

Installation, Operation, and Maintenance Trane Rental Services

Air Handling Units



A SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

September 2024

TEMP-SVX006A-EN





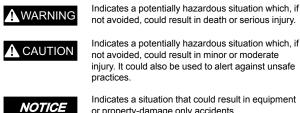
Introduction

Read this manual thoroughly before operating or servicing this unit.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:



injury. It could also be used to alert against unsafe

or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone laver when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone laver are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

Important Responsible Refrigerant **Practices**

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

A WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury.

All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury. Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/ sleeves, butvl gloves, safety glasses, hard hat/ bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labelling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.
- If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, **OR VOLTAGE TESTING WITHOUT PROPER** ELECTRICAL PPE AND ARC FLASH CLOTHING. **ENSURE ELECTRICAL METERS AND** EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.



A WARNING

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.
- Non-Trane personnel should always follow local regulations.

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Overview

This manual covers the air handling units (AHU) available to rent from Trane Rental Services for temporary cooling solutions. This includes AHU technical information, start-up information, and unit maintenance. Information contained in this manual is provided to ensure the safe installation and operation of the equipment and its surroundings.

The information provided is to be used as a reference for each AHU to aid in determining unit size, power requirements, or lifting requirements.

Contact Trane Rental Services for availability of equipment (including ancillary items: pumps, flexible hose, flexible duct) prior to proceeding with securing the rental equipment.

If additional information is required, contact Trane Rental Services.

Unit	Description	
RSAU0010F0XX (a)	5,000 CFM AHU with cooling only	
RSAU0010F1XX (a)	5,000 CFM AHU with cooling only	
RSAU0010F2XX (a)	5,000 CFM AHU with cooling only	
RSAU0025F1XX ^(a)	10,000 CFM AHU with cooling and hot water	
RSAU0025F2XX (a)	10,000 CFM AHU with cooling only	

Table 1. Units affected

Table 1. Units affected (continued)

Unit	Description
RSAU0050F1XX ^(a)	20,000 CFM AHU with cooling and hot water
RSAU0050F2XX (a)	20,000 CFM AHU with cooling only
RSAU0062F1XX ^(a)	25,000 CFM AHU with cooling and hot water
RSAU0062F2XX (a)	25,000 CFM AHU with cooling only
RSCC0030F0XX (a)	18,000 CFM AHU with cooling only

(a) Represents the unique inventory number.

A WARNING

Live Electrical Components!

Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

When it is necessary to work with live electrical components, have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks.



General Information

These rental air handling units are custom Trane air handlers modified for use as rental units. The majority of the modifications are related to framing for rigging purposes, connection of chilled water piping, and temporary duct connection.

RSAU0010F0 - F1

Units contain hydronic water coils that can be utilized for cooling or hot water applications, but the coils cannot be used with steam because they will be damaged. Each model has been selected for use with 100 percent outside air without return air duct connections.

The air handlers have unit mounted variable frequency drives (VFDs) with a potentiometer to adjust airflow (CFM) settings on the drive located inside each unit control panel.

RSAU0010F2

Units have chilled water-cooling coils which can be used for hot water and not for steam applications. Each unit has input/output 16 series cam type power cable receptacles to allow daisy-chaining supply voltage conductors to other air handler models of the same type in series.

The air handlers have unit mounted variable frequency drives (VFDs) with bypass to allow the fan to run at full speed in an event the VFD is damaged. A potentiometer is utilized to adjust airflow (CFM) settings locally on the drive located inside each unit control panel.

RSAU0025F1, RSAU0050F1, and RSAU0062F1

Units contain both chilled water and hot water coils for year-round operation. Each unit has been selected for use with 100 percent outside air, but include return plenums and dampers to allow for 100 percent return air

A Trane TR2 variable frequency drive (VFD) is included to control the fan motor. The VFD is controlled with a potentiometer dial. For additional information on the unit controls see "Controls Information," p. 45.

Important: Due to the configuration of the return air duct connections, these units must ship with the return air connections facing towards the rear of the trailer.

RSAU0025F2, RSAU0050F2, and RSAU0062F2

Each unit contains a single water coil that can be used for hot water or chilled water operation. Each unit has been selected for use with 100 percent outside air. Return connections and dampers allow for 100 percent return air.

Two Trane TR200 variable frequency drives (VFD) are included to control the dual plenum fans. Both VFDs receive input from a single potentiometer dial for fan speed. For additional information on the unit controls, see "Controls Information," p. 45.

RSCC0030F0

Units contain hydronic chilled water-cooling coils with 4inch Victaulic manifolds that must be installed in the field outside each unit cabinet. Each unit model has been selected for use with 100 percent outside air with four discharge air ducts and six return air duct connections. Two units are capable of being stacked at a time. All units have input/out 16 series cam type power cable receptacles to allow daisy-chaining supply voltage conductors to other air handler models of the same type in series.

Air handlers have four, unit mounted TR150 variable frequency drives (VFDs) with bypass to allow the fan(s) to run at full speed in an event the VFD is damaged. Each supply fan airflow (CFM) can be adjusted utilizing the VFD speed potentiometer dial mounted on the outside of the top control panel located on the width side of each AHU.

Order of AHU Sections in Direction of Airflow

The figures below illustrate the general construction of all Trane Rental Air Handling Units.



Figure 1. RSAU0010

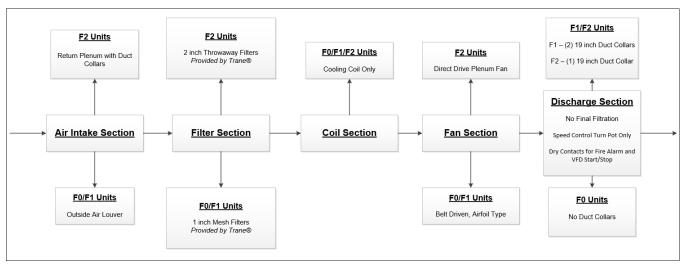


Figure 2. RSAU0025, RSAU0050, and RSAU0062

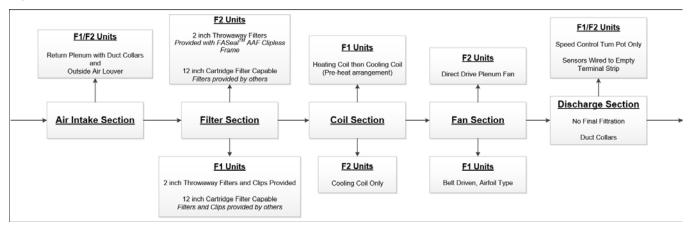
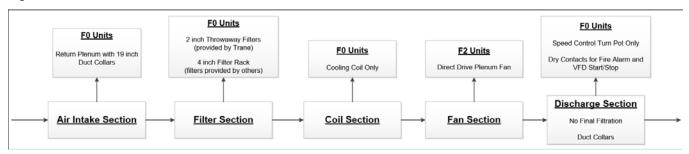


Figure 3. RSCC0030





Application Considerations - Air Handler Units

Freeze Protection

In ambient temperatures 32°F (0°C) and below freezing, it is recommended that a non-freezing, low temperature, corrosion inhibiting, heat transfer fluid be added to the chilled water system. The solution must be strong enough to provide protection against ice formation at the lowest anticipated fluid temperature. As a result of low fluid temperature below 40°F (4°C), glycol or other antifreeze solution may be utilized for hydronic systems. Contact Trane Rental Services engineering for more information on glycol percentage recommendations.

In addition to using glycol, it is highly recommended that all exposed pipe external to equipment enclosures be heat

traced and insulated. Follow the recommended guidelines by the heat tracing manufacturer.

NOTICE

Coil Freeze-Up!

Failure to follow instruction below could result in equipment damage.

Drain and vent coils when not in use. Trane recommends glycol protection in all possible freezing applications. Use a glycol approved for use with commercial cooling and heating systems and copper tube coils.



RSAU0010F0 - F1 AHU

Table 2. General data

Labels	Value
Model Number	3,200
Water Connection Size	2.5 in. Victaulic
Ambient Operating Conditions ^(a)	25°F to 100°F
Supply Motor(s)	5 hp
OCP Device	Circuit Breaker
Number of Electrical Circuits	1
Discharge Configuration	Horizontal
Flex Duct Connection Size	19 in. round
Number of Discharge Air Connections F0 Models	0
Number of Discharge Air Connections F1 Models	2
Max External Static Pressure @ Nominal CFM	1.47 in.
Number of Return Air Connections	0
Filter Rack ^(b) (Quantity and size)	(1) 27.5 in. × 29.5 in.
Nominal Airfow (cfm)	5,000
Min/Max Airflow ^(c) (cfm)	3,125/5,000

Note: Selection is required for actual AHU performance.

^(a) For ambient conditions below 40°F, glycol is recommended.

(b) Unit provided with standard mesh filter. Filter rack will not accept any other type of filter.

(c) Min/Max airflow is dependent upon external static pressure requirement. Contact Trane Rental Services for specific airflow and static pressure information.

Table 3. Electrical data

Labels	Value
Voltage	460V 3-phase
Frequency	60 Hz
Electrical Cable Supplied	50 ft #8/4 AWG
Minimum Circuit Ampacity (MCA)	10 amps
Maximum Overcurrent Protection (MOP)	30 amps

Note: For additional electrical information, contact Trane Rental Services.

Table 4. Performance data

Labels	Value
Airflow (CFM)	5,000
Cooling Coil	
Entering Air DB/WB Temp (°F)	90/73
Leaving Air DB/WB Temp (°F)	55.8/55.6
Fluid Flow (GPM)	35
Entering Water Temp (°F)	44
Leaving Water Temp (°F)	58.7
Coil Water Pressure Drop (ft. H ₂ O)	23.9
Sensible Capacity (MBh)	166.2
Total Capacity (MBh)	258
Coil Face Area (sq. ft.)	4.9
Coil Rows	8

Table 5.Water flow rates

	Minimum	Maximum
CW Coil Flow (GPM)	25	45
CW Coil Pressure Drop (ft. H ₂ O)	16.2	25.4

Note: Maximum water side pressure is 150 psi (2.31 ft. $H_2O = 1$ psi).

Table 6. Dimensions and weights

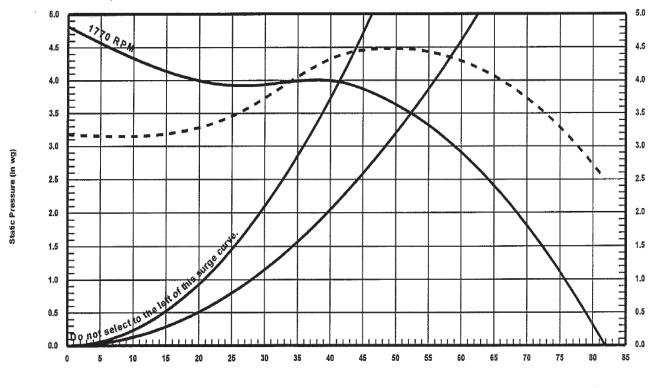
	F0 Models	F1 Models
Length	7 ft. 4 in.	5 ft. 8 in.
Width	2 ft. 8 in.	2 ft. 9 in.
Height without Casters	6 ft. 5 in.	4 ft. 9 in.
Weight	1,500 lb	1,300 lb

Features

- Discharge can be configured for one or two duct connections.
- Variable Frequency Drive (VFD) with potentiometer.
- · Suitable for chilled and hot water applications.
- Condensate pump with alarm.
- Permanent, cleanable filter.
- · Forklift pockets and caster wheels.



Figure 4. RSAU0010F0 - F1 fan curve



Volume (CFM) x 100

Rental Services

Figure 5. RSAU0010F0 side view

Figure 6. RSAU0010F0 supply and return view







Figure 7. RSAU0010F1 (2 supply style AHU)

Figure 8. RSAU0010F1 (2 supply style AHU)





RSAU0010F2 AHU

Table 7. General data

Labels	Value
Water Connection Size/Type	2.5 in. Victaulic
Ambient Operating Conditions	0°F to 115°F ^(a)
Number of Electrical Circuits	1

 $^{(a)}$ $\,$ Glycol may be required for ambient operation below 40°F.

Table 8. Electrical data - circuit breaker style disconnect

Labels	Value
Voltage	460V 3-phase
Frequency	60 Hz
Wire Connection Type	Series 16 Cam Type Only
SCCR	5,000 amps
Minimum Circuit Ampacity (MCA)	15 amps
Maximum Overcurrent Protection (MOP)	25 amps
Motor FLA	11.6 amps

Table 9. Airflow data

Labels	Value
Supply Motor	10 HP
Nominal CFM	5,000
Min/Max CFM	3,500 to 5,000
Max External Static Pressure @ Nominal CFM	5.8 in.
Supply Air Connection Qty/Size	(1) 20 in.
Return Air Connection Qty/Size	(1) 20 in.
MERV-8 Throwaway Filters	(1) 16 in. × 25 in. × 2 in. and (2) 20 in. × 25 in. × 2 in.
450' Max Supply/Return Duct Run	@ 3,500 CFM
600' Max Supply/Return Duct Run	@ 5,000 CFM

Table 10. Installed/Operating clearances

Labels	Value
Sides	36 in.
Ends (Supply/Return)	48 in.
Тор	No requirements

Table 11. Cooling coil

Labels	Value
Entering Air DB/WB Temp (°F)	95/80
Leaving Air DB/WB Temp (°F)	59.9/59.2
Fluid Flow (GPM)	84
Coil Water Pressure Drop (ft. H ₂ O)	7.78
Entering Water Temp (°F)	44
Leaving Water Temp (°F)	53.4
Sensible Capacity (MBh)	191.4
Total Capacity (MBh)	394.5
Coil Face Area (sq. ft.)	7.26
Coil Rows	8
Air Pressure Drop through Unit (in. H_2O)	1.37

Table 12. Water flow rates

	Minimum	Maximum
Cooling Coil Flow (GPM)	20	150
Cooling Coil Fluid Pressure Drop (ft. H ₂ O)	0.53	23.4

Note: Maximum water side pressure is 150 psi (2.31' H_2O = 1 psi).

Table 13. Dimensions and weights

Labels	Value
Length	7 ft – 6.5 in.
Width	2 ft – 11.375 in.
Height without Casters	6 ft – 0 in.
Height with Casters	6 ft – 8.25 in.
Shipping Weight	2,000 lb
Fork Pocket Dimensions	9.75 in.x 3.5 in.
Center to Center Distance of Fork Pockets	40 in.

Note: Lifting Device: Forklift or Crane.

Features

- Blower VFD with across the line bypass and speed adjustment potentiometer.
- Integrated condensate pump.
- · Phase and under/over voltage protection.
- Forklift pockets and caster wheels.
- Hinged service access.
- Series 16 cam type electrical connections.

For additional electrical information, contact Trane Rental Services.



Note: All features and specifications are subject to change without notice or liability.

Figure 9. RSAU0010F2 fan curve

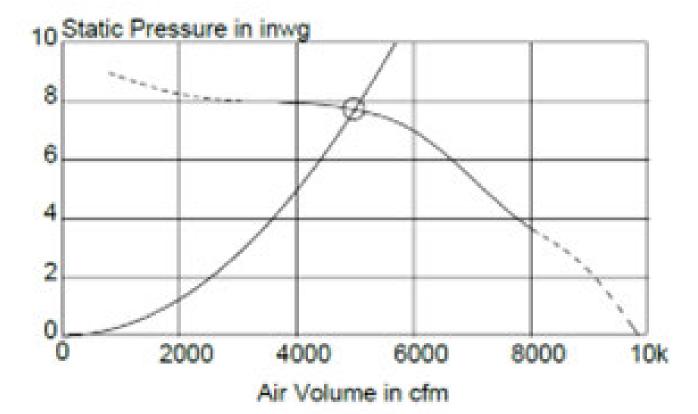


Table 14. Airflow data

Air Volume	5,000 cfm
Static Pressure	7.70 in. wg
Velocity Pressure	0.52 in. wg

Table 14. Airflow data (continued)

Total Pressure	8.22 in. wg
Outer Velocity	14.84 m/s

Table 15. RSAU0010F2 fan sound data

Hz	63	125	250	500	1k	2k	4k	8k	Overall	
Lwi (Lin.)	82	83	85	91	83	79	79	75	94	dB
Lwi (A)	56	68	76	88	83	80	80	74	90	dB (A)
Lpi (A)	49	61	69	81	75	73	73	67	83	dB (A)

Notes:

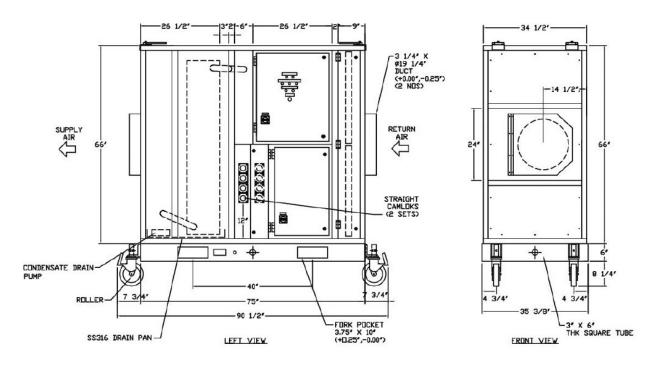
1. Sound data is for the inlet side.

2. Sound pressure level 1m, room conditions.





Figure 10. RSAU0010F2 unit drawing





RSAU0025F1 AHU

Table 16. General data

Labels	Value
Model Number	ТССВ
Water Connection Size	2.5 in. Victaulic
Ambient Operating Conditions ^(a)	14°F to 104°F
Supply Motor(s)	25 hp
Fused Disconnect	Yes
Number of Electrical Circuits	1
Discharge Configuration	Horizontal
Flex Duct Connection Size	19 in. round
Number of Discharge Air Connections	2
Max External Static Pressure @ Nominal CFM	6.0 in.
Number of Return Air Connections	3
Filter Rack ^(b) (Qty and size)	(4) 24 in. × 24 in., (2) 24 in. × 12 in.
Nominal Airfow (cfm)	10,000
Min/Max Airflow ^(c) (cfm)	5,500/11,250

Note: Selection is required for actual AHU performance.

(a) For ambient conditions below 40°F, glycol is recommended.

(b) Unit provided with standard 2 in filters. Filter rack will accept up to 95% efficient MERV 14 filters.

(c) Min/Max airflow is dependent upon external static pressure requirement. Contact Trane Rental Services for specific airflow and static pressure information.

Table 17. Electrical data

Labels	Value
Voltage	460V 3-phase
Frequency	60 Hz
Lug(s) can accept wire up to	#3 AWG wire
Minimum Circuit Ampacity (MCA)	44 amps
Maximum Overcurrent Protection (MOP)	70 amps

Notes:

1. Provided with 50 ft. of 4 conductor, 8 awg multicable.

2. For additional electrical information, contact Trane Rental Services.

Table 18. Performance data

Labels	Value
Airflow (CFM)	10,000
Air Pressure Drop through Unit (in. H ₂ O)	2.8
Cooling Coil	
Entering Air DB/WB Temp (°F)	84/77
Leaving Air DB/WB Temp (°F)	55/54.9
Fluid Flow (GPM)	155
Entering Water Temp (°F)	45
Leaving Water Temp (°F)	55
Coil Water Pressure Drop (ft. H ₂ O)	8.53
Sensible Capacity (MBh)	323.9
Total Capacity (MBh)	778.8
Coil Face Area (sq. ft.)	19.9
Coil Rows	8
Heating Coil	
Entering Air DB/WB Temp (°F)	45
Leaving Air DB/WB Temp (°F)	78
Fluid Flow (GPM)	36
Entering Water Temp (°F)	180
Leaving Water Temp (°F)	160
Coil Water Pressure Drop (ft. H ₂ O)	2.38
Total Capacity (MBh)	357.89
Coil Face Area (sq. ft)	19.9
Coil Rows	1

Table 19. Water flow rates

	Minimum	Maximum
CW Coil Flow (GPM)	70	200
CW Coil Pressure Drop (ft. H ₂ O)	2.14	13.66
HW Coil Flow (GPM)	10	125
HW Coil Pressure Drop (ft. H ₂ O)	0.2	28.07



Table 20. Dimensions and weights

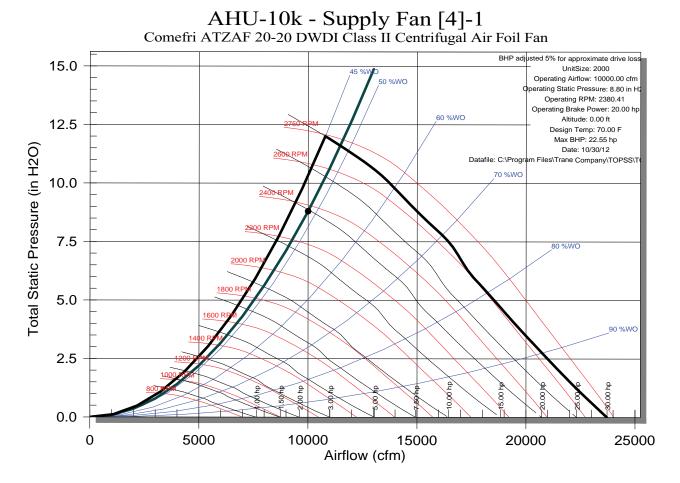
Labels	Value
Length	19 ft. 0 in.
Width	6 ft. 11 in.
Height	7 ft. 6 in.

Table 20. Dimensions and weights (continued)

Labels	Value
Weight	8,350 lb
Notes:	·

- Width includes permanently mounted piping manifold. 1. 2.
- Lifting Device: Forklift or Crane.

Figure 11. RSAU0025F1 fan curve



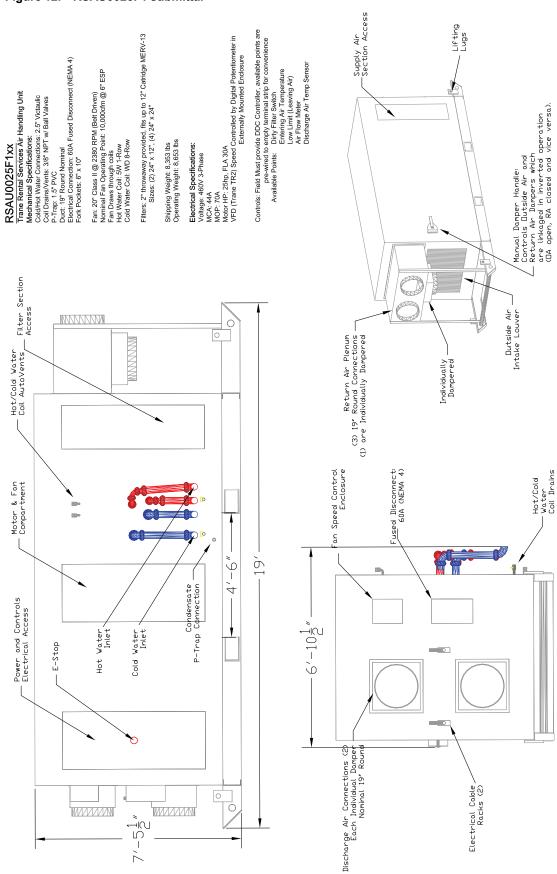


Figure 12. RSAU0025F1 submittal



RSAU0025F2 AHU

Table 21.General data

Labels	Value
Model Number	TCPA
Water Connection Size	2.5 in. Victaulic
Ambient Operating Conditions ^(a)	14°F to 104°F
Supply Motor(s)	(2) 15 hp
OCP Device	Circuit Breaker
Number of Electrical Circuits	1
Discharge Configuration	Horizontal
Flex Duct Connection Size	19 in. round
Number of Discharge Air Connections	2
Max External Static Pressure @ Nominal CFM	6.0 in.
Number of Return Air Connections	4
Filter Rack ^(b) (Qty. and size)	(4) 24 in. × 24 in., (2) 24 in. × 12 in.
Nominal Airfow (cfm)	10,000
Min/Max Airflow ^(c) (cfm)	1,700/11,200

Note: Selection is required for actual AHU performance.

(a) For ambient conditions below 40°F, glycol is recommended.

(b) Unit provided with standard 2 in filters. Filter rack will accept up to 95% efficient MERV 14 filters.

(c) Min/Max airflow is dependent upon external static pressure requirement. Contact Trane Rental Services for specific airflow and static pressure information.

Table 22. Electrical data

Labels	Value
Voltage	460V 3-phase
Frequency	60 Hz
Electrical Connection Type	Cam Type Only
SCCR	65K
Minimum Circuit Ampacity (MCA)	54 amps
Maximum Overcurrent Protection (MOP)	70 amps

Note: For additional electrical information, contact Trane Rental Services.

Table 23. Performance data

Labels	Value
Airflow (CFM)	10,000
Air Pressure Drop through Unit (in. H ₂ O)	3.63

Table 23. Performance data (continued)

Labels	Value				
Cooling Coil					
Entering Air DB/WB Temp (°F)	84/77				
Leaving Air DB/WB Temp (°F)	50.4/50.4				
Fluid Flow (GPM)	146.65				
Entering Water Temp (°F)	44				
Leaving Water Temp (°F)	56				
Coil Water Pressure Drop (ft. H ₂ O)	11.54				
Sensible Capacity (MBh)	363.8				
Total Capacity (MBh)	883				
Coil Face Area (sq. ft.)	20				
Coil Rows	10				

Table 24. Water flow rates

	Minimum	Maximum
CW Coil Flow (GPM)	30	292
CW Coil Pressure Drop (ft. H ₂ O)	0.62	41.5

Note: Lifting device: Forklift or Crane.

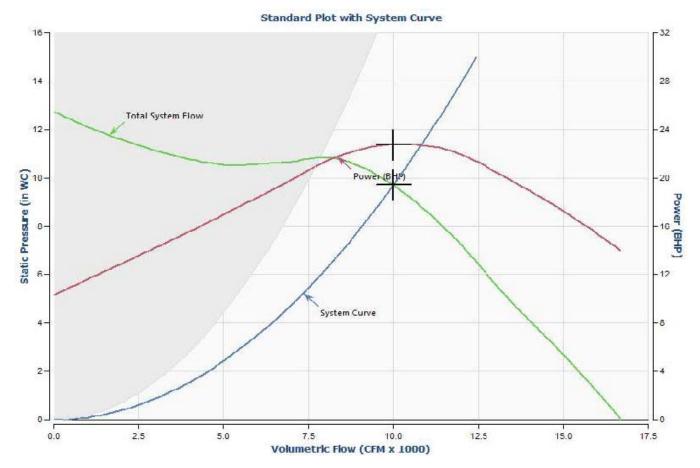
Table 25. Dimensions and weights

Labels	Value
Length	18 ft. 0 in.
Width	6 ft. 10 in.
Height	7 ft. 6 in.
Weight	8,700 lb

Note: Lifting device: Forklift or Crane.







Labels	Value
Size/Model	165MK2/EPLFN
Volumetric Flow (CFM)	10,000
SP (in WC)	9.7
Class	Ш
Speed (RPM)	3,560
Max Speed	4,000 RPM @ 70°F

Labels	Value
Power (BHP)	22.76
Outlet Vel (FPM)	2,456
Density (lb/ft ³)	0.075

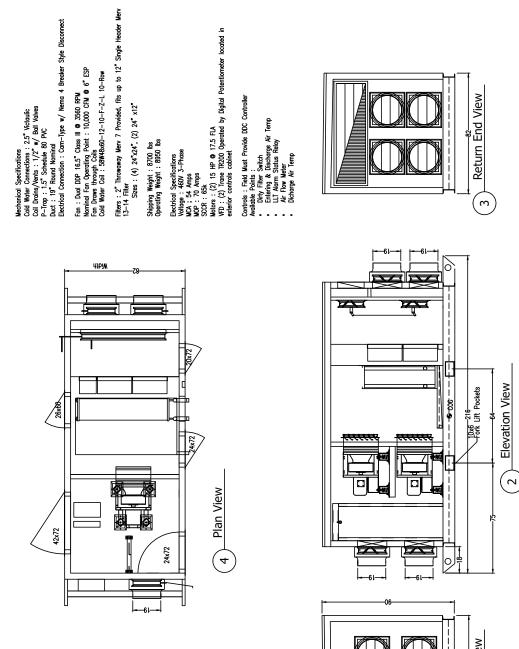
Note: Adjusted for two fans operating in parallel.

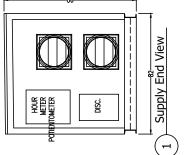
Sound	Octave Bands	1	2	3	4	5	6	7	8	LwA ^(a)	dBA(b)
Power	Inlet dB	91	91	93	101	95	88	87	89	101	86
	Outlet dB	92	92	96	102	98	93	88	84	103	88

(a) The overall (single value) fan sound power level in dB re. 10-12 Watts, 'A' weighted.
 (b) Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft, using a directivity factor of 1.



Figure 14. RSAU0025F2 submittal







RSAU0050F1 AHU

Table 26. General data

Labels	Value
Model Number	ТССВ
Supply and Return Water Connection Sizes	2.5 in. Victaulic
Ambient Operating Conditions(a)	14°F to 104°F
Supply Motor(s)	50 Hp
Fused Disconnect	Yes
Number of Electrical Circuits	1
Discharge Air Configuration	Horizontal
Flex Duct Connection Size	19 in. round
Number of Discharge Air Connections	4
Number of Return Air Connections	5
Max External Static Pressure @ Nominal CFM	6.3 in.
Filter Rack ^(b) (Qty. and size)	(9) 24 in. × 24 in. and (3) 24 in. × 12 in.
Nominal Airfow (cfm)	20,000
Min/Max Airflow ^(c) (cfm)	8,500/22,250

Note: Selection is required for actual AHU performance.

(a) For ambient conditions below 40°F, glycol is recommended.

- (b) Unit provided with standard 2 in filters. Filter rack will accept up to 95% efficient MERV 14 filters.
- (c) Min/Max airflow is dependent upon external static pressure requirement. Contact Trane Rental Services for specific airflow and static pressure information.

Table 27. Electrical data

Labels	Value
Voltage	460V 3-phase
Frequency	60 Hz
Lug(s) can accept wire up to	250 MCM
Minimum Circuit Ampacity (MCA)	83 amps
Maximum Overcurrent Protection (MOP)	125 amps

Notes:

1. Provided with 50 ft of 4 conductor, 4 awg multicable.

2. For additional electrical information, contact Trane Rental Services.

Table 28. Performance data

Labels	Value	
Airflow (CFM)	20,000	
Air Pressure Drop through Unit (in. H_2O)	2.81	
Cooling Coil		
Entering Air DB/WB Temp (°F)	84/77	
Leaving Air DB/WB Temp (°F)	55/54.9	
Fluid Flow (GPM)	310	
Entering Water Temp (°F)	45	
Leaving Water Temp (°F)	55	
Coil Water Pressure Drop (ft. H ₂ O)	14.29	
Sensible Capacity (MBh)	647.8	
Total Capacity (MBh)	1,557.6	
Coil Face Area (sq. ft.)	40.6	
Coil Rows	8	
Heating Coil		
Entering Air DB/WB Temp (°F)	45	
Leaving Air DB/WB Temp (°F)	78	
Fluid Flow (GPM)	38.5	
Entering Water Temp (°F)	180	
Leaving Water Temp (°F)	160	
Coil Water Pressure Drop (ft H ₂ O)	3.56	
Total Capacity (MBh)	715.77	
Coil Face Area (sq. ft.)	40.6	
Coil Rows	1	

Table 29. Water flow rates

	Minimum	Maximum
CW Coil Flow (GPM)	100	350
CW Coil Pressure Drop (ft. H ₂ O)	2.03	17.82
HW Coil Flow (GPM)	20	185
HW Coil Pressure Drop (f.t H ₂ O)	0.31	22.71



Table 30. Dimensions and weights

Labels	Value
Length	21 ft. 7 in.
Width ^(a)	8 ft. 6 in.
Height	9 ft. 1 in.

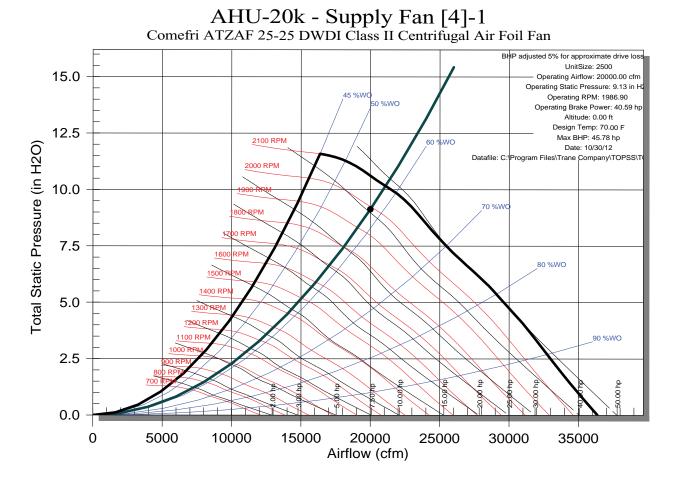
Table 30. Dimensions and weights (continued)

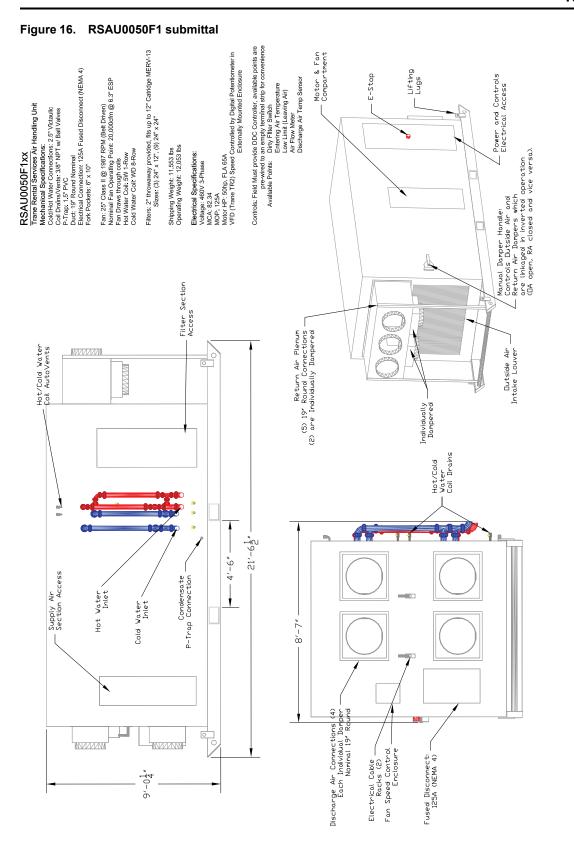
Labels	Value
Weight	11,600 lb

Note: Lifting device: Forklift or Crane.

^(a) Width includes permanently mounted piping manifold.

Figure 15. RSAU0050F1 fan curve







RSAU0050F2 AHU

Table 31. General data

Labels	Value
Model Number	TCPA
Water Connection Size	4 in. Victaulic
Ambient Operating Conditions ^(a)	14°F to 104°F
Supply Motor(s)	(2) 25 hp
OCP Device	Circuit Breaker
Number of Electrical Circuits	1
Discharge Configuration	Horizontal
Flex Duct Connection Size	19 in. round
Number of Discharge Air Connections	4
Max External Static Pressure @ Nominal CFM	6.0 in.
Number of Return Air Connections	6
Filter Rack ^(b) (Qty. and size)	(9) 24 in. x 24 in. and (3) 24 in. x 12 in.
Nominal Airfow (cfm)	20,000
Min/Max Airflow ^(c) (cfm)	4,500/20,800

Note: Selection is required for actual AHU performance.

- (a) For ambient conditions below 40°F, glycol is recommended.
- (b) Unit provided with standard 2 in filters. Filter rack will accept up to 95% efficient MERV 14 filters.
- (c) Min/Max airflow is dependent upon external static pressure requirement. Contact Trane Rental Services for specific airflow and static pressure information.

Table 32. Electrical data

Labels	Value
Voltage	460V 3-phase
Frequency	60 Hz
Electrical Connection Type	Cam Type Only
SCCR	65K
Minimum Circuit Ampacity (MCA)	86.25 amps
Maximum Overcurrent Protection (MOP)	110 amps

Note: For additional electrical information, contact Trane Rental Services.

Table 33. Performance data

Labels	Value
Airflow (CFM)	20,000
Air Pressure Drop through Unit (in. H ₂ O)	3.42
Cooling Coil	
Entering Air DB/WB Temp (°F)	84/77

Table 33. Performance data (continued)

Labels	Value
Leaving Air DB/WB Temp (°F)	50.6/50.4
Fluid Flow (GPM)	292.08
Entering Water Temp (°F)	44
Leaving Water Temp (°F)	56
Coil Water Pressure Drop (ft. H ₂ O)	11.23
Sensible Capacity (MBh)	724.4
Total Capacity (MBh)	1,757.8
Coil Face Area (sq. ft.)	40.4
Coil Rows	10

Table 34.Water flow rates

	Minimum	Maximum
CW Coil Flow (GPM)	75	620
CW Coil Pressure Drop (ft. H ₂ O)	0.88	46.41

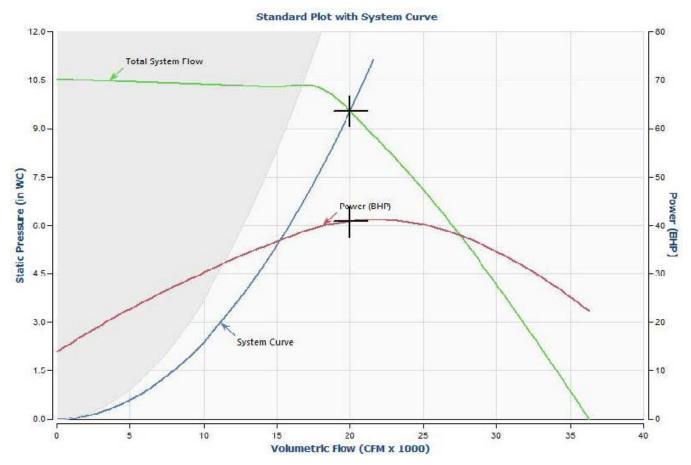
Table 35. Dimensions and weights

Labels	Value
Length	19 ft. 0 in.
Width	8 ft. 0 in.
Height	8 ft. 6 in.
Weight	10,500 lb

Note: Lifting device: Forklift or Crane.







Labels	Value
Size/Model	222MK2/EPLFN
Volumetric Flow (CFM)	20,000
SP (in WC)	9.55
Class	III
Speed (RPM)	2574
Max Speed	3,090 RPM @ 70°F

Labels	Value
Power (BHP)	40.88
Outlet Vel (FPM)	2,606
Density (lb/ft ³)	0.075

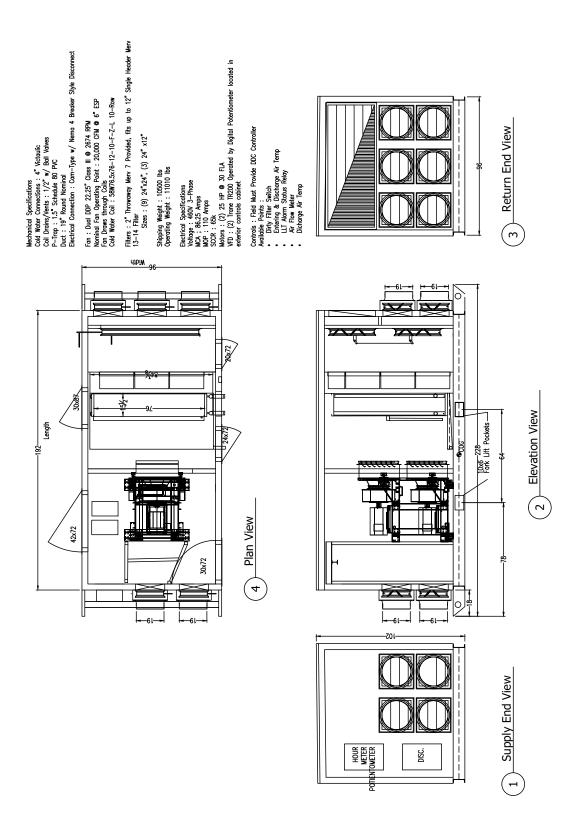
Note: Adjusted for (2) fans operating in parallel.

Sound Power	Octave Bands	1	2	3	4	5	6	7	8	LwA ^(a)	dBA ^(b)
	Inlet dB	89	89	104	102	88	84	80	78	101	86
	Outlet dB	95	95	103	102	95	91	88	86	102	88

(a) The overall (single value) fan sound power level in dB re. 10-12 Watts, 'A' weighted.
 (b) Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft, using a directivity factor of 1.



Figure 18. RSAU0050F2 submittal





RSAU0062F1 AHU

Table 36. General data

Labels	Value
Model Number	TCCB
Water Connection Sizes	4 in. Victaulic
Ambient Operating Conditions ^(a)	14°F to 104°F
Supply Motor(s)	50 Hp
Fused Disconnect	Yes
Number of Electrical Circuits	1
Discharge Air Configuration	Horizontal
Flex Duct Connection Size	19 in. round
Number of Discharge Air Connections	4
Max External Static Pressure @ Nominal CFM	5.72 in.
Number of Return Air Connections	5
Filter Rack ^(b) (Qty. and size)	(12) 24 in. x 24 in. and (4) 12 in. x 24 in.
Nominal Airfow (cfm)	25,000
Min/Max Airflow ^(c) (cfm)	11,000/27,500

Note: Selection is required for actual AHU performance.

^(a) For ambient conditions below 40°F, glycol is recommended.

(b) Unit provided with standard 2 in filters. Filter rack will accept up to 95% efficient MERV 14 filters.

(c) Min/Max airflow is dependent upon external static pressure requirement. Contact Trane Rental Services for specific airflow and static pressure information.

Table 37. Electrical data

Labels	Value	
Voltage	460V 3-phase	
Frequency	60 Hz	
Lug(s) can accept wire up to	250 MCM	
Minimum Circuit Ampacity (MCA)	83 amps	
Maximum Overcurrent Protection (MOP)	125 amps	

Notes:

1. Provided with 50 ft of 4 conductor, 4 awg multicable.

2. For additional electrical information, contact Trane Rental Services.

Table 38. Performance data

Labels	Value		
Airflow (CFM)	25,000		
Air Pressure Drop through Unit (in. H_2O)	3.28		
Cooling Coil			
Entering Air DB/WB Temp (°F)	84/77		
Leaving Air DB/WB Temp (°F)	50/49.9		
Fluid Flow (GPM)	378		
Entering Water Temp (°F)	44		
Leaving Water Temp (°F)	56		
Coil Water Pressure Drop (ft. H ₂ O)	11.78		
Sensible Capacity (MBh)	949.3		
Total Capacity (MBh)	2,274.6		
Coil Face Area (sq. ft.)	50		
Coil Rows	10		
Heating Coil			
Entering Air DB/WB Temp (°F)	45		
Leaving Air DB/WB Temp (°F)	78		
Fluid Flow (GPM)	44.7		
Entering Water Temp (°F)	180		
Leaving Water Temp (°F)	160		
Coil Water Pressure Drop (ft. H ₂ O)	3.56		
Total Capacity (MBh)	894.72		
Coil Face Area (sq. ft.)	40.6		
Coil Rows	1		

Table 39. Water flow rates

	Minimum	Maximum
CW Coil Flow (GPM)	125	500
CW Coil Pressure Drop (ft. H ₂ O)	1.88	19.48
HW Coil Flow (GPM)	30	200
HW Coil Pressure Drop (ft. H ₂ O)	0.55	21.77



Table 40.Dimensions and weights

Labels	Value	
Length	22 ft. 9 in.	
Width ^(a)	8 ft. 6 in.	
Height	9 ft. 10.5 in.	

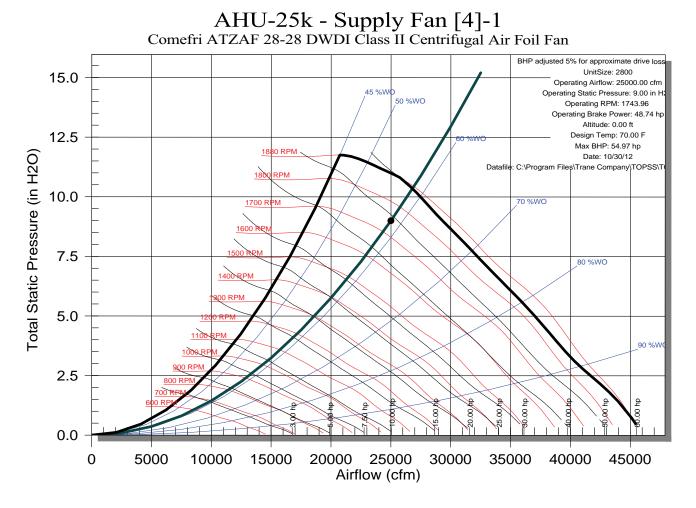
Table 40. Dimensions and weights (continued)

Labels	Value
Weight	15,100 lb
	•

Note: Lifting device: Forklift or Crane.

^(a) Width does not include field installed piping manifold.

Figure 19. RSAU0062F1 fan curve





Manual Damper Handle: Controls Outside Air and eterum Air Dampers which are linkged in inverted operation (OA open, RA closed and vice verso).

Outside Air__ Intake Louver

.

0

Figure 20. RSAU0062F1 submittal Motor & Fan Compartment Electrical Specifications: Voltacy 460V 3-Phase Moz: 82.34 MOP: 125A Moror HP: 50th; FLA 65A Moror HP: 50th; FLA 65A VFD (Trane TR2) Speed Controlled by Digital Potentiometer in VFD (Trane TR2) Speed Controlled by Digital Potentiometer in E-Stop Lifting Lugs (6) Controls: Field Must provide DDC Controller, available points are pre-wired to an empty terminal strip for convenience Available Points: Dirty Filler Swith Arailable Points: Dirty Filler Swith Low Limit (Lawing Air) Air Flow Meter Discharge Air Temp Sensor Power and Controls Electrical Access Filters: 2" throwaway provided, fits up to 12" Catridge MERV-13 Sizes: (4) 12" x 24", (12) 24" x 24" RSAU0062F1xx Trane Rental Services Air Handling Unit Mechanical Specifications: Cold Water Connections: 4" Victaulic Cold Dranks/Victaulic Cold Dranks/Vict Fan: 28" Class II @ 1744 RPM (Belt Driven) Nominal Fan Operating Point: 25,000cfm @ 5,72" ESP Fan Drava througho cols Hol Water Coli: 551 10-Row Cold Water Coli: 551 10-Row 0 Shipping Weight: 15,100 lbs Operating Weight: 15,750 lbs P Filter Section Access MMAMAA Return Air Plenum (5) 19" Round Connections (2) are Individually Dampered Hot/Cold Water Coil AutoVents Individually Dampered Hot/Cold Water Coil Drains $22' - 9^{\frac{1}{4}}$ Condensate P-Trap Connection Cold Water Inlet Supply Air Section Access $-9^{\circ} - 5_{4}^{1}$ Hot Water Inlet Discharge Air Connections (4) Each Individual Damper Nominal 19" Round MANNAN M WWWW Fan Speed Control Enclosure Fused Disconnect: 125A (NEMA 4) Electrical Cable Racks (2) $0\frac{1}{2}$ 9____



RSAU0062F2 AHU

Table 41. General data

Labels	Value	
Model Number	TCPA	
Water Connection Size	4 in. Victaulic	
Ambient Operating Conditions ^(a)	14°F to 104°F	
Supply Motor(s)	(2) 30 hp	
OCP Device	Circuit Breaker	
Number of Electrical Circuits	1	
Discharge Configuration	Horizontal	
Flex Duct Connection Size	19 in. round	
Number of Discharge Air Connections	6	
Max External Static Pressure @ Nominal CFM	6.0 in.	
Number of Return Air Connections	6	
Filter Rack ^(b) (Qty. and size)	(12) 24 in. × 24 in. and (4) 24 in. × 12 in.	
Nominal Airfow (cfm)	25,000	
Min/Max Airflow ^(c) (cfm)	5,600/26,000	

Note: Selection is required for actual AHU performance.

(a) For ambient conditions below 40°F, glycol is recommended.

(b) Unit provided with standard 2 in filters. Filter rack will accept up to 95% efficient MERV 14 filters.

(c) Min/Max airflow is dependent upon external static pressure requirement. Contact Trane Rental Services for specific airflow and static pressure information.

Table 42. Electrical data

Labels	Value	
Voltage	460V 3-phase	
Frequency	60 Hz	
Electrical Connection Type	Cam Type Only	
SCCR	65K	
Minimum Circuit Ampacity (MCA)	101.25 amps	
Maximum Overcurrent Protection (MOP)	125 amps	

Note: For additional electrical information, contact Trane Rental Services.

Table 43. Performance data

Labels	Value
Airflow (CFM)	25,000
Air Pressure Drop through Unit (in. H_2O)	3.28
Cooling Coil	
Entering Air DB/WB Temp (°F)	84/77

Table 43. Performance data (continued)

Labels	Value
Leaving Air DB/WB Temp (°F)	49.6/49.6
Fluid Flow (GPM)	374.92
Entering Water Temp (°F)	44
Leaving Water Temp (°F)	56
Coil Water Pressure Drop (ft. H ₂ O)	24.56
Sensible Capacity (MBh)	931.3
Total Capacity (MBh)	2,254.7
Coil Face Area (sq. ft.)	49.6
Coil Rows	10

Table 44.Water flow rates

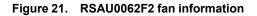
	Minimum	Maximum
CW Coil Flow (GPM)	60	555
CW Coil Pressure Drop (ft. H ₂ O)	0.86	50.97

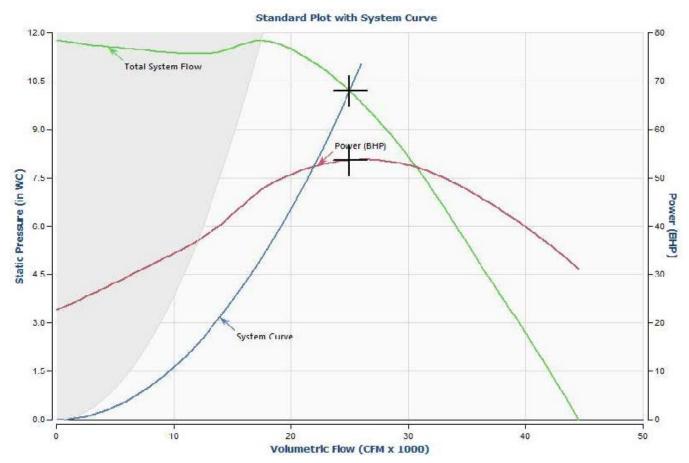
Table 45. Dimensions and weights

Labels	Value
Length	19 ft. 0 in.
Width	8 ft. 6 in.
Height	9 ft. 9 in.
Weight	12,100 lb

Note: Lifting device: Forklift or Crane.







Labels	Value
Size/Model	245MK2/EPLFN
Volumetric Flow (CFM)	25,000
SP (in WC)	10.2
Class	III
Speed (RPM)	2427
Max Speed	2806 RPM @ 70°F

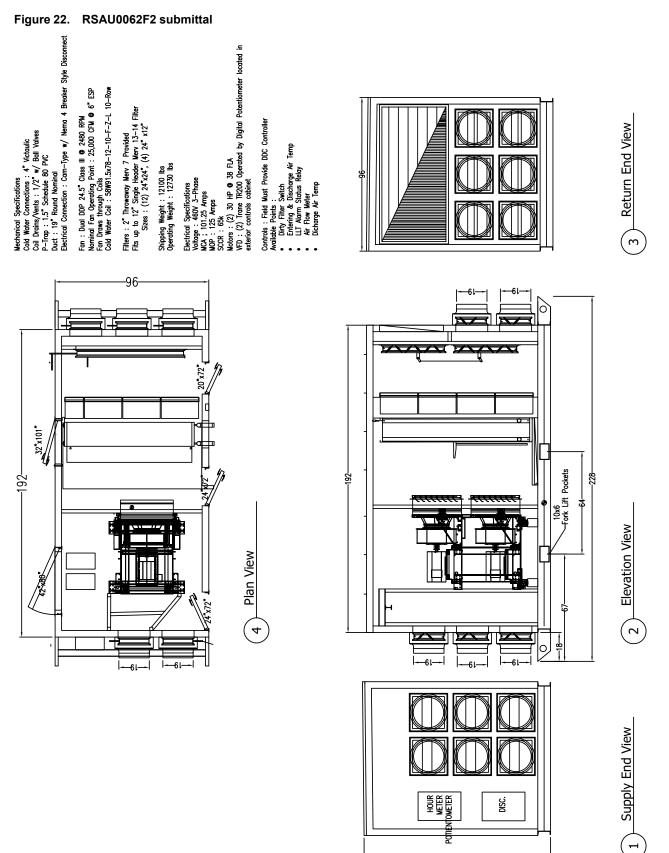
Labels	Value
Power (BHP)	53.66
Outlet Vel (FPM)	2,682
Density (lb/ft ³)	0.075

Note: Adjusted for (2) fans operating in parallel.

Sound	Octave Bands	1	2	3	4	5	6	7	8	LwA ^(a)	dBA ^(b)
Power	Inlet dB	91	91	107	103	89	88	87	82	103	88
	Outlet dB	98	98	102	101	97	94	91	87	103	88

(a) The overall (single value) fan sound power level in dB re. 10-12 Watts, 'A' weighted.
 (b) Estimated sound pressure level (re:0.0002 microbar) based on a single ducted installation at 5 ft, using a directivity factor of 1.





-%911-



RSCC0030F0 AHU

Table 46. General data

Label	Value
Ambient Operating Conditions ^(a)	14°F to 104°F

(a) For ambient conditions below 40°F, glycol is recommended.

Table 47. Electrical data

Labels	Value
Voltage	460V 3-phase
Frequency	60 Hz
Number of Electrical Circuits	1
SCCR	5,000 A
OCP Device	Circuit Breaker
Supply Motor(s) (Qty/HP/FLA)	4/10 HP/11.6 A each
Wire Connection Type	Series 16 Cam Type Only
Minimum Circuit Ampacity (MCA)	62.76 amps
Maximum Overcurrent Protection (MOP)	70 amps

Note: Series 16 pin style cam type connections on incoming power with daisy chain capable series 16 receptacle style cam type connections on outgoing power.

Table 48. Air side performance data

Labels	Value
Nominal Airflow (CFM)	18,000
Min/Max Airflow (CFM) ^(a)	5,740/18,300
Max External Static Pressure @ Nominal CFM	3.98 in.
Air Pressure Drop through Unit (in. H ₂ O)	3.27
Discharge Configuration	Horizontal
Flex Duct Connection Size (in.)	19 Round
Number of Discharge Air Connections	4
Number of Return Air Connections	6
	(3) 12 in. × 24 in.
Filter Rack ^(b) (Qty and Size)	(2) 16 in. × 20 in.
	(6) 20 in. × 24 in.

(a) Min/Max airflow is dependent upon external static pressure requirement. Contact Trane Rental Services for specific airflow and static pressure information.

(b) Unit provided with standard Merv 7 (2 in. filters), can accept 2 in. or 4 in. filters.

Table 49. Cooling coil performance data

Labels	Value
Entering Air DB/WB Temp (°F)	95/80
Leaving Air DB/WB Temp (°F)	51/50.9
Fluid Flow (GPM)	366.19
Entering Water Temp (°F)	44
Leaving Water Temp (°F)	54
Coil Water Pressure Drop (ft. H ₂ O)	18.6
Sensible Capacity (MBh)	884.9
Total Capacity (MBh)	1,837.5
Coil Face Area (sq. ft.)	28.7
Coil Rows	10
Water Connection Size	4 in. Victaulic

Table 50. Water flow rates

	Minimum	Maximum
CW Coil Flow (GPM)	61.5	418
CW Coil Pressure Drop (ft. H ₂ O)	0.69	23.95

Note: Maximum water side pressure is 150 psi (2.31 ft. H²O = 1 psi).

Table 51. Dimensions and weights

Labels	F0 Models
Length	15 ft. – 1 in.
Shipping Width	8 ft. – 6 in.
Operating Width with chilled water manifold	9 ft. – 6 in.
Height	7 ft. – 6 in.
Shipping Weight	8,730 lb
Operating Weight	9,055 lb
Fork Pocket Dimensions	9.5 in. × 6 in.
Center to Center Distance of Fork Pockets	42 in.

Note: Lifting Device: Forklift or Crane.



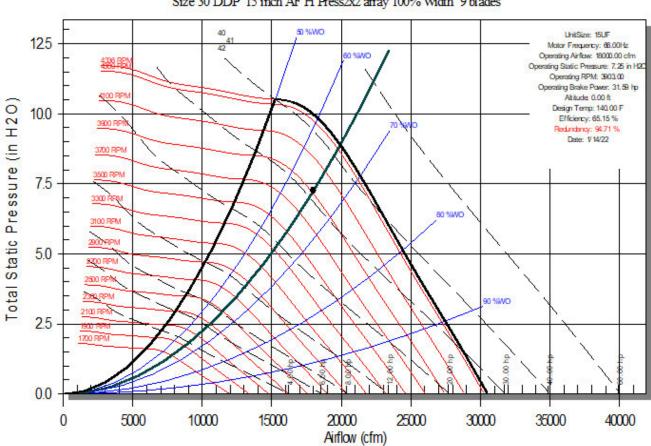
Table 52. Operating clearances

Labels	F0 Models
Sides	48 in.
End (Control Panel/Supply)	48 in.

Table 52. Operating clearances (continued)

Labels	F0 Models
End (Return)	36 in.
Тор	N/A

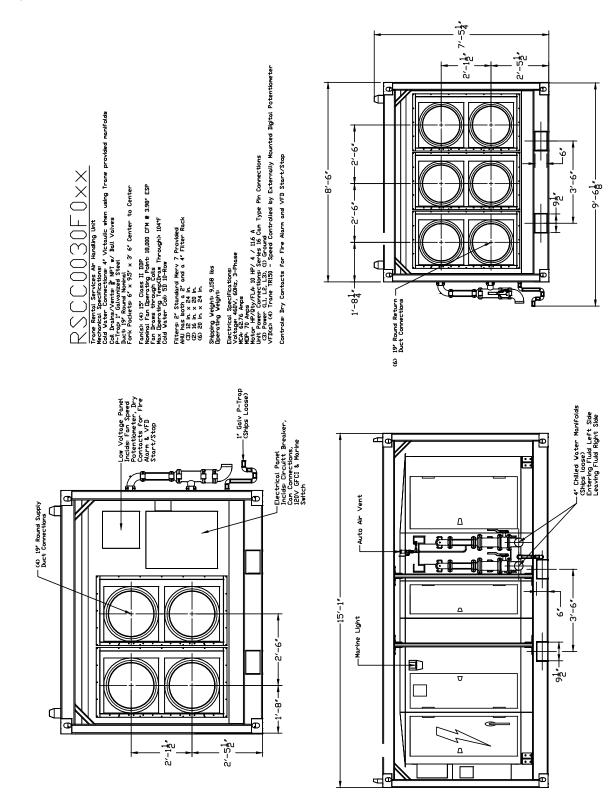
Figure 23. RSCC0030F0 supply fan curve



Supply Size 30 DDP 15 inch AF H Press2x2 array 100% Width 9 blades



Figure 24. RSCC0030F0 submittal





Electrical Information RSAU0010F0 - F1 Style AHUs

Each AHU has a main circuit breaker disconnect switch for over-current protection mounted external to F0 models and internal to F1 models that are rated for outdoors. The 5,000 cfm F0 - F1 model units have unit mounted 50 feet long # 8/4 AWG electrical cables. See Figure 25, p. 36.

Figure 25. Unit mounted pigtail power cable - F1 Model



RSAU0010F2 Style AHUs

Each AHU has a main circuit breaker disconnect switch for over-current protection mounted internal to each unit in an outdoor rated access door panel (see Figure 26, p. 36).

Figure 26. Internally mounted circuit breaker



The RSAU0010F2 style AHU has a removable disconnect handle that ships unattached inside each unit externally to allow enough clearance to fit through a standard doorway (see Figure 27, p. 36).

Figure 27. Removable disconnect handle



The 5,000 cfm F2 model units have two sets of Series 16 cam type power supply receptacles. One set shall be utilized for incoming power supply and the second set to accommodate daisy-chaining power (see Figure 28, p. 36) supply connections to same style F2 model air handlers.

Figure 28. Input/Output cam type receptacles



RSAU0025-50-62 F1 Style AHUs

Each AHU has an external fused disconnect (Figure 29, p. 37). In addition to the external fused disconnect, each unit has a circuit breaker inside the control cabinet (Figure 30, p. 37).

Each 10,000 cfm unit is provided with a minimum of 50-feet of #8/4 600 volt electrical cable connected to the external fused disconnect. Each 20,000 cfm and 25,000 cfm unit is provided with a minimum of 50 feet of #4/4 600 volt electrical cable connected to the external fused disconnect.

RSAU0025-50-62 F2 Style AHUs

Each AHU has an externally mounted Nema 4 main disconnect provided with internal circuit breaker (Figure 31, p. 37). In addition to the externally mounted circuit breaker, each VFD has its own drive disconnect switch inside the drive cabinet in order to isolate the drives if needed (Figure 32, p. 37).

Each F2 style AHU is setup to accept Series 16 cam type receptacles only and does not have an option for hard wired connections (Figure 33, p. 37).



Figure 29. Fused disconnect



Figure 30. Internal circuit breaker

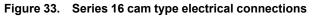


Figure 31. Externally mounted disconnect with circuit breaker



Figure 32. Drive mounted disconnects









RSCC0030F0 Style AHUs

Each AHU has a main circuit breaker disconnect switch externally mounted in a NEMA 4 enclosure for over-current protection to each unit (see Figure 34, p. 38).

Figure 34. Externally mounted circuit breaker



Each unit has two sets of Series 16 cam type power supply receptacles. One set shall be utilized for incoming power

supply and the second set to accommodate daisy-chaining power (see Figure 35, p. 38) supply connections to same style model air handlers.

Figure 35. Input/Output cam type receptacles





Piping Connection Configuration

RSAU0010F0 - F2

5,000 cfm air handler models have one supply and one return water line connections with 2.5-inch Victaulic connections used with Trane Rental Services 2.5-inch standard water hose.





Figure 37. RSAU0010F1 - Victaulic water lines



Figure 38. RSAU0010F2 - Victaulic water lines



RSAU0025F1

- Piping manifolds have been added to bring water connections to a more convenient elevation.
- There are two separate manifolds for the chilled and hot water coils. For identification, the hot water piping has been painted red.

RSAU0050F1

- To provide a single chilled water connection point and a single hot water connection point for each 20,000 cfm air handling unit, a piping manifold has been made to connect each of the unit chilled water and hot water coils.
- Each 20,000 cfm unit has a manifold permanently installed on the unit for easy piping connection (Figure 39, p. 40).
- For identification purposes, the chilled water piping has been painted grey and the hot water piping has been painted red.

Figure 39. RSAU0050F1 piping manifold



RSAU0062F1

- Multiple coils need to be manifolded together in order to connect with a single water connection.
- The unit is supplied with manifolds for both the hot and cold water coils.
- Due to shipping restrictions, these manifolds ship loose in the discharge section of the unit and must be field installed.
- Due to variances in header locations, the cooling coil manifolds are not interchangeable.
- Each is labeled with two, four letter codes.
- The first four letters (F1AO, for example) correspond to the last four letter of the AHU identifying stencil.
- The second set of four letters designates where the piece should be installed on that unit. For example, TLFT indicates it should be installed in the upper left position. The labels are painted onto each pipe in the cooling coil manifolds. See Figure 40, p. 40.

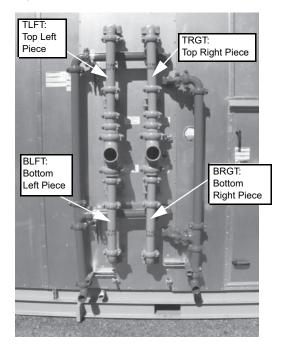
Table 53. Bill of material for RSAU0062F1 unit piping manifold

Qty	Description				
Chilled	d Water Manifolds				
30	2.5 in. Coupling				
4	2.5 in. Elbow				

Table 53. Bill of material for RSAU0062F1 unit pipingmanifold (continued)

Qty	Description					
Chilled Water Manifolds						
4	2.5 in. Tee					
4	2.5 in. × 4 in. Reducer					
2	4 in. Tee					
4	4 in. Couplings					
8	2.5 in. pipes of 3.25-in. nominal length					
2	2.5 in. pipes of 16-in. nominal length					
2	2.5 in. pipes of 15-in. nominal length					
2	2.5 in. pipes of 3.5-in. nominal length					
Hot Wa	ter Manifolds					
4	1.5 in. Elbow					
8	1.5 in. Coupling					
4	1.5 in. × 2.5 in. Reducer					
4	2.5 in. Elbow					
2	2.5 in. Tee					
14	2.5 in. Coupling					
2	2.5 in. pipes of 19-in. nominal length					
2	2.5 in. pipes of 43-in. nominal length					
1	2.5 in. pipe of 20-in. nominal length					
1	2.5 in. pipe of 9-in. nominal length					

Figure 40. New 25k manifold callout





RSAU0025-50-62 F2

All F2 Style AHU cooling coils are configured with a single inlet and single outlet Victaulic water connection, refer to Figure 41, p. 41.

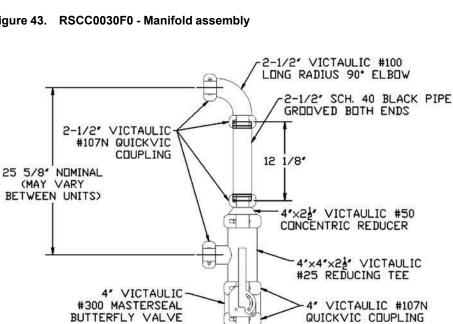
Figure 41. RSAU0062F2 Coil connection - Chilled water inlet shown in blue, chilled water outlet shown in red



RSCC0030F0

All RSCC0030 style air handler models ship with manifold assemblies that must be field installed to join two chilled

Figure 43. RSCC0030F0 - Manifold assembly



4' VICTAULIC #10 SHORT RADIUS 90° ELBOW water cooling coils in to one common hard-pipe header. To accommodate one 4-inch Victaulic supply and return waterline connection. Refer to Figure 42, p. 41 and Figure 43, p. 41 manifold assembly for more details.

Figure 42. RSCC0030F0 - Manifold coil connections



Table 54. Parts list - Chilled water manifold piping kit

Qty	Description					
Pipe and Hose						
2	4 in. Dia × 12 - 1/8 in. Sch. 40 Black Pipe(s) - Grooved Both Ends					
Couplings, Flanges,	and Elbows					
2	2.5 in. No.100 Victaulic Long Radius 90° Elbow(s)					
8	2.5 in.107N or 107V Victaulic Coupling(s)					
2	4 in. × 2.5 in. No.50 Victaulic Concentric Reducer(s)					
2	4 in. × 4 in. × 2.5 in. No.25 Victaulic Reducing Tee(s)					
2	4 in. No.300 Victaulic Lever Operated Butterfly Valve(s)					
2	4 in. No.10 Victaulic Short Radius 90° Elbow(s)					
6	4 in. 107N or 107V Victaulic Coupling(s)					



Duct Connection Configuration

RSAU0010F0 - F2

- RSAU0010F0 units have no discharge air duct connections.
- RSAU0010F1 units have two,19-inch diameter discharge air duct connections.
- RSAU0010F0 and F1 models do not have any return air duct connections and are designed for either 100 percent outside air or drawing air into the unit directly from the conditioned space.
- RSAU0010F2 units have one, 19-inch diameter discharge air and one, 19-inch diameter return air connections.

RSAU0025F1

- Each unit has two, 19-inch diameter discharge air connections and three, 19-inch diameter return air connections.
- All of the discharge air connections and one of the return air connections have manual dampers to control airflow.
- The connections will accept one, 20-inch diameter flexible duct.
- In addition to the return duct connections, units have a louver panel for 100 percent outside air operation that may be used instead of the return air duct connections.
- A handle on the side of the unit (Figure 45, p. 43) controls the linked dampers: 100 percent outside air, 100 percent return air, or a combination of the two.

RSAU0050F1

- Each unit has four, 19-inch diameter discharge air connections and five, 19-inch diameter return air connections (Figure 44, p. 43).
- All four discharge air connections and two of the return air connections have manual dampers to control airflow.
- The connections were made to accept one, 20-inch diameter flexible duct.
- In addition to the return duct connections, these units have a louver panel for 100 percent outside air operation that may be used instead of the return air duct connections.
- A handle on the side of the unit (Figure 45, p. 43) controls the linked dampers: 100 percent outside air, 100 percent return air, or combination of the two.

Figure 44. RSAU0050F1 and RSAU0062F1 return air connections



Figure 45. Handle to control linked dampers



RSAU0062F1

- Each unit has four, 19-inch diameter discharge air connections and five, 19 inch diameter return air connections (Figure 41, p. 41).
- All four of the discharge air connections and two of the return air connections have manual dampers to control airflow.
- The connections were made to accept one, 20-inch diameter flexible duct.
- In addition to the return duct connections, these units have a louver panel for 100 percent outside air operation that may be used instead of the return air duct connections.
- A handle on the side of the unit (Figure 45, p. 43) controls the linked dampers: 100 percent outside air, 100 percent return air, or a combination of the two.

Refer to *Trane Rental Services Standard and High Temperature Flex Duct, Engineering Bulletin* (CHS-PRB004*-EN), for further information.



RSAU0025F2

- Each unit has two, 19-inch diameter discharge air connections and four, 19-inch diameter return air connections.
- All of the discharge air connections and all the return air connections have manual dampers to control airflow.
- The connections were made to accept one, 20-inch diameter flexible duct.
- In addition to the return duct connections, these units have a louver panel for 100 percent outside air operation to use instead of the return air duct connections.
- A handle on the side of the unit (Figure 45, p. 43) controls the linked dampers: 100 percent outside air, 100 percent return air, or a combination of the two.

RSAU0050F2

- Each unit has four, 19-inch diameter discharge air connections and six, 19-inch diameter return air connections.
- All four of the discharge air connections and all of the return air connections have manual dampers to control airflow.
- The connections were made to accept one, 20-inch diameter flexible duct.
- In addition to the return duct connections, these units have a louver panel for 100 percent outside air operation that may be used instead of the return air duct connections.
- The handle (Figure 45, p. 43) installed on the side of each unit must be utilized to allow 100 percent outside or return airflow to enter the unit.

RSAU0062F2

- Each unit has six, 19-inch diameter discharge air connections and six, 19-inch diameter return air connections.
- All of the discharge air connections and all of the return air connections have manual dampers to control airflow.
- The connections were made to accept one, 20-inch diameter flexible duct.
- In addition to the return duct connections, these units have a louver panel for 100 percent outside air operation that may be used instead of the return air duct connections.

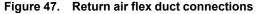
 A handle on the side of the unit (Figure 45, p. 43) controls the linked dampers: 100 percent outside air, 100 percent return air, or a combination of the two.

RSCC0030F0

- Each unit has four, 19-inch diameter discharge air connections and six, 19-inch diameter return air connections.
- These design sequence models do not have any manual dampers for restricting the airflow and do not have outside air louvers. Refer to Figure 46, p. 44 for the supply air discharge and Figure 47, p. 44 for the return air duct connection locations.

Figure 46. Discharge air flex duct connections









Controls Information RSAU0010 F0/F1/F2 Series

Rental AHUs (5,000 cfm) are equipped with a single VFD mounted inside the machine to control the speed of the fan. A unit mounted potentiometer is used to manually increase or decrease the speed of the fan. Refer to Table 55, p. 46 for available points on these machines.

RSAU0025, 50, 62 F1 and F2 Series

Rental AHUs (10,000, 20,000, and 25,000 cfm) with the F1 and F2 designator are equipped with either a single or dual Trane TR200 VFDs (Figure 48, p. 45) mounted in a control cabinet inside the unit. The VFDs are controlled by using a single digital potentiometer (Figure 49, p. 45) that is located in a weatherproof box mounted on the exterior of the unit, just above the disconnect. The digital potentiometer is used to manually increase or decrease the fan speed of the unit. For adjustment purposes, the number 0000 on the digital potentiometer represents the minimum fan setting 20 Hz, while 1000 represents 100 percent nominal airflow. Refer to Table 55, p. 46 for available points on these machines.

Figure 48. Trane TR200 VFD



Figure 49. Digital potentiometer



RSCC0030 AHU

Rental AHUs (18,000 cfm) are equipped with four Trane TR150 VFDs (Figure 38, p. 39) mounted in a control cabinet inside the unit. The VFDs are controlled by using a single digital potentiometer (Figure 39, p. 40) located on the outside of the main unit control panel. The control panel is mounted on the exterior of the machine just above the disconnect. Use the digital potentiometer to manually increase or decrease the fan speed of the unit. Refer to Table 55, p. 46

Figure 50. Trane TR150 VFDs







Table 55.	Rental AHU	controls	input/out	put points

Features		RSAU0010F0	RSAU0010F1	RSAU0010F2	RSAU0025F1	RSAU0025F2
Default Fan Speed Control		Turnpot	Turnpot	Turnpot	Turnpot	Turnpot
	BACnet [®]				x	х
	MODBUSMODBUS®			x	x	х
Fan Control and Feedback	Hardwired Start/Stop	х	x	x	x	x
	Hardwired Speed Reference	x	x	x	0-10VDC, 4-20mA	0-10VDC, 4-20mA
	Programmable Outputs (Binary + Analog)				x	x
	VFD Bypass			х		x
	Low-Limit Alarm				x	x
	Clogged Filter Switch				x	x
Sensor Outputs	Return Air Temp Sensor				1K RTD	1K RTD
	Supply Air Temp Sensor				1K RTD	1K RTD
	Differential Pressure Transducer				4-20mA	0-10VDC, 4-20mA
	Condensate Overflow	х	x	x		
Features		RSAU0050F1	RSAU0050F2	RSAU0062F1	RSAU0062F2	RSCC0030F0
Default Fan Speed Control		Turnpot	Turnpot	Turnpot	Turnpot	Turnpot
	BACnet [®]	х	x	x	х	x
Fan Control and Feedback	MODBUS®	х	x	x	х	x
	Hardwired Start/Stop	х	х	x	х	х
	Hardwired Speed Reference	0-10VDC, 4-20mA	0-10VDC, 4-20mA	0-10VDC, 4-20mA	0-10VDC, 4-20mA	x
	Programmable Outputs (Binary + Analog)	x	x	x	x	x
	VFD Bypass		х		х	х
Sensor Outputs	Low-Limit Alarm	x	x	x	x	
	Clogged Filter Switch	x	x	x	x	
	Return Air Temp Sensor	1K RTD	1K RTD	1K RTD	1K RTD	
	Supply Air Temp Sensor	1K RTD	1K RTD	1K RTD	1K RTD	
	Differential Pressure Transducer	4-20mA	0-10VDC, 4-20mA	4-20mA	0-10VDC, 4-20mA	

Note: Rental AHUs ship with turn potentiometer for simplified fan speed control and are not equipped with unit controllers. Contact Trane if more advanced controls integrations are desired.



Rigging Guidelines

General Lifting Considerations

A WARNING

Risk of Unit Dropping!

Failure to follow instructions below could result in death or serious injury, and equipment damage. Inspect the suspension and/or support system to ensure all fasteners are tight and the unit is secure before working underneath the unit.

A WARNING

Improper Unit Lift!

Failure to properly lift unit in a LEVEL position could result in unit dropping and possibly crushing operator/technician which could result in death or serious injury, and equipment or property-only damage.

Test lift unit approximately 24 inches (61 cm) to verify proper center of gravity lift point. To avoid dropping of unit, reposition lifting point if unit is not level.

A WARNING

Heavy Object!

Failure to follow instructions below could result in unit dropping which could result in death or serious injury, and equipment or property-only damage. Be careful when lifting the heat pump. Use appropriate lifting tools.

NOTICE

Equipment Damage!

Premature skid removal could result in equipment damage.

Keep skid in place until unit is ready to set. Do not move the unit or subassembly without the skid in place as shipped from the factory.

Each AHU has forklift pockets and either an overhead lifting frame or base mounted lifting lugs (Figure 52, p. 47). Before unit lifting, refer to chapters "RSAU0010F0 - F1 AHU," p. 9 to "RSAU0062F2 AHU," p. 30 for unit dimensions and weights. Test the unit for proper balance before lifting.

- Lift sections using all lifting lugs or fork pockets provided.
- When hoisting the unit into position, use the proper rigging method, such as straps, slings, spreader bars, or lifting lugs for protection and safety.
- Make the loop of the sling parallel to the direction of airflow whenever possible.
- Each cable used to lift the unit must be capable of supporting the entire weight of the unit.
- Never lift units in windy conditions. Personnel should be positioned overhead and, on the ground, to guide the crane operator in positioning the sections.

Figure 52. RSCC0030F0 unit





Figure 53. RSCC0030F0 rigging detail

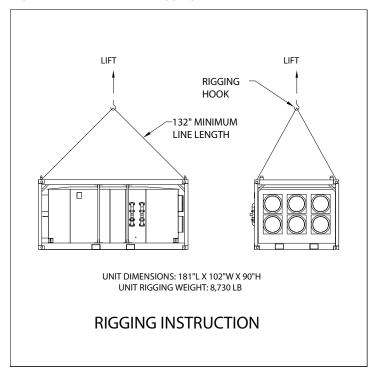
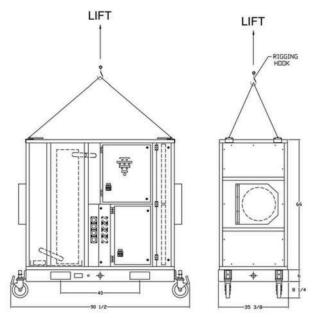


Figure 54. RSAU0010F2 rigging detail



Unit Dimensions: 90.5"L x 35.375"W x 80.25"H Unit Ship Weight: 2,000 lb

RIGGING INSTRUCTION



Installation and Start-Up Guidelines

In addition to the start-up guidelines below, refer to start-up information in the *Performance Climate Changer™ Air Handlers Model TCFS and TCPA Custom Air Handlers for Any Application Installation, Operation, and Maintenance* (CLCHSVX010*- EN) for RSAU0025, 50 and 62 Series AHUs and *Performance Climate Changer™ Air Handlers Model CSAA Indoor and Outdoor Units Sizes 3 to 120 Installation, Operation, and Maintenance* (CLCH-SVX07*- EN) for RSCC0030 Series AHUs.

A WARNING

Hazardous Voltage w/Capacitors!

Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury.

Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/ tagout procedures to ensure the power cannot be inadvertently energized. For variable frequency drives or other energy storing components provided by Trane or others, refer to the appropriate manufacturer's literature for allowable waiting periods for discharge of capacitors. Verify with a CAT III or IV voltmeter rated per NFPA 70E that all capacitors have discharged.

Installation

- Install piping manifold supplied with unit (if applicable) and ensure all temporary piping is properly secured. See "Piping Connection Configuration," p. 39.
- 2. Install the p-trap supplied with unit. The unit p-trap is located inside the machine in a bin mounted to the filter access door.

Notes:

- RSAU0010F0 F1 utilize condensate pumps and do not have p-traps.
- RSAU0010F2 has built-in p-traps and do not need the p-trap field installed.
- RSAU0010F2 units can utilize gravity feed p-trap or built-in condensate pump.

Determine whether condensate pump will be used and connect condensate drain piping accordingly.

- 3. Close all coil drains and open the valves and fill the system with fluid, checking for leaks. Bleed all air out of water system using field installed vales at high points in the system.
- 4. Install temporary supply ductwork and open manual dampers (if equipped).
- 5. For AHUs with return duct connections, install temporary return air ductwork.

- It is recommended that the number of return ducts exceeds the number of supply ducts by at least one where available. For example, if four supply ducts are used, five return ducts are recommended.
- For RSAU0025, 50, and 62 models, the return section consists of two separate louvers. One louver allows access to fresh air and the other louver is used in conjunction with return air.
- A single damper adjustment handle on the outside of the unit operate the dampers for both return and fresh air louvers. Closing the return air louver will open the fresh air louver and vice versa.
- Connect return ductwork to the duct connections without dampers first, then connect any additional return ducts on the bottom side of the plenum to the duct connectors with dampers.
- Confirm the power supply is de-energized and connect electrical cable from the rental unit to the building power supply. See "Electrical Information," p. 35 "Electrical Information," p. 36 for additional details on electrical connection types.

Start-Up

RSAU0010F0/F1

- 1. Confirm all personnel are in a safe location and all doors on AHU are closed and panels secured.
- 2. Energize power to the unit at the main power supply.
- 3. Energize unit disconnect switch.
- 4. Pull the emergency stop button.
- 5. Turn on/off switch on the outside of the starter panel to the On position.
- 6. Set blower speed by using the airflow adjustment potentiometer. Turn it clockwise to increase fan speed and counterclockwise to decrease fan speed.

RSAU0010F2

- 1. Confirm all personnel are in a safe location and all doors on AHU are closed and panels secured.
- 2. Energize power to the unit at the main power supply.
- 3. Energize unit circuit breaker (3CB) and confirm control power pushbutton light (1PL) is on.
- 4. Confirm proper phasing at rental unit.
- 5. Turn on airflow switch (1SW).
- 6. Open control electrical panel and turn blower switch (2SW) to required operating mode (VFD or bypass).
- 7. If using the on-board condensate pump to remove condensate from the machine, turn pump switch on.

8. Set blower speed by using the airflow adjustment potentiometer. Turn it clockwise to increase fan speed and counterclockwise to decrease fan speed.

RSAU0025, 50, and 62 F1 Series

- 1. Open VFD access door and confirm VFD disconnect switch (if equipped) is in the On position.
- 2. Confirm all personnel are in a safe location and all doors on AHU are closed and panels secured.
- 3. Energize power to the unit at the main power supply.
- 4. Energize unit disconnect.

Note: If equipped, confirm the red e-stop button located on the exterior of the VFD cabinet door is disengaged. If engaged, the fan will not run.

 Set blower speed by using the airflow adjustment potentiometer, located in the low voltage controls cabinet on the outside end of the AHU located near the unit disconnect. Turn it clockwise to increase fan speed and counterclockwise to decrease fan speed.

Notes:

- If AHU has a Trane TR200 VFD, operation mode must be set to hand mode for the potentiometer to control fan speed. Confirm mode at VFD faceplate.
- If AHU has a Trane TR150 VFD, operation mode must be set to auto mode for the potentiometer to control fan speed. Confirm mode at VFD faceplate.

RSAU0025, 50, and 62 F2 Series

- 1. Open VFD access door and confirm VFD disconnect switches are in the **on** position.
- 2. Select the operating mode (drive or bypass) on each drive selector switch.

Note: Both drives must be run in the same mode to prevent surging. It is recommended to run in Drive position for optimal performance.

- 3. Confirm all personnel are in a safe location and all doors on AHU are closed and panels secured.
- 4. Energize power to the unit at the main power supply.

- **Notes:** Using color coded cams connections as a guide, units should be phased as follows:
 - Black A
 - Red B
 - Blue C phases
- 5. Confirm proper phasing at unit prior to energizing unit disconnect.
- 6. Energize unit circuit breaker (1DSC1).
- Set blower speed by using the airflow adjustment potentiometer (SF1-2 potentiometer), located in the low voltage controls cabinet on the outside end of the AHU located near the unit disconnect. Turn it clockwise to increase fan speed and counterclockwise to decrease fan speed.

Note: Trane TR200 VFDs, must be in Auto for the potentiometer to control fan speed. Confirm mode at VFD faceplate.

RSCC0030F0

- 1. Confirm all personnel are in a safe location and all doors on AHU are closed and panels secured.
- 2. Energize power to the unit at the main power supply.
- Confirm proper phasing at unit prior to energizing unit disconnect.
- 4. Energize unit circuit breaker (4CB1).
- 5. Confirm proper phasing at unit prior to energizing unit disconnect.
- 6. Set unit fan switch (5S5) to the **hand** position. This switch is located on the outside of the low voltage control cabinet and will light up when turned on.
- 7. Open control cabinet and turn Fan 1, Fan 2, Fan 3 and Fan 4 switches (5S1, 5S2, 5S3, and 5S4) to **run** position to start the VFDs/Fans.

Note: All fans must be in the same mode Run or Bypass to prevent surging. It is recommended to operate fans in Run mode for optimal performance.

8. Set blower speed by using the airflow adjustment potentiometer (5R1). Turn it clockwise to increase fan speed and counterclockwise to decrease fan speed.



Maintenance Checklist

- Note: Refer to the Performance Climate Changer™ Air Handlers Model TCFS and TCPA Custom Air Handlers for Any Application Installation, Operation, and Maintenance (CLCH-SVX010*-EN).
- □ Carefully inspect lifting lugs for cracks or deformation.
- □ Check operation of manual supply and return dampers; also check condition of return plenum and supply/return duct collars for AHU models that have them.
- □ Verify p-trap, filter clips and air filters are present in the filter compartment. Replace filters as necessary.
- □ Carefully inspect coils, drains and vent valves, air bleeders and manifolds/hoses for damage.
- □ Check fan belts for signs of wear and replace as necessary for applicable AHU belt-driven models.

- □ Check fan motor/shaft bearings and grease as necessary (use Polyrex EM grease).
- □ Check fans for proper rotation and for excessive bearing noise.
- With fans running, verify proper operation of Magnahelic gauge.
- Monitor differential pressure across the unit filters using the pressure gauge mounted on the outside of the filter access door and change the filters, as necessary.
- Electrical No Power Applied : Tighten all accessible electrical connections. Repair/replace any burned, damaged, or loose wires.
- □ **Electrical No Power Applied** : Check Camlock connectors for signs of burning or damage.



Decommissioning Guidelines

Reference the following guidelines for decommissioning rental AHUs prior to their return at the end of a rental job. Contact Trane Rental Services for any additional information.

In conditions below freezing ambient temperatures, flush coil with antifreeze solution to ensure residual fluid cannot freeze. Contact Trane Rental Services if assistance is needed.

Notify Trane Rental Services if unit needs repair or has damage.

NOTICE

Equipment Damage!

Failure to protect the unit from freezing could result in equipment damage for which the customer will be liable.

Trane Rental AHU units are prone to freeze damage caused by cold ambient temperatures. Refer to the Trane Rental Services Freeze Protection Policy referenced in the rental agreement

Hazardous Voltage w/Capacitors!

Failure to disconnect power and discharge capacitors before servicing could result in death or serious injury.

Disconnect all electric power, including remote disconnects and discharge all motor start/run capacitors before servicing. Follow proper lockout/ tagout procedures to ensure the power cannot be inadvertently energized. For variable frequency drives or other energy storing components provided by Trane or others, refer to the appropriate manufacturer's literature for allowable waiting periods for discharge of capacitors. Verify with a CAT III or IV voltmeter rated per NFPA 70E that all capacitors have discharged.

RSAU0010F0/F1

- 1. Turn **on/off** switch on the outside of the starter panel **off**.
- 2. Allow fan to fully stop prior to opening any unit access doors.
- 3. De-energize unit disconnect switch.
- 4. De-energize power to the unit at the main power supply.
- 5. Open all coil drains.
 - Confirm the machine is level or tilted toward the water connections.
 - Open all drains and vents, confirm fluid is draining freely. Check drain for restrictions if necessary.

- Collect and dispose of drained fluid in accordance with applicable environmental laws and regulations.
- Leave unit drains open until there is no more fluid coming out. This could take up to an hour or more. Do not relocate or release the unit for shipment until unit draining is complete.
- 6. Remove all external piping/ hoses, and duct work. Pack accessories in the associated compartments and bins.

RSAU0010F2

- 1. Turn airflow switch (1SW) on the outside of the starter panel **off**.
- 2. Allow fan to fully stop prior to opening any unit access doors.
- 3. De-energize unit circuit breaker (3CB).
- 4. De-energize power to the unit at the main power supply.
- 5. Open all unit drain valves.
 - Confirm the machine is level or tilted toward the water connections.
 - Open all drains and vents, confirm fluid is draining freely. Check drain for restrictions if necessary.
 - Collect and dispose of drained fluid in accordance with applicable environmental laws and regulations.
 - Leave unit drains open until there is no more fluid coming out. This could take up to an hour or more. Do not relocate or release the unit for shipment until unit draining is complete.
- 6. Remove all external piping/ hoses, and duct work. Pack accessories in the associated compartments and bins.
- 7. Close all duct doors and confirm all access doors are properly closed.

RSAU0025, 50 and 62 F1 Series

- 1. Turn airflow adjustment potentiometer all the way down and allow fan to reach minimum speed.
- 2. De-energize unit disconnect switch.
- De-energize power to the unit at the main power supply.
- 4. Open all unit drain valves.
 - Confirm the machine is either level or tilted toward the water connections.
 - Open all drains and vents, confirm fluid is draining freely. Check drain for restrictions if necessary.
 - Collect and dispose of drained fluid in accordance with applicable environmental laws and regulations.
 - Leave unit drains open until there is no more fluid coming out. This could take up to an hour or more.

Decommissioning Guidelines

Do not relocate or release the unit for shipment until unit draining is complete.

5. Remove all external piping/ hoses, and duct work. Pack accessories in the associated compartments and bins.

Note: RSAU0062 AHU manifolds must be removed and stored in filter cabinet prior to shipment.

6. Close all duct dampers and confirm all access doors are properly closed.

RSAU0025, 50 and 62 F2 Series

- 1. Turn airflow adjustment potentiometer all the way down and allow fan to reach minimum speed.
- 2. De-energize unit disconnect switch.
- 3. De-energize power to the unit at the main power supply.
- 4. Open all unit drain valves.
 - Confirm the machine is either level or tilted toward the water connections.
 - Open all drains and vents, confirm fluid is draining freely. Check drain for restrictions if necessary.
 - Collect and dispose of drained fluid in accordance with applicable environmental laws and regulations.
 - Leave unit drains open until there is no more fluid coming out. This could take up to an hour or more. Do not relocate or release the unit for shipment until unit draining is complete.
- 5. Remove all external piping/ hoses, and duct work. Pack accessories in the associated compartments and bins.
- 6. Close all duct dampers and confirm all access doors are properly closed.

RSCC0030F0

- 1. Set unit fan switch (5S5) to off.
- Allow fans to fully stop prior to opening any unit access doors.
- 3. De-energize unit circuit breaker (4CB1).
- 4. De-energize power to the unit at the main power supply.
- 5. Open all unit drain valves.
 - Confirm the machine is either level or tilted toward the water connections.
 - Open all drains and vents, confirm fluid is draining freely. Check drain for restrictions if necessary.
 - Collect and dispose of drained fluid in accordance with applicable environmental laws and regulations.
 - Leave unit drains open until there is no more fluid coming out. This could take up to an hour or more. Do not relocate or release the unit for shipment until unit draining is complete.
- Remove all external piping/ hoses, and duct work. Pack accessories in their associated compartments and bins.

Note: AHU manifolds must be removed and stored in filter cabinet prior to shipment.

7. Close all duct doors and confirm all access doors are properly closed.

Recommended Shutdown

- 1. In extreme cold conditions, flush coil with antifreeze solution to ensure residual fluid cannot freeze. Contact Trane Rental Services if assistance is needed.
- 2. Remove all temporary ductwork and close manual dampers or doors.
- 3. Disconnect electrical cable supplied with the unit from the power supply.
- 4. Confirm all access doors are properly closed.
- 5. Return additional hose, fittings, or cable (if furnished by Trane Rental Services) to appropriate containers for return shipment.
- 6. Notify Trane Rental Services if unit needs repair or has damage.





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