Product Catalog

Trane Rental Services

Portable DX Air Conditioners



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TRANE TECHNOLOGIES

Introduction

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Revision History

Updated tabular data for F0 units for the Quick Equipment Overview section in the Application Considerations chapter.

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Overview

This catalog should only be used as a reference for Trane Rental Services Portable DX air conditioners to determine size limitations, available power, or lifting requirements. Verify the following with Trane Rental Services:

- Dimensions/weights and control options for the specific rental unit before equipment is shipped to a job site.
- Confirm adequate power is available for each unit.
- If additional information is required, reference the product catalog and/or installation manual.

Contact Trane Rental Services 24/7 for availability of all equipment (including: flex duct, electrical cable, transformers, etc.) prior to obtaining a purchase order from the customer. Equipment is available on a first-come, first-served basis, and can be reserved for three days with a signed Rental Agreement.

Application Considerations

Ventilation

100% Outside Air

- Standard units (RSDX) nominally operate to the standard 400 cfm/ton, and can only achieve a 15°F to 25°F temperature differential across the coil, while maintaining a usable external static pressure.
- In extreme ambient temperature environments, a single unit cannot provide the discharge air temperatures required to maintain a space at comfortable temperatures.
- In some applications it may necessary to operate units in a series configuration to obtain adequate supply air temperatures in 100% outdoor air applications, please contact Trane Rental Services for additional guidance.

Controls

Setpoint

All F0 and above units come equipped with a digital zone thermostat located in the rental control panel, from which operating mode and heat/cool setpoints can be adjusted.

All F1 and above units come equipped with a digital zone thermostat located in the rental control panel, from which operating mode and heat/cool setpoints can be adjusted.

All F2AA-AD and above units come equipped with a digital zone thermostat located in the rental control panel, from which operating mode and heat/cool setpoints can be adjusted.

All F2AE-HV and D2 units come equipped with a digital zone thermostat located in the rental control panel, from which operating mode and heat/cool setpoints can be adjusted. In addition, there is an optional wired, remote temperature/humidity sensor with a 50-foot cable included with every unit. This remote sensor can be installed within the space and can be engaged to provide inputs to the controller by adjusting the return/remote input selector switch located in the rental control panel.

F2AA-Space temperature input to the controller is provided via combination temperature/humidity sensors located in the return air compartment of the unit. Smart family has supply and return air option.

Communications

All F0 and F1units come standard with standalone electronic controller.

All F2AA-AD units come standard with IJ series standalone electronic controller.

F2AE units and above come standard with DATANAB controllers with native ModBus integration capabilities.

Airflow

- All F0 and F1 unit supply fan assemblies are equipped with a fixed speed motor.
- Contact Trane Rental Services if multi-zone VAV static pressure control capabilities are required contact Trane Rental Services.
- All F2AA-AD units' supply fan assemblies are equipped with variable speed ECM capabilities to modulate airflow and include a minimum fan speed potentiometer to establish minimum fan speed (unit will increase fan speed above this minimum based on mode and capacity). D2 and F2AE and beyond do not use potentiometer, they use DATANAB.
- All D2 F2AE-HV units' condenser fan has a two-speed selector switch to allow the Condenser fan to operate in either normal or quiet mode. D2 and F2AE and beyond have 3, refer to wiring diagram.

Electric Reheat — 12 Ton f2 Portable DX Units

All F2AA-AD 12 ton Portable DX units engage 16kW of electric reheat downstream of the cooling coil for dehumidification purposes. Dehumidification mode is initiated a physical switch to select operating mode.

All F2AE-HV 12 ton Portable DX units engage 16kW of electric reheat downstream of the cooling coil for dehumidification purposes. Dehumidification mode is initiated by the Datanab controller.

Flexible Rental Duct

Temporary rental flex duct provided by Trane Rental Services is not insulated and will gain or lose heat depending on operating mode and ambient temperatures. When planning the job, consider the length and path of flexible duct. Excess duct lengths across hot blacktops or roofing can have a negative impact on cooling ability.

The recommended maximum duct lengths for units do not take into consideration existing duct systems. If connecting flex duct to customer duct for additional distribution, consider the specified static pressure needed to push air through. Add this to the friction losses through the flexible duct to determine the total amount of external static pressure required.

Note: *Return duct should be run as straight as possible and secured using provided attachment points to prevent the flexible duct from collapsing under negative pressure.*

If collapsing return duct occurs, see the following options:

- Straighten the duct path by pulling duct taut and secure with wire or twine with provided nylon tabs and grommets.
- For turns, consider using hard elbows (not provided).
- Introduce fresh air to reduce the negative pressure in the return section of the unit.

Additional Considerations

For additional information and specific unit considerations, contact Trane Rental Services.

Quick Equipment Overview

Table 1. Unit configurations

Unit Feature	RSDX0012F0	RSDX0012F1	RSDX0012F2AA-AD	RSDX0012F2AD-HV	RSDX0012D2AA-BD
Cooling configuration	1–stage mechanical cooling	1–stage mechanical cooling	1–stage mechanical cooling	1–stage mechanical cooling	1–stage mechanical cooling
Heat size and type	30 kW	24 kW	1 Stage 16 kW EH	2 Stage 27 kW EH	2 Stage 27 kW EH
Dehumidification type	None	None	Manual EH 16 kW	Manual EH 27 kW	Manual EH 27 kW
Supply (Evaporator) fan	Fixed-Speed Motorized Impeller	Belt-driven forward inclined fan	Variable speed ECM plenum fan	Variable speed ECM plenum fan	Variable speed ECM plenum fan
Condenser Fan	Fixed-Speed Motorized Impeller	Variable speed ECM plenum fan	Variable speed ECM plenum fan	Variable speed ECM plenum fan	Variable speed ECM plenum fan
Controls	Stand Alone, space temperature control	Stand Alone, space temperature control	Stand Alone, space temperature control	DataNAB, MODBUS BAS Interface, Space Temperature and Humidity control	DataNAB, MODBUS BAS Interface, Space Temperature and Humidity control
Temperature/humidity input	Selectable return/ remote sensor	Selectable return/ remote sensor	Selectable return/ remote sensor	Selectable return/ remote sensor	Selectable return/ remote sensor
Quiet Mode	No	No	No	Yes	Yes

Packaged DX Heating and Cooling Units

Model: RSDX0012F0

Features

- Compact dimensions
- Plug and play package
- Indoor or outdoor installation
- Camlock power connections
- Digital thermostat
- Electric heat
- Scroll compressors
- Onboard condensate pump
- Forkliftable frame
- 12-inch supply/return collars
- 20-inch condenser collar
- 460V/3PH/60HZ
- Stepup transformers available

Table 2. General data – RSDX0012F0

Labels	Value
Nominal Cooling Tons	12
Heating Capacity	30 kW
Refrigerant	R-410A
Refrigerant Charge	12 pounds 8 ounces
Number of Refrigerant Circuits	1
Number of Compressors	1
Ambient Operating Conditions	65°F – 110°F

Table 3. Electrical data – RSDX0012F0

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3 Phase
Frequency	60 Hz
Wire Connection Type	Series 16 Cam Type Only
SCCR	5 kA
Minimum Circuit Ampacity (MCA)	53.3 A
Maximum Overcurrent Protection (MOP)	60 A
Cooling Only FLA	27.7 A
Heating Mode FLA	42.6 A

Table 4. Airflow data – RSDX0012F0

Labels	Value
Supply Motor	4.2 HP
Evaporator CFM / Nominal CFM	4,000
Condenser CFM	4,000
Maximum ESP at Nominal CFM	1.50 inches
Evaporator Return and Supply Air Connection Qty/Size	(3) 12 inches
Condenser Supply and Return Air Connection Qty/Size	(1) 20 inches
Merv-8 Throwaway Filter Qty/Size	(1) 20 inches x 24 inches x 2 inches (2) 15 inches x 20 inches x 2 inches
Maximum Supply/Return Evaporator Duct Run	100 feet
Maximum Condenser Duct Run	100 feet

Table 5. Dimensions and weights – RSDX0012F0

Labels	Value
Length	78 inches
Width	34.5 inches
Height	71 inches
Shipping Weight	1,500 pounds
Fork Pocket Dimensions	7.125 inches x 3.25 inches
Center to Center Distance of Fork Pockets	2 feet
Condensate Connection	1/4-inch Field Supplied Hose

Note: Lifting device: forklift or crane

Table 6. Operating clearances – RSDX0012F0

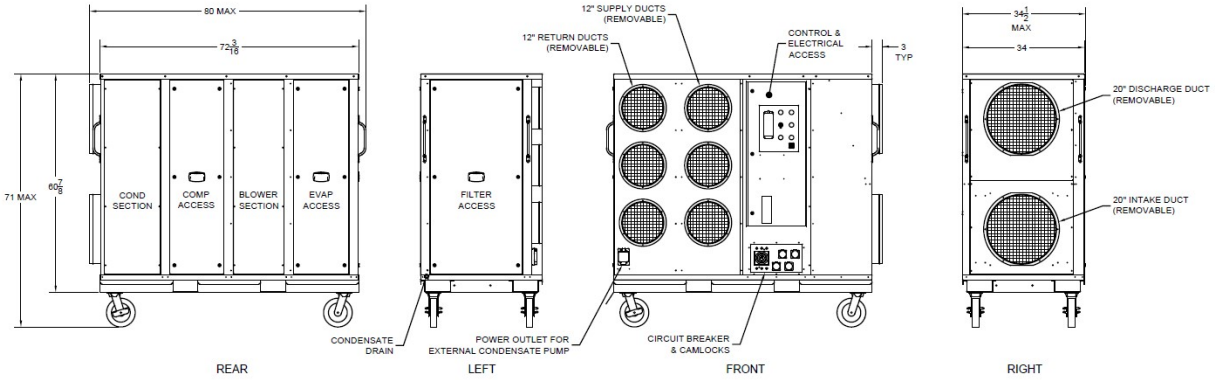
Labels	Value
Front (Control Pane & Supply Ductl)	48 inches
Back Side	48 inches
Left Side (Filter Access)	48 inches
Right Side (Condenser Duct Openings)	48 inches

Note: Operating clearances are provided based on single machine, above ground. For multiple unit or pit operation, contact Trane Rental Services.

Table 7. Electric heating performance – RSDX0012F0

CFM	Temperature Rise (°F)
2,000	47.4
2,400	39.5
2,800	33.8
3,200	29.6
3,600	26.3
4,000	23.7
4,400	21.5

Figure 1. Unit drawing – RSDX0012F0



Model: RSDX0012F1

Features

- Compact dimensions
- Plug and play package
- Indoor or outdoor installation
- Camlock power connections
- Digital thermostat
- Electric heat
- Scroll compressors
- Onboard condensate pump
- Forkliftable frame
- 12-inch supply/return collars
- 20-inch condenser collar
- 460V/3PH/60HZ
- Stepup transformers available

Table 8. General data – RSDX0012F1

Labels	Value
Nominal Cooling Tons	12
Heating Capacity	24 kW
Refrigerant	R-407C
Refrigerant Charge	61.2 pounds
Number of Refrigerant Circuits	1
Number of Compressors	1
Ambient Operating Conditions	30°F – 110°F 50% RH

Table 9. Electrical data – RSDX0012F1

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3 Phase

Table 9. Electrical data – RSDX0012F1 (continued)

Labels	Value
Frequency	60 Hz
Wire Connection Type	Series 16 Cam Type Only
SCCR	5 kA
Minimum Circuit Ampacity (MCA)	35.3 A
Maximum Overcurrent Protection (MOP)	50 A
Cooling Only FLA	32 A
Heating Mode FLA	35.7 A

Table 10. Airflow data – RSDX0012F1

Labels	Value
Supply Motor	(2) 2 HP
Nominal Supply CFM	5,500
Minimum/Maximum CFM	2,000–5,500
Maximum ESP at Nominal CFM	1.85 inches
Supply Air Connection Qty/Size	(4) 20 inches
Return Air Connection Qty/Size	(4) 20 inches
Condenser Air Connection Qty/Size	(1) 20 inch discharge, (1) Air Intake Grill
Merv-8 Throwaway Filter Qty/Size	(1) 24 inches x 24 inches x 2 inches
Maximum Supply/Return Evaporator Duct Run	75 feet
Maximum Condenser Duct Run	100 feet
Condensate Connection	1/4-inch Outer Diameter Barbed Fitting Connection

Table 11. Dimensions and weights – RSDX0012F1

Labels	Value
Length	64 inches
Width	32 inches
Height	61.5 inches
Shipping Weight	1,200 pounds
Fork Pocket Dimensions	7 inches x 2.75 inches
Center to Center Distance of Fork Pockets	2 feet 9 inches

Note: Lifting device: forklift or crane

Table 12. Operating clearances – RSDX0012F1

Labels	Value
Top	48 inches
Back	48 inches
Condenser Coil End	48 inches
Front (Control panel)	48 inches
Supply/Return Duct Connections	48 inches

Note: Operating clearances are provided based on single machine, above ground. For multiple unit or pit operation, contact Trane Rental Services.

Figure 2. Fan curve – RSDX0012F1

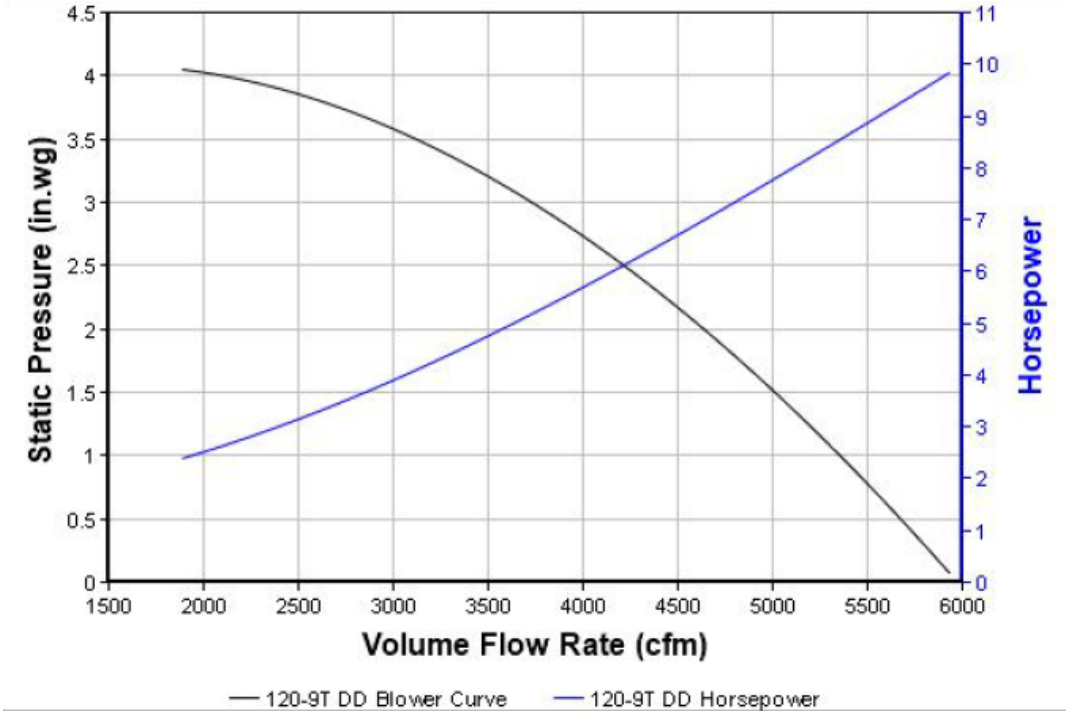


Table 13. Electric heating performance – RSDX0012F1

CFM	Temp Rise (°F)
2,000	37.9
2,400	31.6
2,800	27.1
3,200	23.7
3,600	21.1
4,000	19.0
4,400	17.2

Figure 3. Unit drawing – RSDX0012F1

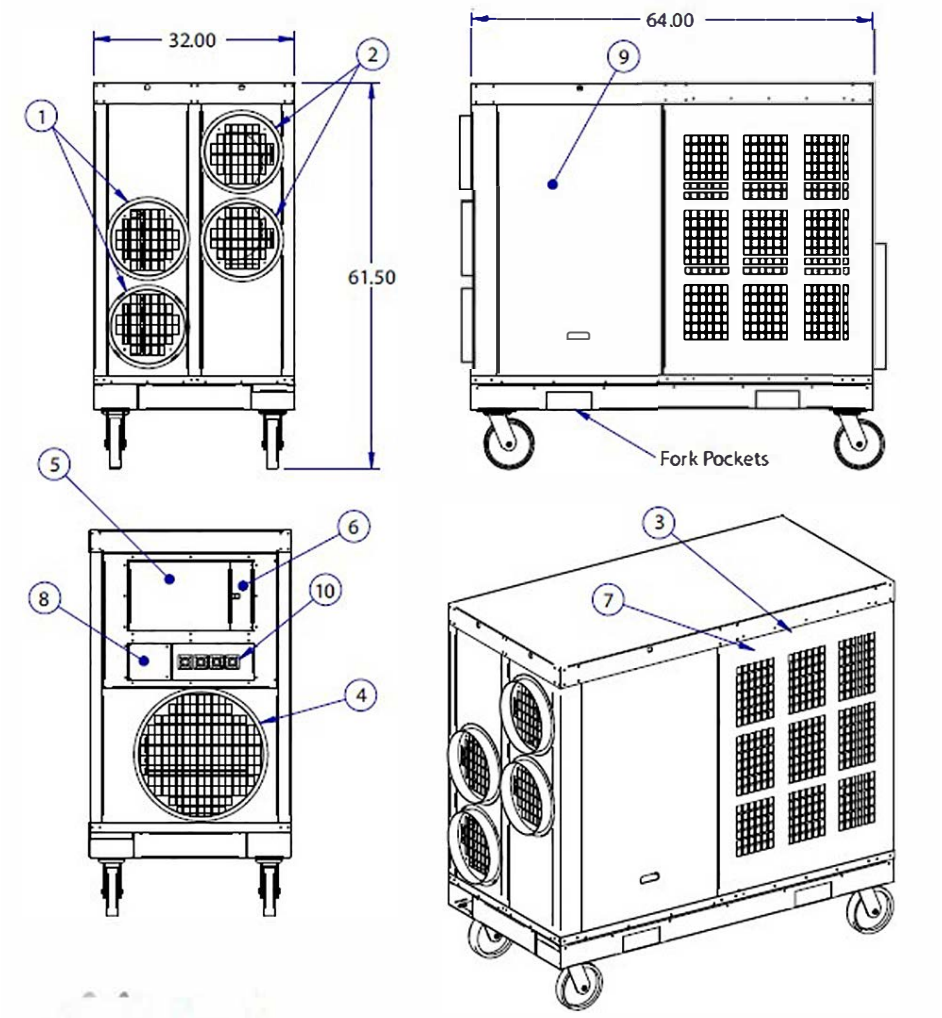


Table 14. RSDX0012F1 key

1	Cold Air Return
2	Cold Air Supply
3	Condenser Air Inlet
4	Condenser Air Outlet
5	Electrical Panel
6	Control Panel Access
7	Condensate Nipple
8	Breaker Access
9	Access Door
10	Camlock Connections

Model: RSDX0012F2AA-AD

Features

- Compact dimensions

- Plug and play package
- Indoor or outdoor installation
- Camlock power connections
- Digital thermostat
- Electric heat
- Scroll compressors
- Onboard condensate pump
- Forkliftable frame
- 12-inch supply/return collars
- 20-inch condenser collar
- 460V/3PH/60HZ
- Stepup transformers available
- Dehumidification (F2 only)

Table 15. General data – RSDX0012F2AA-AD

Labels	Value
Nominal Cooling Tons[a]	12
Heating Capacity	16 kW
Refrigerant	R-134A
Refrigerant Charge	20 pounds
Number of Refrigerant Circuits	1
Number of Compressors	1
Ambient Operating Conditions	30°F – 115°F

[a] Design Conditions: 95°F Ambient, 80°F EDB, 71°F EWB, 400 CFM/Ton

Table 16. Electrical data – RSDX0012F2AA-AD

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3 Phase
Frequency	60 Hz
Wire Connection Type	Series 16 Cam Type Only
SCCR	35 kA
Minimum Circuit Ampacity (MCA)	57 A
Maximum Overcurrent Protection (MOP)	60 A
Cooling Only FLA	28.7 A
Heating Mode FLA	25 A
Dehumid Mode FLA	48.7 A

Table 17. Airflow data – RSDX0012F2AA-AD

Labels	Value
Supply Motor	5 HP
Nominal CFM	4,000
Minimum/Maximum CFM	1,500 – 4,500

Table 17. Airflow data – RSDX0012F2AA-AD (continued)

Labels	Value
Maximum ESP at Nominal CFM	2.55 inches
Evaporator Air Connection Qty/Size	(2) Supply – 12 inches, (2) Return – 12 inches
Condenser Air Connection Qty/Size	(1) 20-inch Discharge[a], (1) Air Intake Grill
Merv-8 Throwaway Filter Qty/Size	(2) 16 inches x 25 inches x 2 inches
Maximum Evaporator Duct Run	100 feet
Maximum Condenser Duct Run	100 feet
Condensate Connection Size/Type	3/4-inch Garden Hose

[a] Condenser Air is drawn directly through the coil rather than having a return duct connection.

Table 18. Dimensions and weights – RSDX0012F2AA-AD

Labels	Value
Length	7 feet 0 inches
Width	2 feet 10.375 inches
Height	5 feet 8.5 inches
Shipping Weight	2,200 pounds
Fork Pocket Dimensions	7.625 inches x 3.625 inches
Center to Center Distance of Fork Pockets	3 feet 2 inches

Note: Lifting device: forklift or crane

Table 19. Operating clearances – RSDX0012F2AA-AD

Labels	Value
Condenser Coil Duct End	48 inches
Front (Control panel)	48 inches
Back (Supply/Return Duct Connections)	48 inches
Top	48 inches

Note: Operating clearances are provided based on single machine, above ground. For multiple unit or pit operation, contact Trane Rental Services.

Figure 4. RSDX0012F2AA-AD

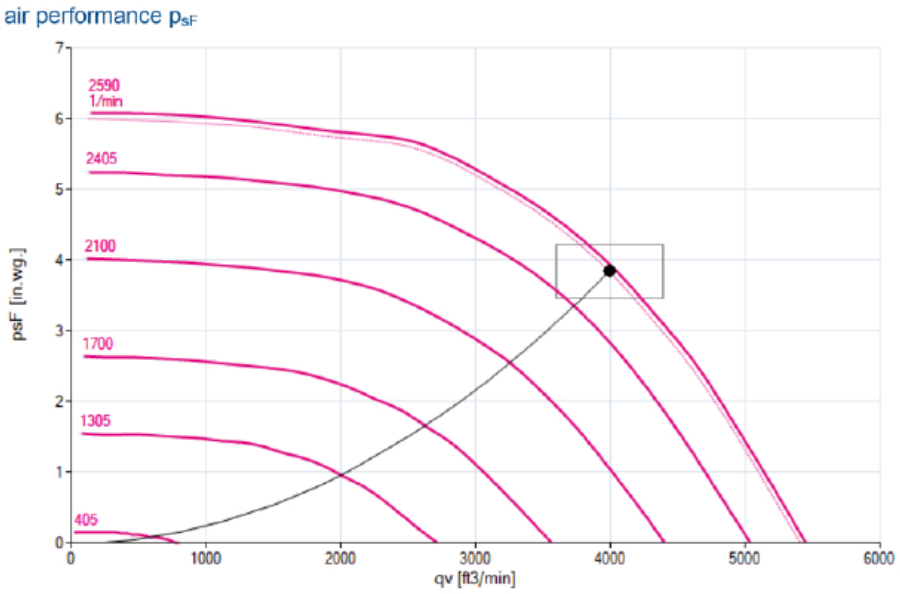
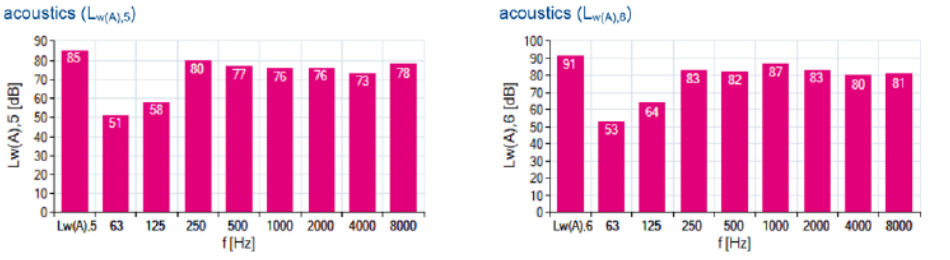


Table 20. Electric heating performance – RSDX0012F2AA-AD

CFM	Temp Rise (°F)
1,500	33.7
2,000	25.3
2,500	20.2
3,000	16.8
3,500	14.4
4,000	12.6
4,500	11.2

Figure 5. Sound data – RSDX0012F2AA-AD



1 BLW27046

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	85	51	58	80	77	76	76	73	78
$L_{w,5}$	90	78	74	87	80	76	75	72	80

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	91	53	64	83	82	87	83	80	81
$L_{w,6}$	94	79	79	90	85	87	82	79	83

Model: RSDX0012F2AE-HV

Features

- Compact dimensions
- Plug and play package
- Indoor or outdoor installation
- Camlock power connections
- Digital thermostat
- Electric heat
- Scroll compressors
- Onboard condensate pump
- Forkliftable frame
- 12-inch supply/return collars
- 20-inch condenser collar
- 460V/3PH/60HZ
- Step-up transformers available
- Dehumidification

Table 21. General data – RSDX0012F2AE-HV

Labels	Value
Nominal Cooling Tons	12
Heating Capacity	27 kW
Refrigerant	R-513A
Refrigerant Charge	20 pounds
Number of Refrigerant Circuits	1
Number of Compressors	1
Ambient Operating Conditions	30°F – 115°F

Table 22. Electrical data – RSDX0012F2AE-HV

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3 Phase
Frequency	60 Hz
Wire Connection Type	Series 16 Cam Type Only
SCCR	35 kA
Minimum Circuit Ampacity (MCA)	76 A
Maximum Overcurrent Protection (MOP)	80 A
Cooling Only FLA	25.1 A
Heating Mode FLA	38.9 A
Dehumid Mode FLA	64 A

Table 23. Airflow data – RSDX0012F2AE-HV

Labels	Value
Supply Motor	5 HP
Nominal CFM	4,000
Minimum/Maximum CFM	1,500 — 4,500
Maximum ESP at Nominal CFM	2.55 inches
Evaporator Air Connection Qty/Size	(2) Supply – 12 inches, (2) Return – 12 inches
Condenser Air Connection Qty/Size	(2) Supply – 20 inches, (2) Return – 20 inches
Merv-8 Throwaway Filter Qty/Size	(2) 16 inches x 25 inches x 2 inches
Maximum Evaporator Duct Run	100 feet
Maximum Condenser Duct Run	100 feet
Condensate Connection Size/Type	3/4-inch Garden Hose

Table 24. Dimensions and weights – RSDX0012F2AE-HV

Labels	Value
Length	7 feet 10 15/16 inches
Width	2 feet 10 3/8 inches
Height	6 feet 4 1/16 inches
Shipping Weight	1850 pounds
Side Fork Pocket Dimensions	8 inches x 3 1/2 inches
Front Fork Pocket Dimensions	10 inches x 3 1/2 inches
Center to Center Distance of Fork Pockets	4 feet 4 inches

Note: Lifting device: forklift or crane

Table 25. Operating clearances – RSDX0012F2AE-HV

Labels	Value
Condenser Outlet End	48 inches
Evaporator End	48 inches
Front (Control panel)	48 inches
Supply/Return Duct Connections	48 inches
Top	48 inches

Note: Operating clearances are provided based on single machine, above ground. For multiple unit or pit operation, contact Trane Rental Services.

Figure 6. Fan curve – RSDX0012F2AE-HV

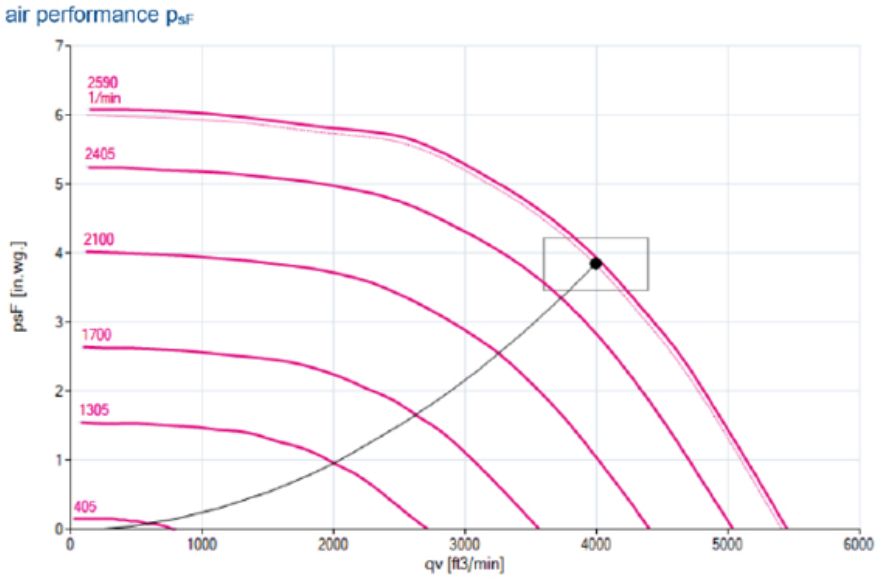
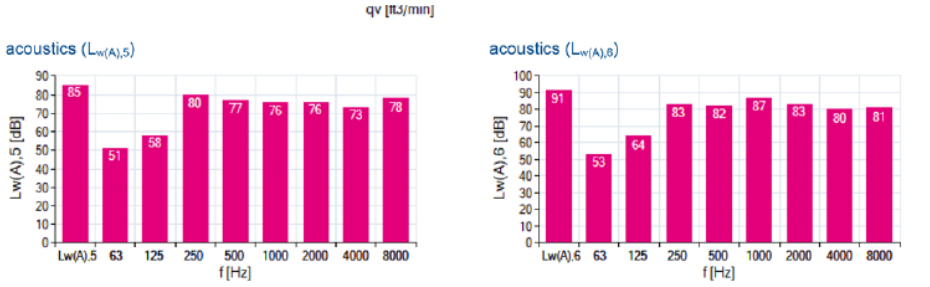


Table 26. Electric heating performance – RSDX0012F2AE-HV

CFM	Temp Rise (°F)
1,500	56.9
2,000	42.7
2,500	34.1
3,000	28.4
3,500	24.4
4,000	21.3
4,500	19.0

Figure 7. Fan curve – RSDX0012F2AE-HV



1 BLW27046

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	85	51	58	80	77	76	76	73	78
$L_{w,5}$	90	78	74	87	80	76	75	72	80

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	91	53	64	83	82	87	83	80	81
$L_{w,6}$	94	79	79	90	85	87	82	79	83

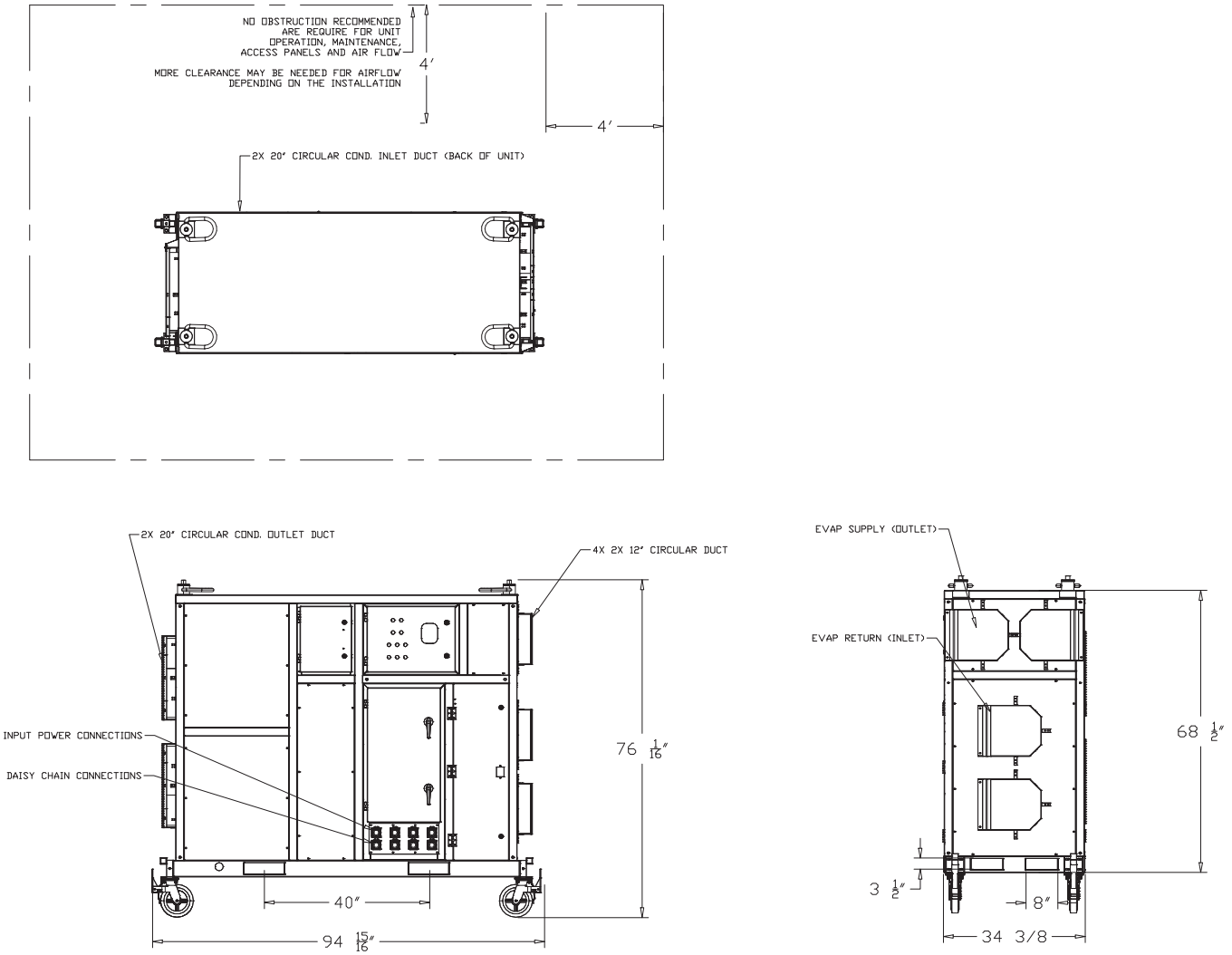
Table 27. Performance table – RSDX0012F2AE-HV

Air-flow cfm	Internal Static Pressure (InW-G)	Ent DB (°F)	Ambient Temperature (°F)																	
			90						95						100					
			Entering Wet Bulb																	
			61		67		80		61		67		80		61		67		80	
			TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
1500	0.5	75	9.1	6.7	9.1	4.6			8.6	6.3	8.6	4.3			8.2	6.0	8.2	4.1		
		80	9.1	7.9	9.1	5.7			8.7	7.4	8.7	5.4			8.2	7.1	8.2	5.2		
		85	9.1	9.1	9.1	6.9	10.3	3.5	8.7	8.6	8.7	6.6	9.2	3.2	8.2	8.2	8.2	6.2	8.3	2.9
		90	9.4	9.3	9.2	7.7	10.5	4.3	8.8	8.8	8.7	7.3	9.4	3.8	8.4	8.4	8.3	6.9	8.5	3.5
		95	9.4	8.6	9.3	7.8	10.6	4.6	8.9	8.2	8.8	7.4	9.5	4.1	8.5	7.8	8.4	7.0	8.6	3.7
2000	0.66	75	9.3	7.0	9.3	4.8			8.8	6.6	8.8	4.5			8.4	6.3	8.4	4.3		
		80	9.4	8.2	9.4	6.0			8.9	7.8	8.8	5.7			8.4	7.4	8.4	5.4		
		85	9.6	9.3	9.6	7.2	10.8	3.9	8.9	8.8	8.8	6.9	9.7	3.5	8.4	8.4	8.4	6.5	8.7	3.2
		90	9.6	9.5	9.6	8.0	11.1	4.7	9.0	9.0	9.0	7.6	9.8	4.2	8.7	8.6	8.6	7.2	8.9	3.8
		95	9.6	9.0	9.7	8.1	11.1	5.0	9.1	8.6	9.1	7.7	10.0	4.5	8.7	8.1	8.6	7.3	9.0	4.1
2500	0.79	75	9.5	7.3	9.5	5.0			9.0	6.9	9.0	4.8			8.5	6.6	8.5	4.5		
		80	9.5	8.6	9.5	6.3			9.0	8.2	9.0	6.0			8.6	7.8	8.5	5.7		
		85	9.5	9.4	9.5	7.6	11.1	4.3	9.0	8.9	9.0	7.2	10.0	3.8	8.6	8.5	8.5	6.8	9.0	3.5
		90	9.7	9.7	9.7	8.4	11.3	5.2	9.2	9.2	9.2	8.0	10.2	4.6	8.7	8.7	8.6	7.6	9.2	4.2
		95	9.8	9.5	9.9	8.5	11.5	5.5	9.3	9.0	9.2	8.1	10.3	5.0	8.8	8.5	8.7	7.7	9.3	4.5
3000	0.92	75	9.7	7.9	9.7	5.4			9.2	7.5	9.2	5.2			8.7	7.1	8.7	4.9		
		80	9.7	9.3	9.7	6.8			9.2	8.8	9.2	6.5			8.8	8.4	8.8	6.1		
		85	9.7	9.7	9.7	8.2	11.7	5.0	9.2	9.2	9.2	7.8	10.5	4.5	8.8	8.7	8.8	7.4	9.5	4.1
		90	10.0	9.9	10.0	9.1	12.0	6.0	9.2	9.4	9.3	8.6	10.7	5.4	8.9	8.9	8.9	8.2	9.7	4.9
		95	10.0	10.0	10.0	9.2	12.1	6.5	9.5	9.5	9.4	8.7	10.9	5.8	9.0	9.0	9.0	8.3	9.8	5.2
3500	1.09	75	10.0	8.4	10.0	5.8			9.4	8.0	9.4	5.5			9.0	7.6	9.0	5.2		
		80	10.0	9.9	10.0	7.2			9.5	9.4	9.5	6.9			9.0	8.9	9.0	6.5		
		85	10.0	9.9	10.1	8.7	12.3	5.7	9.7	9.4	9.4	8.3	11.1	5.1	9.0	9.0	9.0	7.9	10.0	4.6
		90	10.2	10.2	10.1	9.7	12.6	6.8	9.7	9.7	9.6	9.2	11.3	6.1	9.2	9.2	9.1	8.7	10.2	5.5
		95	10.3	10.3	10.2	9.8	12.8	7.3	9.8	9.8	9.7	9.3	11.5	6.6	9.3	9.3	9.2	8.8	10.3	5.9
4000	1.24	75	10.2	9.1	10.2	6.2			9.7	8.5	9.7	5.9			9.2	8.1	9.2	5.6		
		80	10.3	10.3	10.3	7.8			9.7	9.7	9.7	7.3			9.2	9.2	9.2	7.0		
		85	10.2	10.2	10.2	9.3	13.0	6.5	9.7	9.7	9.7	8.9	11.7	5.8	9.2	9.2	9.2	8.4	10.5	5.2
		90	10.5	10.5	10.6	10.4	13.3	7.8	9.9	9.9	9.8	9.8	11.9	7.0	9.4	9.4	9.4	9.3	10.7	6.3
		95	10.6	10.6	10.6	10.5	13.4	8.3	10.0	10.0	9.9	9.9	12.1	7.5	9.5	9.5	9.4	9.4	10.9	6.8
4500	1.41	75	10.4	9.5	10.4	6.5			9.9	9.0	9.8	6.1			9.4	8.5	9.3	5.8		
		80	10.4	10.4	10.4	8.1			9.9	9.9	9.9	7.7			9.4	9.4	9.4	7.3		
		85	10.4	10.4	10.4	9.8	13.4	7.1	9.9	9.8	9.8	9.3	12.0	6.4	9.4	9.3	9.4	8.8	10.9	5.8
		90	10.6	10.6	10.7	10.5	13.7	8.3	10.1	10.1	10.1	10.0	12.3	7.5	9.6	9.6	9.5	9.5	11.1	6.7
		95	10.7	10.7	10.7	10.7	13.9	8.9	10.2	10.2	10.2	10.0	12.4	8.0	9.7	9.7	9.6	9.6	11.2	7.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain NET cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. TGC = Total Gross Capacity (TR)
3. SHC = Sensible Heat Capacity (TR)

Figure 8. Unit drawing – RSDX0012F2AE-HV



Model: RSDX0012D2

Features

- Compact dimensions
- Plug and play package
- Indoor or outdoor installation
- Camlock power connections
- Digital thermostat
- Electric heat
- Scroll compressors
- Onboard condensate pump
- Forkliftable frame
- 12-inch supply/return collars
- 20-inch condenser collar
- 208–230V/3PH/60HZ dehumidification

Table 28. General data – RSDX0012D2AA-BD

Labels	Value
Nominal Cooling Tons	12
Heating Capacity	27 kW
Refrigerant	R-513A
Refrigerant Charge	20 pounds
Number of Refrigerant Circuits	1
Number of Compressors	3
Ambient Operating Conditions	30°F – 115°F

Table 29. Electrical data – RSDX0012D2AA-BD

Labels	Value
Number of Electrical Circuits	1
Voltage	208-230V 3 Phase
Frequency	60 Hz
Wire Connection Type	Series 16 Cam Type Only
SCCR	35 kA
Minimum Circuit Ampacity (MCA)	149/148 A
Maximum Overcurrent Protection (MOP)	160/150 A
Cooling Only FLA	60.8/55 A
Heating Mode FLA	70.2/75.8 A
Dehumid Mode FLA	122.1/122.8 A

Table 30. Airflow data – RSDX0012D2AA-BD

Labels	Value
Supply Motor	4 HP
Nominal CFM	4,000
Minimum/Maximum CFM	1,500 — 4,500
Maximum ESP at Nominal CFM	2.55 inches
Evaporator Air Connection Qty/Size	(2) Supply – 12 inches, (2) Return – 12 inches
Condenser Air Connection Qty/Size	(2) Supply – 20 inches, (2) Return – 20 inches
Merv-8 Throwaway Filter Qty/Size	(2) 16 inches x 20 inches x 2 inches
Maximum Evaporator Duct Run	100 feet
Maximum Condenser Duct Run	100 feet
Condensate Connection Size/Qty	3/4–inch Garden Hose

Table 31. Dimensions and weights – RSDX0012D2AA-BD

Labels	Value
Length	7 feet 10 15/16 inches
Width	2 feet 10 3/8 inches
Height	6 feet 4 1/16 inches

Table 31. Dimensions and weights – RSDX0012D2AA-BD (continued)

Labels	Value
Shipping Weight	1,850 pounds
Side Fork Pocket Dimensions	8 inches x 3 1/2 inches
Front Fork Pocket Dimensions	10 inches x 3 1/2 inches
Center to Center Distance of Fork Pockets	4 feet 4 inches

Note: Lifting device: forklift or crane

Table 32. Operating clearances – RSDX0012D2AA-BD

Labels	Value
Condenser Outlet End	4 feet
Evaporator End (if equipped)	4 feet
Front (Control panel)	4 feet
Back (Condenser Inlet Connections)	4 feet
Top	4 feet

Note: Operating clearances are provided based on single machine, above ground. For multiple unit or pit operation, contact Trane Rental Services.

Figure 9. Fan curve – RSDX0012D2AA-BD

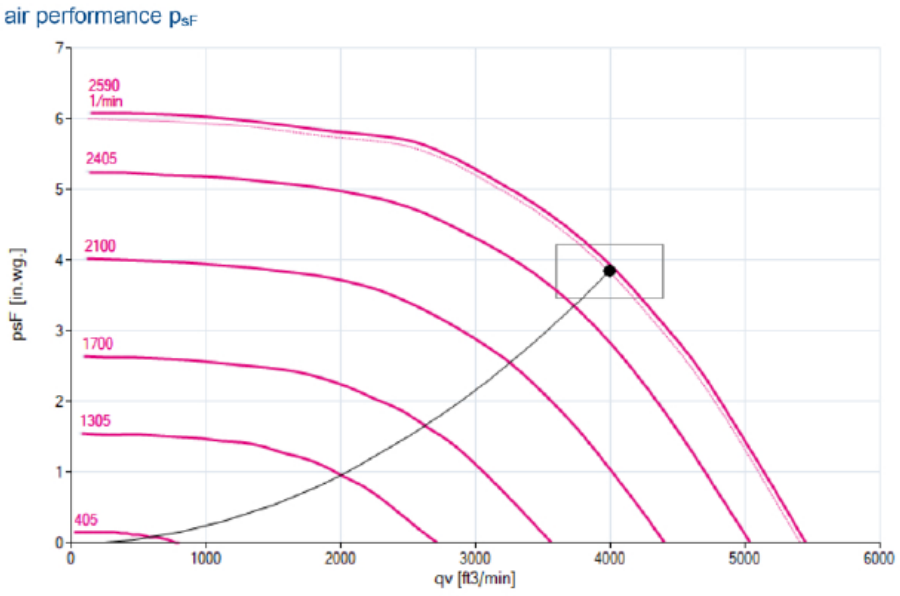


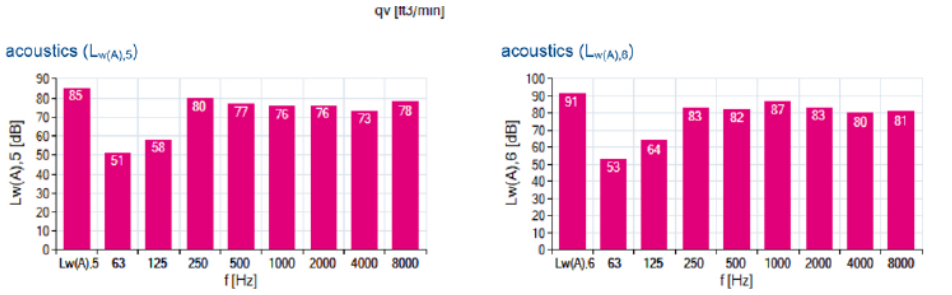
Table 33. Electric heating performance – RSDX0012D2AA-BD

CFM	Temp Rise (°F)
1,500	56.9
2,000	42.7
2,500	34.1
3,000	28.4
3,500	24.4

Table 33. Electric heating performance – RSDX0012D2AA-BD (continued)

CFM	Temp Rise (°F)
4,000	21.3
4,500	19.0

Figure 10. Sound data – RSDX0012D2AA-BD



1 BLW27046

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	85	51	58	80	77	76	76	73	78
$L_{w,5}$	90	78	74	87	80	76	75	72	80

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	91	53	64	83	82	87	83	80	81
$L_{w,6}$	94	79	79	90	85	87	82	79	83

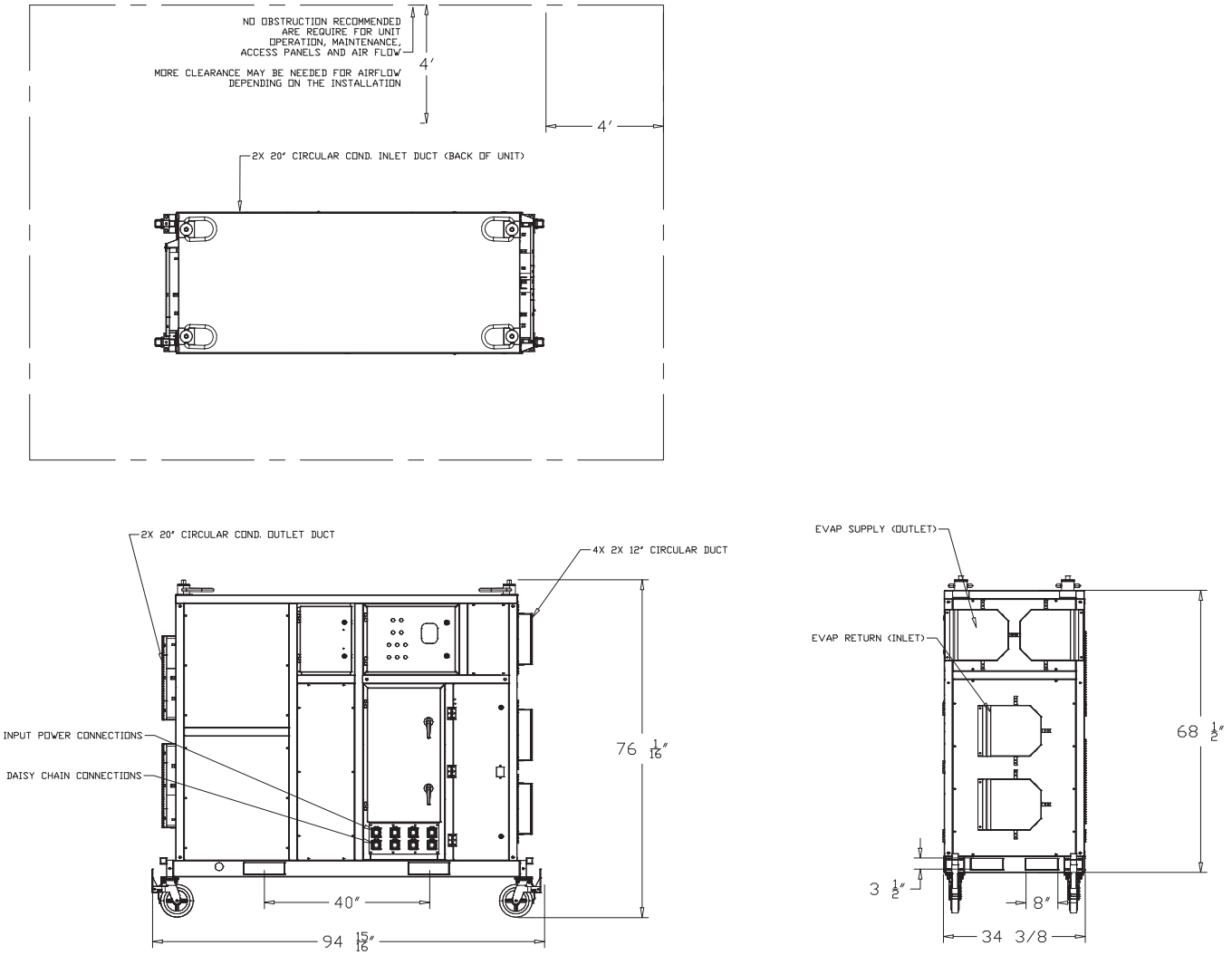
Table 34. Cooling capacities

Airflow cfm	Internal Static Pressure (InWG)	Ent DB (°F)	Ambient Temperature (°F)																	
			90						95						100					
			Entering Wet Bulb																	
			61		67		80		61		67		80		61		67		80	
			TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC	TGC	SHC
1500	0.5	75	9.3	6.8	9.3	4.7			8.9	6.4	8.8	4.4			8.4	6.1	8.4	4.2		
		80	9.3	8.0	9.3	5.8			8.9	7.6	8.8	5.5			8.4	7.2	8.4	5.3		
		85	9.3	9.2	9.3	7.0	10.6	3.6	8.9	8.7	8.8	6.6	9.5	3.2	8.4	8.3	8.4	6.3	8.6	2.9
		90	9.3	9.3	9.5	7.9	10.8	4.4	9.1	9.1	9.0	7.5	9.8	4.0	8.6	8.6	8.6	7.1	8.8	3.6
		95	9.4	9.4	9.5	7.9	10.9	4.7	9.1	8.4	9.0	7.5	9.8	4.2	8.7	7.9	8.6	7.1	8.8	3.8
2000	0.66	75	9.6	7.1	9.6	4.9			9.1	6.7	9.0	4.6			8.6	6.4	8.6	4.4		
		80	9.6	8.4	9.6	6.1			9.1	7.9	9.0	5.8			8.6	7.5	8.6	5.5.		
		85	9.6	9.5	9.6	7.3	11.0	3.9	9.1	9.0	9.0	7.0	10.0	3.5	8.6	8.6	8.6	6.6	9.0	3.2
		90	9.8	9.8	9.8	8.3	11.3	4.8	9.3	9.3	9.2	7.9	10.2	4.3	8.9	8.8	8.8	7.5	9.2	3.9
		95	9.8	9.2	9.8	8.3	11.4	5.1	9.3	8.8	9.2	7.9	10.2	4.6	8.9	8.3	8.8	7.5	9.2	4.2
2500	0.79	75	9.9	7.5	9.9	5.1			9.2	7.1	9.2	4.8			8.7	6.7	8.7	4.6		
		80	9.9	8.8	9.9	6.4			9.2	8.3	9.2	6.1			8.7	7.9	8.7	5.8		
		85	9.9	8.8	9.9	7.7	11.4	4.3	9.2	9.2	9.2	7.3	10.2	3.9	8.7	8.7	8.7	6.9	9.2	3.5
		90	9.9	9.9	9.9	8.7	11.7	5.3	9.5	9.5	9.4	8.2	10.5	4.8	9.0	9.0	8.9	7.8	9.5	4.3
		95	9.9	9.9	9.9	8.7	11.8	5.6	9.5	9.2	9.4	8.3	10.6	5.1	9.0	8.7	8.9	7.8	9.5	4.6
3000	0.92	75	10.0	8.0	10.0	5.5			9.5	7.6	9.4	5.2			9.0	7.2	9.0	5.0		
		80	10.0	9.5	10.0	6.9			9.5	9.0	9.4	6.5			9.0	8.5	9.0	6.2		
		85	10.0	9.9	10.0	8.3	12.0	5.0	9.4	9.4	9.4	7.9	10.9	4.5	9.0	9.0	9.0	7.5	10.0	4.1
		90	10.2	10.2	10.2	9.4	12.3	6.2	9.7	9.7	9.6	8.9	11.1	5.5	9.2	9.2	9.1	8.4	10.0	5.0
		95	10.3	10.3	10.3	9.4	12.4	6.5	9.7	9.7	9.7	8.9	11.1	5.9	9.2	9.2	9.2	8.4	10.0	5.3
3500	1.09	75	10.2	8.6	10.2	5.9			9.7	8.2	9.7	5.6			9.2	7.7	9.2	5.3		
		80	10.2	10.1	10.2	7.4			9.7	9.6	9.7	7.0			9.2	9.1	9.2	6.7		
		85	10.2	10.2	10.2	8.9	12.7	5.8	9.7	9.7	9.7	8.4	11.5	5.2	9.2	9.2	9.2	8.0	10.6	4.7
		90	10.5	10.5	10.4	10.0	13.0	7.1	10.0	10.0	9.9	9.5	11.7	6.3	9.5	9.5	9.4	9.0	10.5	5.7
		95	10.5	10.5	10.4	10.1	13.1	7.5	10.0	10.0	9.9	9.5	11.7	6.7	9.5	9.5	9.4	9.1	10.6	6.1
4000	1.24	75	10.5	9.2	10.5	6.3			10.0	8.7	9.9	6.0			9.5	8.3	9.4	5.7		
		80	10.5	10.5	10.5	7.9			10.0	10.0	9.9	7.5			9.5	9.5	9.4	7.1		
		85	10.5	10.5	10.5	9.5	13.3	6.6	10.0	10.0	9.9	9.0	12.0	5.9	9.5	9.4	9.4	8.5	10.8	5.3
		90	10.8	10.8	10.7	10.7	13.7	8.0	10.2	10.2	10.1	10.1	12.3	7.2	9.7	9.7	9.6	9.6	11.1	6.5
		95	10.8	10.8	10.7	10.7	13.7	8.5	10.2	10.2	10.2	10.2	12.3	7.7	9.7	9.7	9.7	9.7	11.1	6.9
4500	1.41	75	10.7	9.7	10.7	6.7			10.1	9.9	10.1	6.3			9.6	8.7	9.6	6.0		
		80	10.7	10.7	10.7	8.4			10.1	10.1	10.1	7.9			9.6	9.6	9.6	7.5		
		85	10.7	10.7	10.7	10.0	14.1	7.3	10.1	10.1	10.1	9.5	12.4	6.6	9.6	9.6	9.6	9.0	11.2	5.9
		90	11.0	11.0	11.1	10.9	14.1	8.7	10.4	10.4	10.3	10.3	12.7	7.8	9.9	9.9	9.8	9.8	11.5	7.0
		95	11.0	11.0	11.1	10.9	14.2	9.2	10.4	10.4	10.3	10.3	12.8	8.2	9.9	9.9	9.8	9.8	11.5	7.4

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain NET cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. TGC = Total Gross Capacity (TR)
3. SHC = Sensible Heat Capacity (TR)

Figure 11. Unit drawing – RSDX0012D2AA-BD



Notes

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