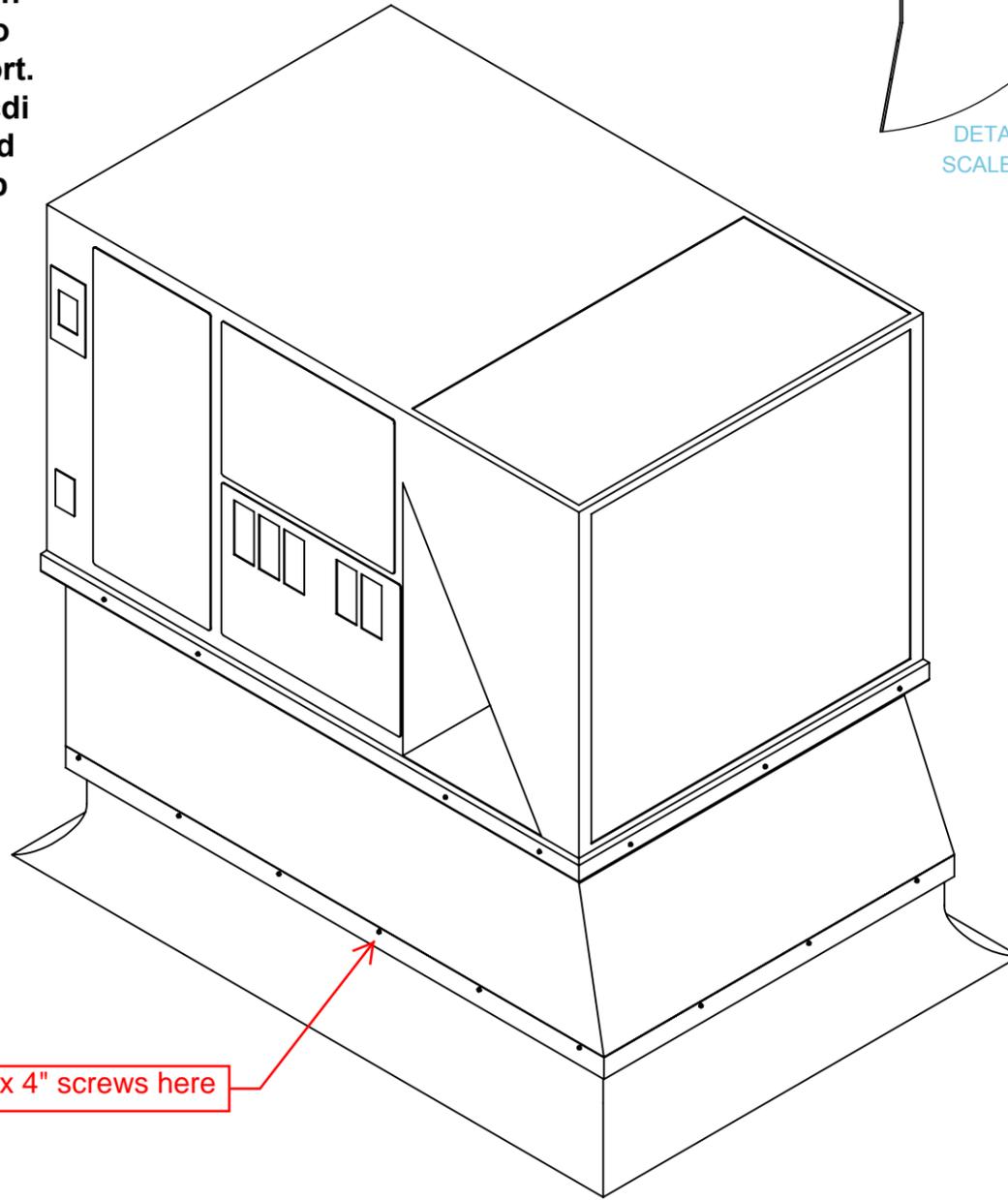
DETAIL B  
SCALE 1 : 4



SECTION A-A



1/4" x 4" screws here



APPROVALS		DATE	TITLE:	
DRAWN: dsamuelson			ALL SCREWS Hurricane Hold Down Drawing rev8 AZH	
CHECKED:			FILE NAME:	DRAWING NO.:
Tuesday, February 03, 2015 10:16:08 AM			ECO #:	REV: 8
17560 TYLER ST NW ELK RIVER, MN 55330 (763)391-7790 (763)391-7851		SCALE: 1:24	SHEET: 1	OF 1