Product Catalog

Trane Rental Services

Temporary Water-Cooled Chillers



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TEMP-PRC009B-EN

Introduction

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Revision History

Updated RSCW1000F1AV – RSCW1000F1CF section in 225 to 1000 Tons CVHF chapter.

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Applications Considerations – Water-Cooled

Ambient Limitations

Table 1. Ambient limitations

Model	Ambient Temperature Range
CVHF/CVHE	34°F to 104°F
RTHD	32°F to 104°F

Note: For a rental application with ambient temperatures above or below this range, contact Trane Rental Services (TRS) for more information on this topic.

Installation

It is recommended that when performing installation of a water-cooled chiller hard pipe (PVC) be used between the outlet side of the cooling tower and the suction side of the pump. Rental services flexible hose should not be used to avoid collapsing due to any negative internal pressure. All water-cooled chillers must be level within 1/16-inch from end to end.

Electrical Connections

Water-cooled style chillers are configured for single point power. Each chiller comes with a unit mounted Wye-Delta starter. In addition to connecting main power through this panel there are also 115V shore power receptacles. All F0 and F1 series CenTraVac chillers include two shore power receptacles. One receptacle is dedicated to the purge and the other provides power to unit controls and oil heater. All F2 series CenTraVac chillers include one 115V shore power receptacle to power purge, unit controls, and oil heaters. All RTHD chillers include one 115V shore power receptacle to power unit controls and oil sump heaters. These connections are required only when 460V 3-phase power is not available. The purpose is to energize oil sump heater which is required to boil refrigerant out of the oil 24 hours prior to start-up regardless of ambient temperature.

Water Flow Limits

The minimum and maximum water flow rates are available chiller data tables. The flow rate through the evaporator is validated against the water pressure drop curves in this document. Evaporator flow rates below the minimum flow of the chiller will result in laminar flow causing freeze up problems, scaling, stratification, and poor control. Flow rates exceeding those listed may result in very high pressure drop across the evaporator and excessive tube erosion.

Leaving Water Temperature Limits

Table 2. Leaving water temperature limits

Model	Leaving Water Temperature Range
CVHF/CVHE	40°F to 60°F
RTHD	10°F to 65°F

Note: Under certain conditions, leaving water temperatures below 40°F are possible for CVHF/CVHE models. Please contact TRS Engineering for a performance selection for verification.

All TRS CenTraVac chillers are ordered at AHRI conditions:

Table 3. Entering and leaving water temperatures

	Temperature		Flow Rate
	Entering Water	Leaving Water	
Evaporator Side	54°F	44°F	2.4 gpm/ton
Condenser Side	85°F	95°F	3.0 gpm/ton

Actual tonnage delivered will vary when operated at other sets of conditions. It is highly recommended to contact rental services to verify performance for anything outside of AHRI conditions listed above.

Clearance Requirements

Adequate clearance around and above the chiller are required to allow sufficient access for service and maintenance operations. Per NEC Article 110: Unit Mounted starters from 0 to 600V require a 42-inch (106.68 cm) clearance.

Pump Control

Trane Rental Services CenTraVac units have integral evaporator and condenser water pump relay outputs and are capable of controlling both water loops. RTHD style chillers do not have pump control capability. For more information on how to establish wiring connections, see CenTraVac wiring diagrams.

Note: *The chilled water pump must not be used to stop the chiller.*

CentraVac Chillers - Inspection Checklist

- Verify against Bill of Lading the Nitrogen charge from the **shipping from** location matches when it arrives at the site

  Note: *If pressure does not match against Bill of Lading it is a good indication there is a gas leak within the unit. Contact Trane Rental Services if this is the case.*

- A refrigerant container will be shipped separately from the rest of the equipment.

  Note: *R-123 and R-514A at ambient conditions will be in liquid state. Logistically it's safer to ship a unit with refrigerant in gas form.*

- Weigh the refrigerant canister prior to charging unit.
- Charge the unit before running any water through the system.
- Some 750 and 1000 ton CenTraVac units are shipped with steel dropdown pipes for the condenser. When installed the water connections will be at a serviceable elevation.
- Flow switches, temperature, and pressure differential gauges are shipped with manifolds to be used for both evaporator and condenser loops.

Refrigerant Charge

Commissioning

Rental CentraVac chillers ship with a nitrogen holding charge. This charge should be between 4 to 7 psi. Remove the nitrogen holding charge from the chiller and place it into a vacuum. Once in a vacuum, charge the chiller with the appropriate amount of refrigerant.

Decommissioning

When decommissioning, all refrigerant must be recovered from the unit. A nitrogen holding charge between 4 to 7 psi must be added to the chiller before it ships back from the jobsite.

Freeze Protection

- For the evaporator, verify there is continuous flow and/or glycol and/or heat trace equipment.
- For the condenser, verify there is continuous flow, heat trace, basin heaters and tower loop controls (bypass).
- As a result of low chilled water setpoints at or below 36°F (2.2°F) for CentraVac, 39°F (3.9°C) for RTHD, glycol or other antifreeze solution must be used. Contact TRS Engineering for more information on glycol percentage recommendations.

Controls

All TRS style chillers are provided with Trane's standard Tracer AdaptiView™ or CH530 display designed to be weatherproofed and made of durable plastic for use as an outdoor device. These interfaces allow the user to access any important information concerning setpoints, active temperatures, modes, electrical data, pressure and diagnostics.

CenTraVac style chillers also do have external limit setpoints as well as external chilled water setpoint inputs that accept either 4 to 20 mA or 2 to 10 Vdc signals. This allows for remote flexibility to meet job requirements while not having to learn a complicated control system. The Kestrelview™ service tool must be used to set the input signal type from the factory default from 2 to 10 Vdc to that of 4 to 20 mA current. This tool must also be used to enable or disable the feature if installed. RTHD

style chillers have factory installed, programmable relays. Operator has ability to select four from list of eight possible relay outputs.

List of possible relays:

- Alarm latching
- Alarm auto reset
- General alarm
- Warning
- Chiller limit mode
- Compressor running
- Head pressure relief request
- Tracer® control

BACnet® and LonTalk® interface are also available with these chillers. Contact TRS to verify which interface is installed within the chiller.

225 to 1000 Tons CVHF

225 Ton Water-Cooled

CSCW0225F0AA

Table 4. General data

Labels	Value
Nominal Tons	225
Refrigerant	R-123
Refrigerant Charge	550 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	57 Tons
Evaporator Min/Max Flow (GPM)	124/893
Condenser Min/Max Flow (GPM)	296/1,080
Evap Water Volume	55 Gal
Cond Water Volume	68 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 5. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	241 A
Maximum Overcurrent Protection (MOP)	400 A
Run Load Amps (RLA)	186 A
Starter Type	Star/Wye-Delta
LRAY	407 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 6. Dimensions and weights

Labels	Value
Length	19 ft. 9-in.
Width	6 ft. 3-in.
Height	9 ft. 2-in.
Shipping Weight	14,600 lbs
Operating Weight	16,724 lbs
Lifting Device	Crane

Table 7. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	34-in.
Either End	48-in.
Top	36-in.

Table 8. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
77	78	78	78

Table 9. Capacity table

Leaving Water Temp (Assumes 540 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 675 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	—	285	285	275	270	255
55°F	285	285	280	270	260	250
50°F	270	275	275	265	255	240
45°F	250	255	255	255	240	—
40°F	230	230	230	—	—	—

Figure 1. Evaporator PD curve

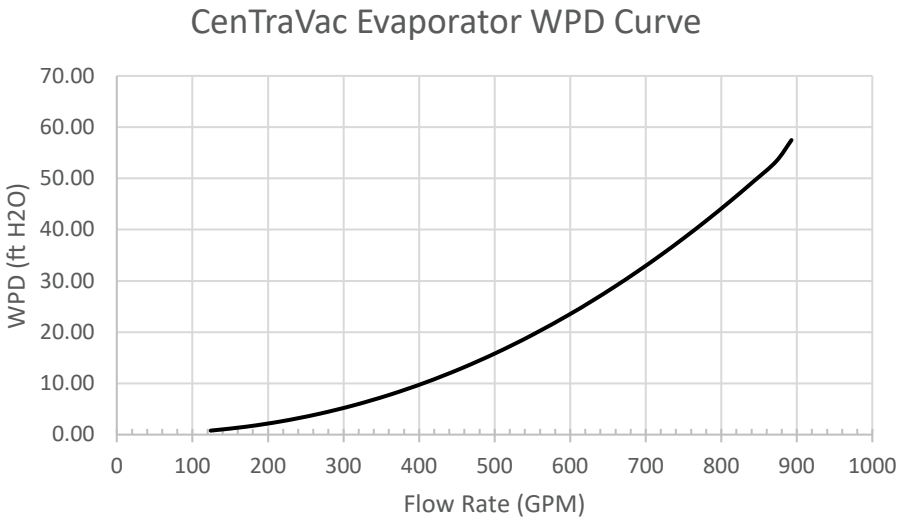


Figure 2. Condenser PD curve

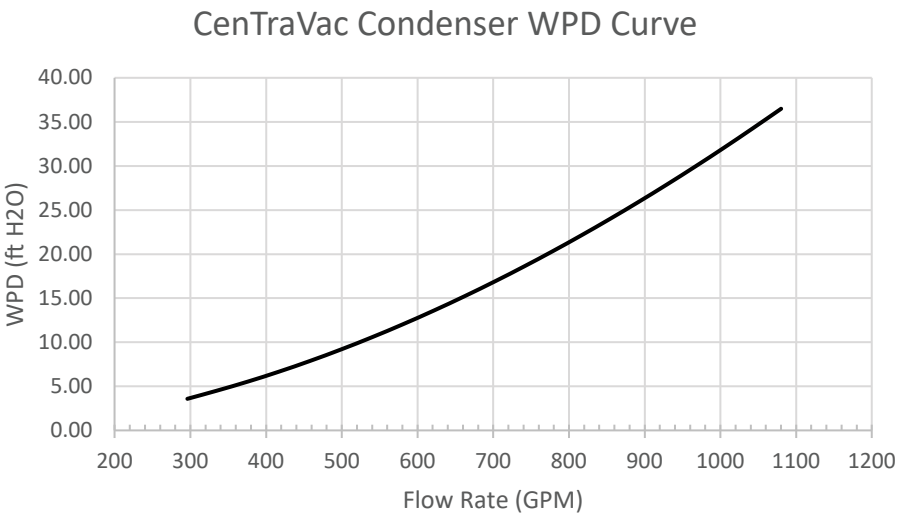
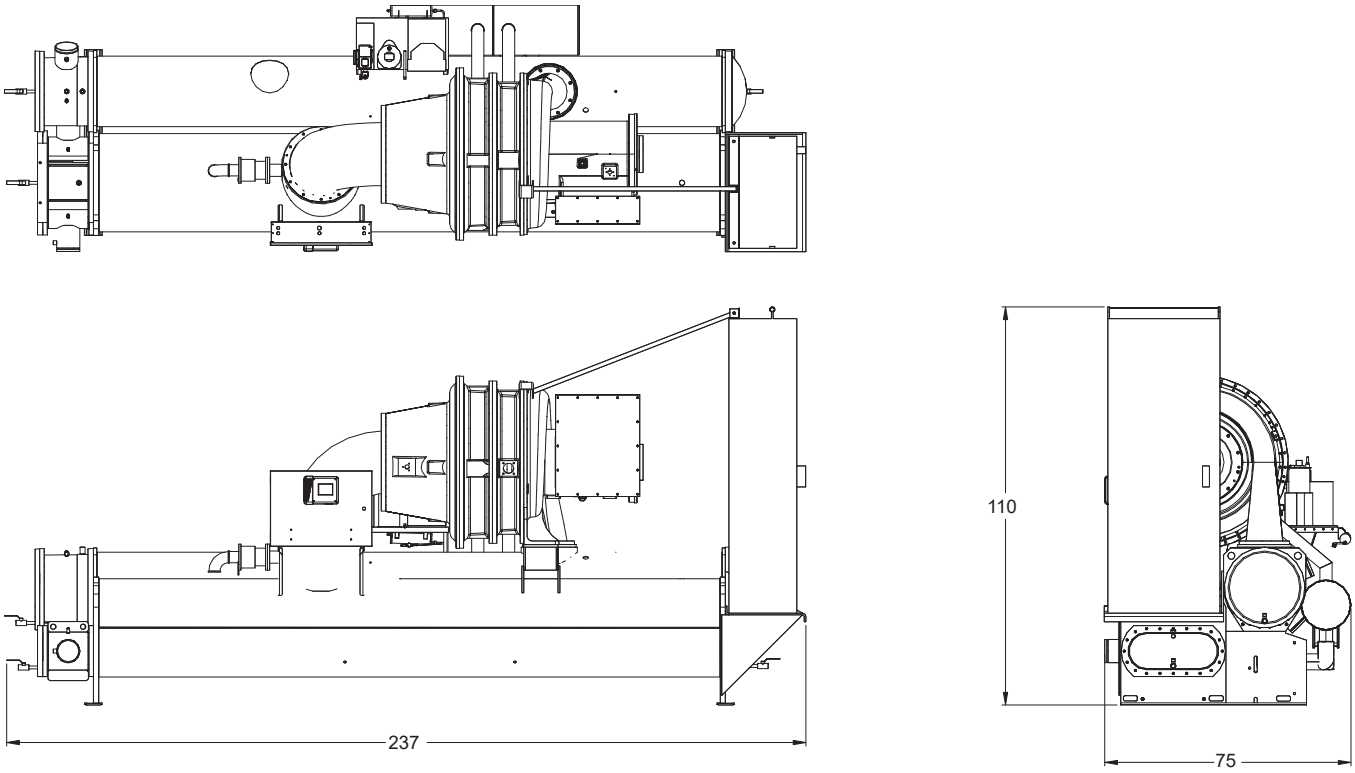


Figure 3. Unit drawings



CSCW0225F0AD and CSCW0225F0AE

Table 10. General data

Labels	Value
Nominal Tons	250
Refrigerant	R-123
Refrigerant Charge	550 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	57 Tons
Evaporator Min/Max Flow (GPM)	124/893
Condenser Min/Max Flow (GPM)	296/1,080
Evap Water Volume	55 Gal
Cond Water Volume	68 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.

[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 11. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	266 A
Maximum Overcurrent Protection (MOP)	450 A
Run Load Amps (RLA)	205 A
Starter Type	Star/Wye-Delta
LRAY	407 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 12. Dimensions and weights

Labels	Value
Length	20 ft.
Width	6 ft. 3-in.
Height	9 ft. 4-in.
Shipping Weight	14,600 lbs
Operating Weight	16,724 lbs
Lifting Device	Crane

Table 13. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	34-in.
Either End	48-in.
Top	36-in.

Table 14. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
77	78	78	78

Table 15. Capacity table

Leaving Water Temp (Assumes 540 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 675 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	—	285	285	285	279	267
55°F	285	285	285	281	271	257
50°F	275	277	277	275	259	241

Table 15. Capacity table (continued)

Leaving Water Temp (Assumes 540 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 675 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	253	253	255	255	231	—
40°F	233	233	233	—	—	—

Figure 4. Evaporator PD curve

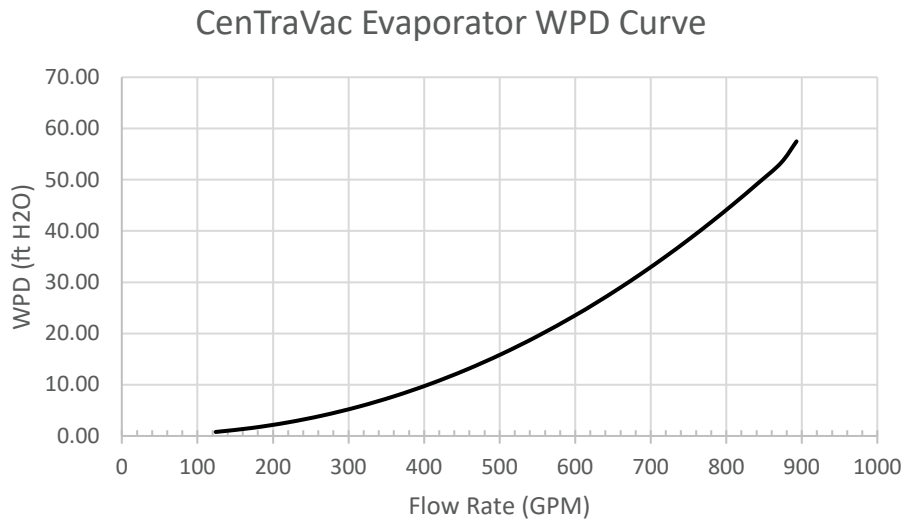


Figure 5. Condenser PD curve

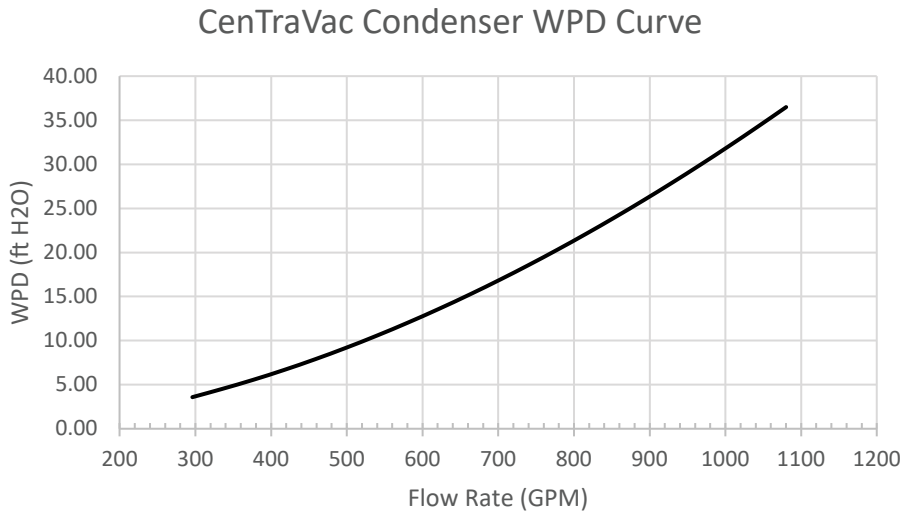
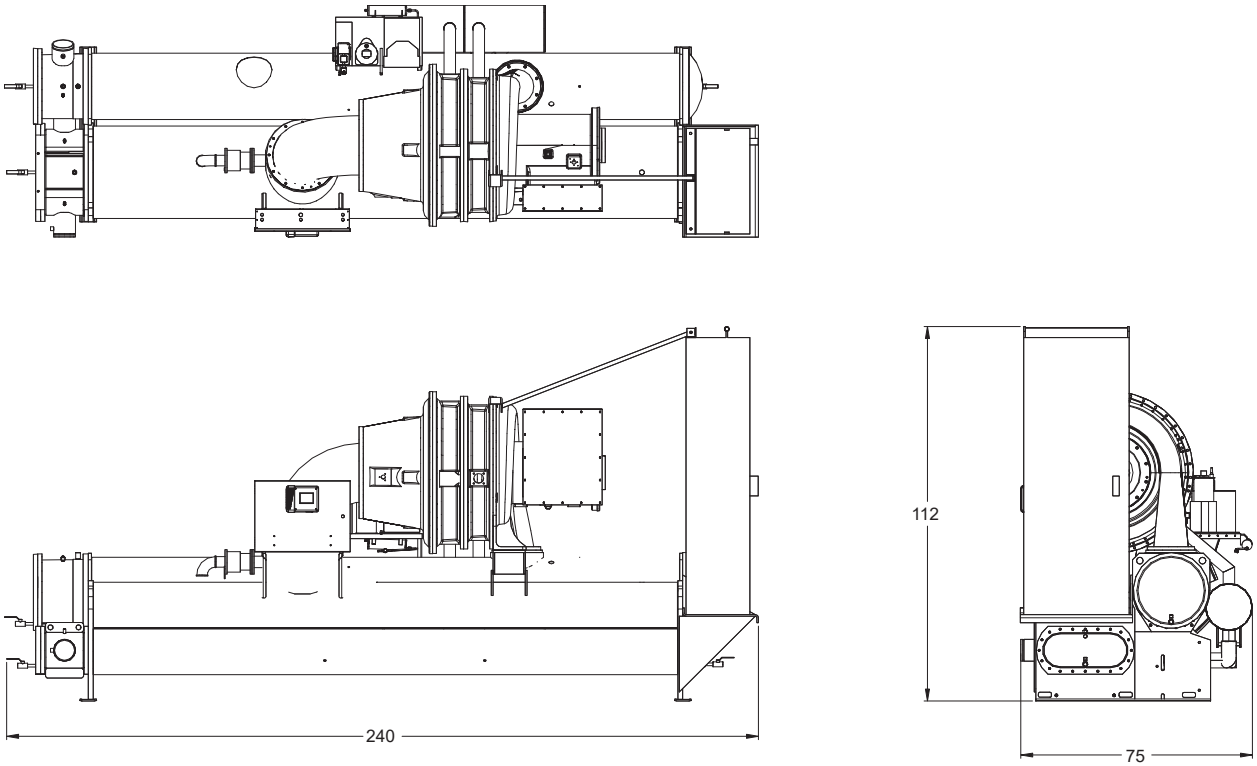


Figure 6. Unit drawings



CSCW0225F0AF

Table 16. General data

Labels	Value
Nominal Tons	250
Refrigerant	R-123
Refrigerant Charge	550 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	57 Tons
Evaporator Min/Max Flow (GPM)	124/893
Condenser Min/Max Flow (GPM)	296/1,080
Evap Water Volume	56 Gal
Cond Water Volume	68 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.

[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 17. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	261 A
Maximum Overcurrent Protection (MOP)	450 A
Run Load Amps (RLA)	201 A
Starter Type	Star/Wye-Delta
LRAY	407 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 18. Dimensions and weights

Labels	Value
Length	20 ft.
Width	6 ft. 10-in.
Height	9 ft. 8-in.
Shipping Weight	15,000 lbs
Operating Weight	16,621 lbs
Lifting Device	Crane

Table 19. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	34-in.
Either End	48-in.
Top	36-in.

Table 20. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
77	78	78	78

Table 21. Capacity table

Leaving Water Temp (Assumes 540 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 675 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	—	285	285	285	279	267
55°F	285	285	285	283	273	—
50°F	279	281	283	277	263	—

Table 21. Capacity table (continued)

Leaving Water Temp (Assumes 540 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 675 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	259	257	261	261	—	—
40°F	237	237	239	—	—	—

Figure 7. Evaporator PD curve

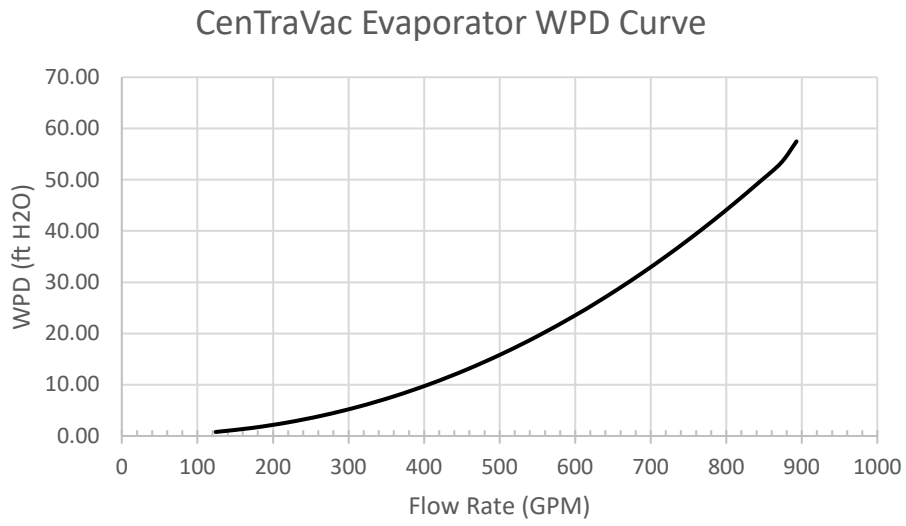


Figure 8. Condenser PD curve

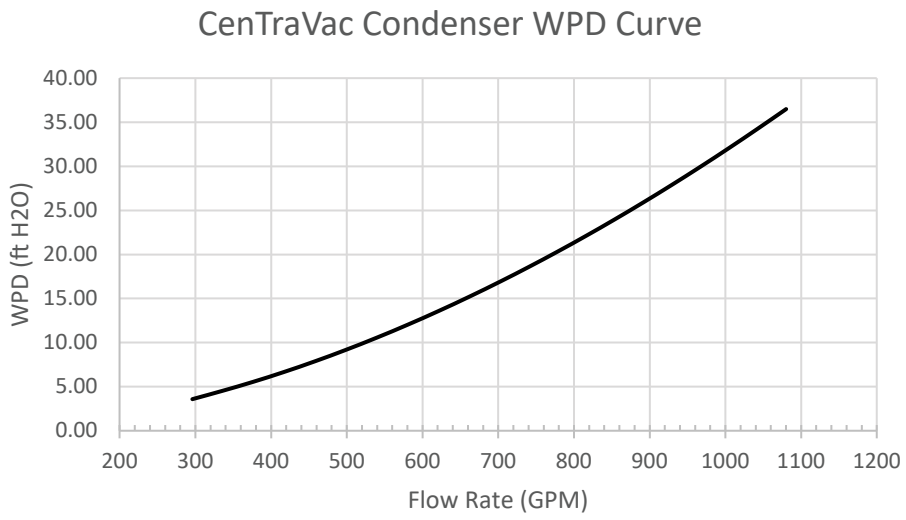
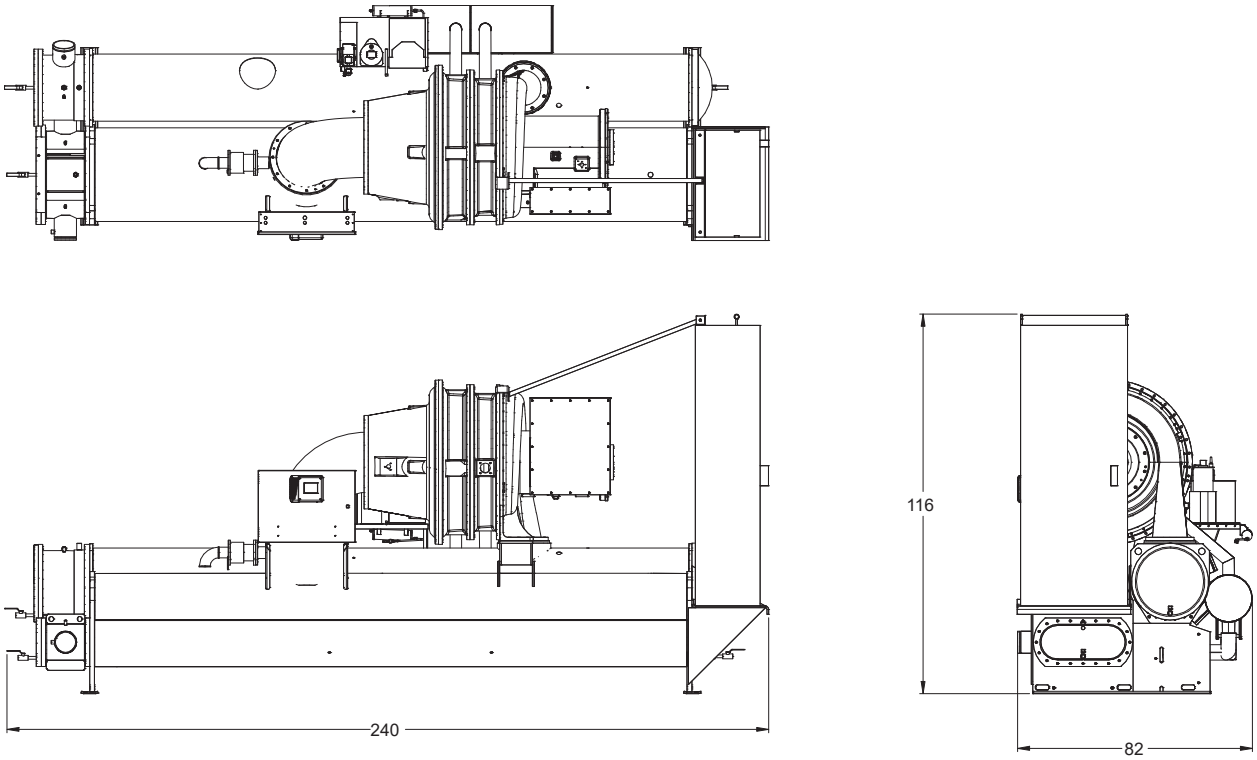


Figure 9. Unit drawings



350 Ton Water-Cooled

CSCW0350F0AB

Table 22. General data

Labels	Value
Nominal Tons	380
Refrigerant	R-123
Refrigerant Charge	750 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	88 Tons
Evaporator Min/Max Flow (GPM)	182/1,334
Condenser Min/Max Flow (GPM)	474/1,735
Evap Water Volume	88 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 23. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	423 A
Maximum Overcurrent Protection (MOP)	700 A
Run Load Amps (RLA)	330 A
Starter Type	Star/Wye-Delta
LRAY	624 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 24. Dimensions and weights

Labels	Value
Length	20 ft.
Width	7 ft. 6-in.
Height	9 ft. 6-in.
Shipping Weight	19,000 lbs
Operating Weight	21,513 lbs
Lifting Device	Crane

Table 25. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 26. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
79	78	79	81

Table 27. Capacity table

Leaving Water Temp (Assumes 840 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,050 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	506	506	506	484	458	432
55°F	472	472	474	468	440	410
50°F	434	436	438	438	414	384

Table 27. Capacity table (continued)

Leaving Water Temp (Assumes 840 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,050 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	400	402	402	398	362	—
40°F	368	368	364	330	—	—

Figure 10. Evaporator PD curve

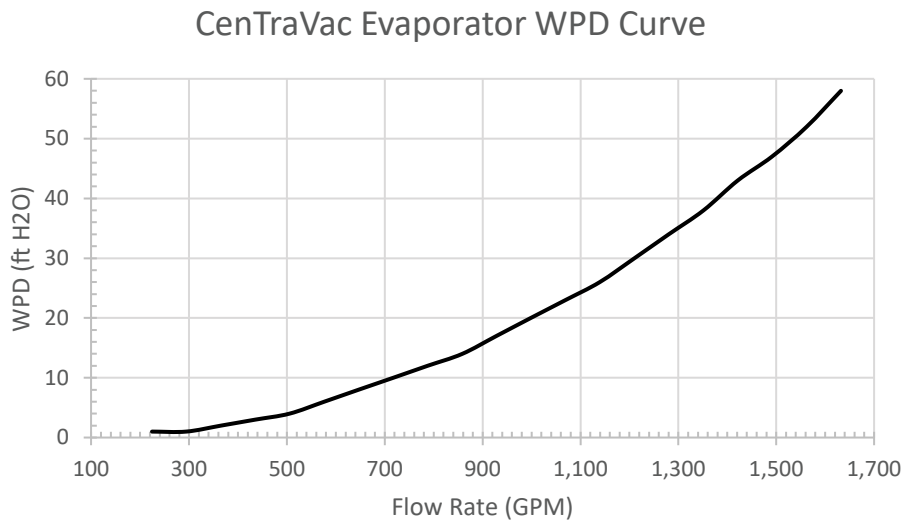


Figure 11. Condenser PD curve

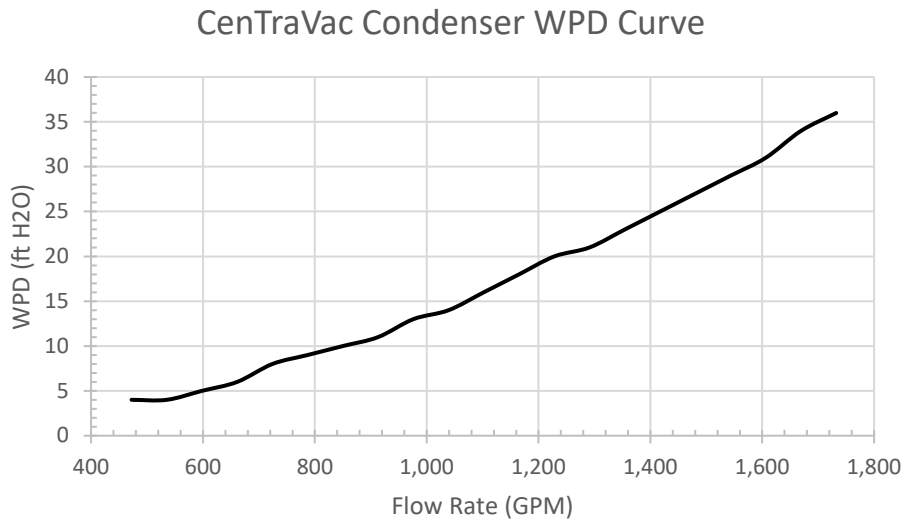
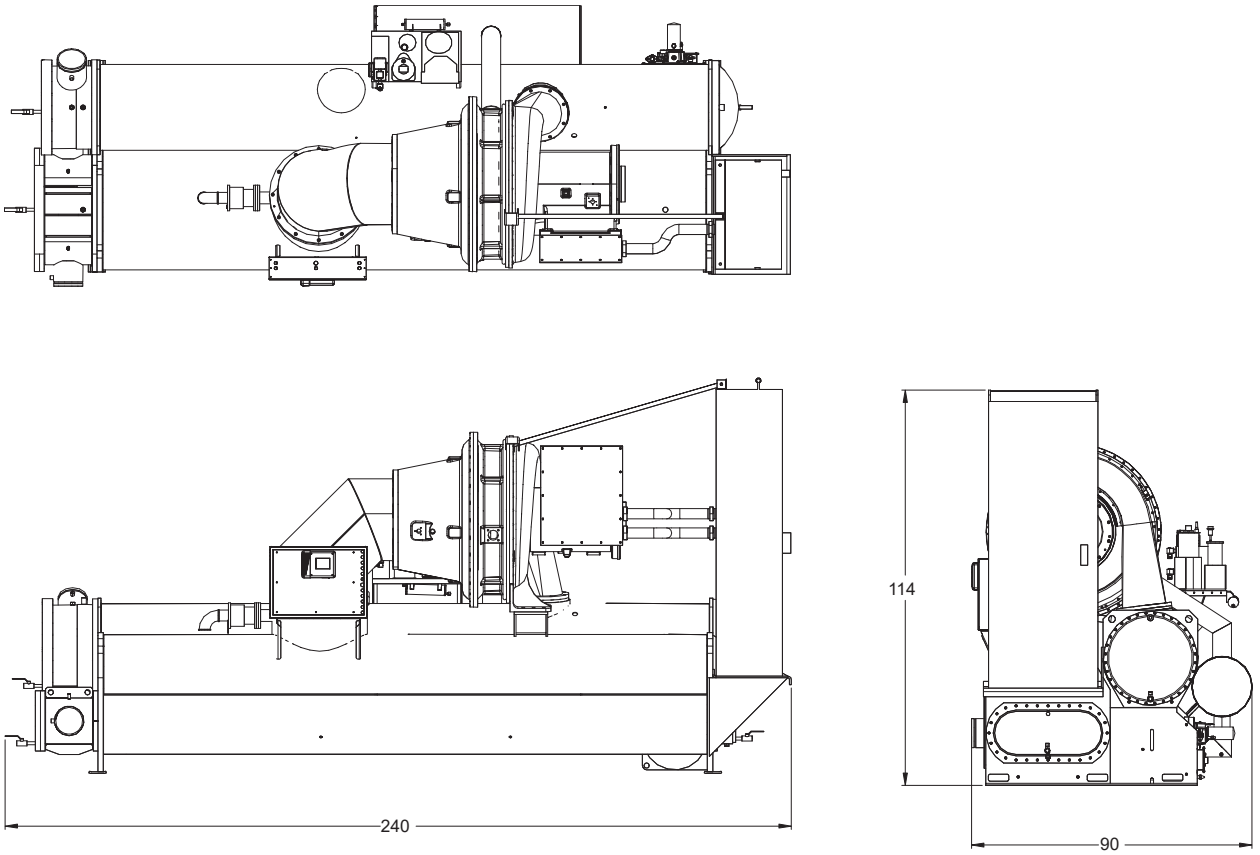


Figure 12. Unit drawings



CSCW0350F0AD

Table 28. General data

Labels	Value
Nominal Tons	385
Refrigerant	R-123
Refrigerant Charge	800 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	88 Tons
Evaporator Min/Max Flow (GPM)	220/1,614
Condenser Min/Max Flow (GPM)	473/1,735
Evap Water Volume	101 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 29. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	412 A
Maximum Overcurrent Protection (MOP)	700 A
Run Load Amps (RLA)	322 A
Starter Type	Star/Wye-Delta
LRAY	624 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 30. Dimensions and weights

Labels	Value
Length	20 ft.
Width	7 ft. 6-in.
Height	9 ft. 6-in.
Shipping Weight	18,827 lbs
Operating Weight	21,496 lbs
Lifting Device	Crane

Table 31. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 32. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
79	78	79	81

Table 33. Capacity table

Leaving Water Temp (Assumes 840 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,050 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	514	516	518	514	486	458
55°F	476	476	578	480	460	420
50°F	438	440	442	442	426	—

Table 33. Capacity table (continued)

Leaving Water Temp (Assumes 840 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,050 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	404	404	406	402	—	—
40°F	370	372	368	—	—	—

Figure 13. Evaporator PD curve

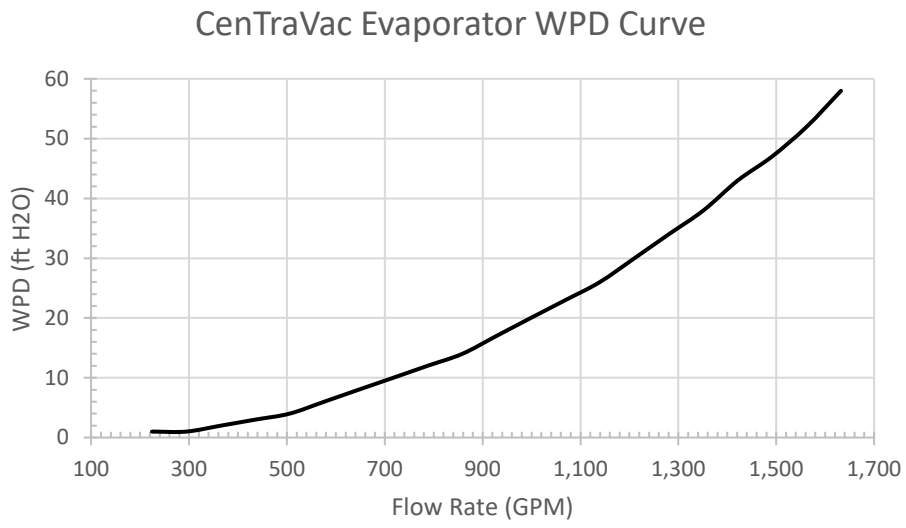


Figure 14. Condenser PD curve

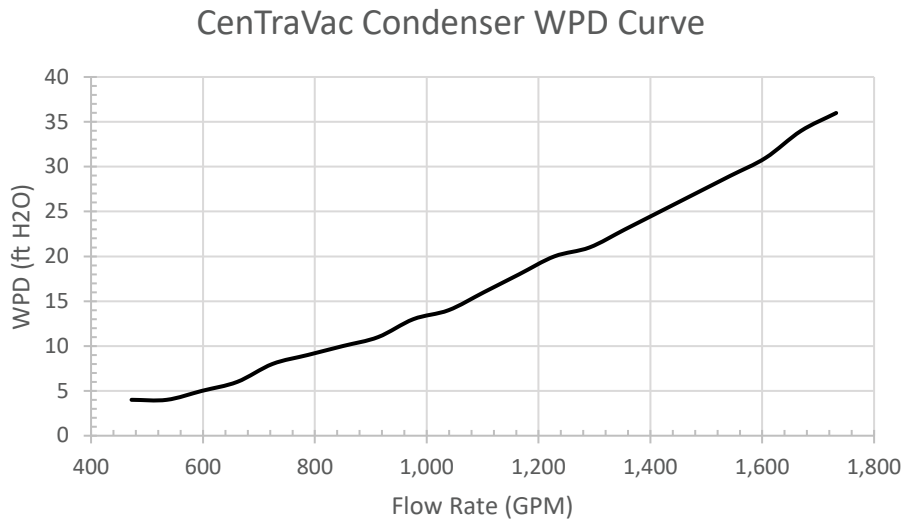
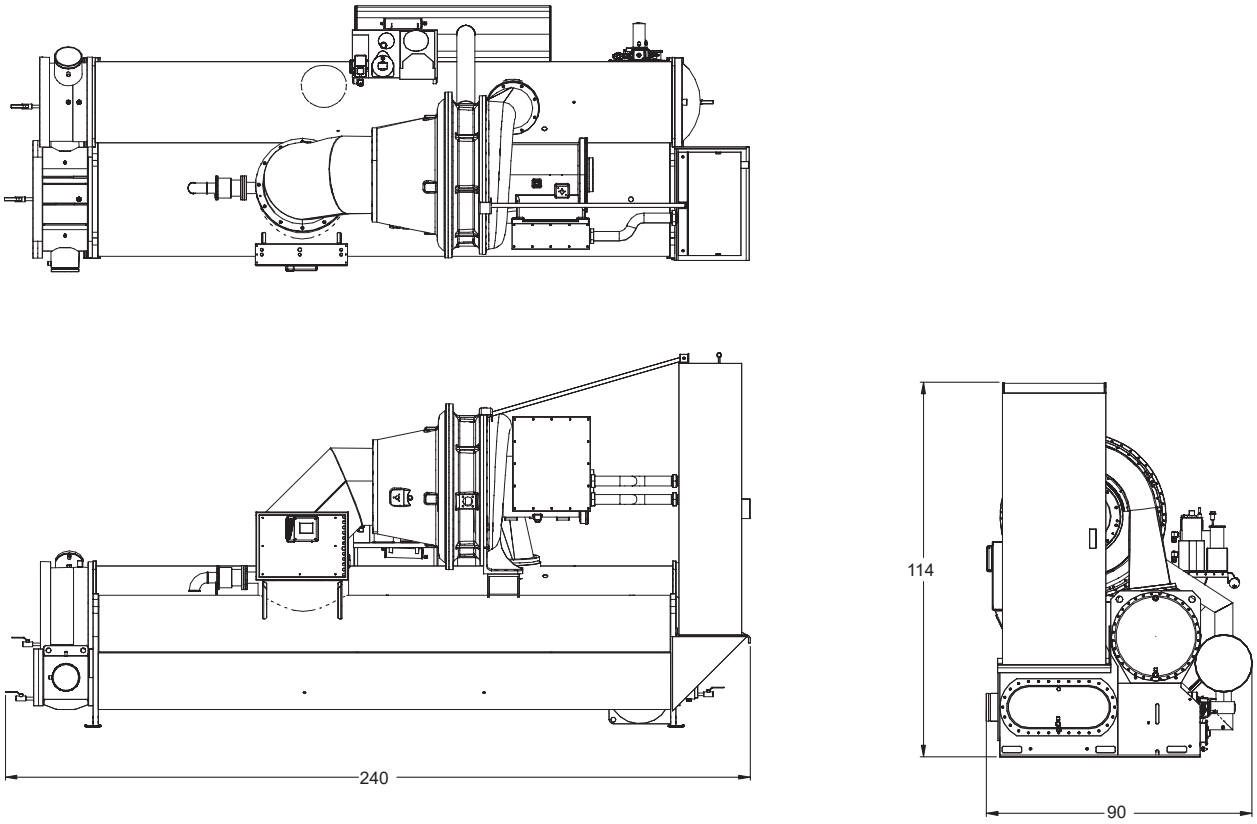


Figure 15. Unit drawings



CSCW0350F0AE

Table 34. General data

Labels	Value
Nominal Tons	385
Refrigerant	R-123
Refrigerant Charge	800 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	88 Tons
Evaporator Min/Max Flow (GPM)	224/1,632
Condenser Min/Max Flow (GPM)	472/1,732
Evap Water Volume	102 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 35. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	409 A
Maximum Overcurrent Protection (MOP)	700 A
Run Load Amps (RLA)	320 A
Starter Type	Star/Wye-Delta
LRAY	624 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 36. Dimensions and weights

Labels	Value
Length	20 ft.
Width	7 ft. 10-in.
Height	9 ft. 7-in.
Shipping Weight	18,855 lbs
Operating Weight	21,529 lbs
Lifting Device	Crane

Table 37. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 38. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
79	78	79	81

Table 39. Capacity table

Leaving Water Temp (Assumes 840 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,050 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	522	524	526	522	496	466
55°F	482	484	484	486	466	428
50°F	442	444	446	448	428	—

Table 39. Capacity table (continued)

Leaving Water Temp (Assumes 840 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,050 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	406	408	410	394	—	—
40°F	372	374	360	—	—	—

Figure 16. Evaporator PD curve

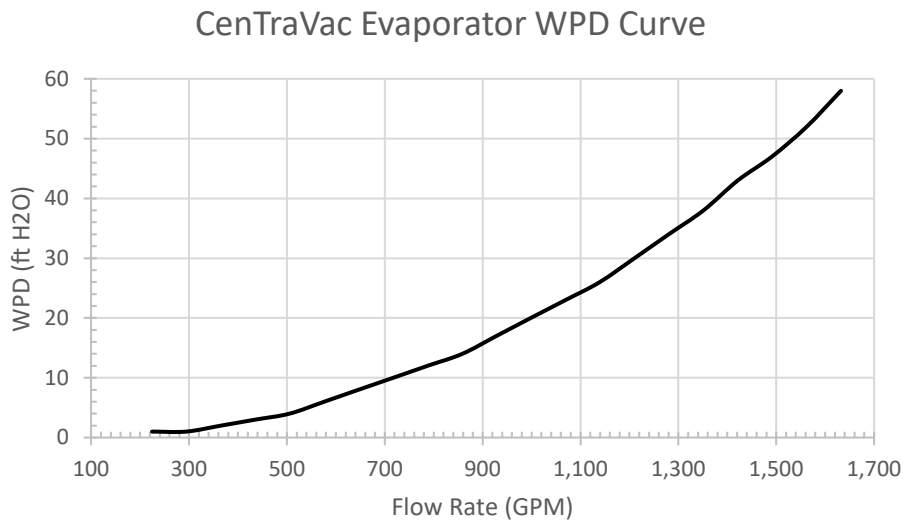


Figure 17. Condenser PD curve

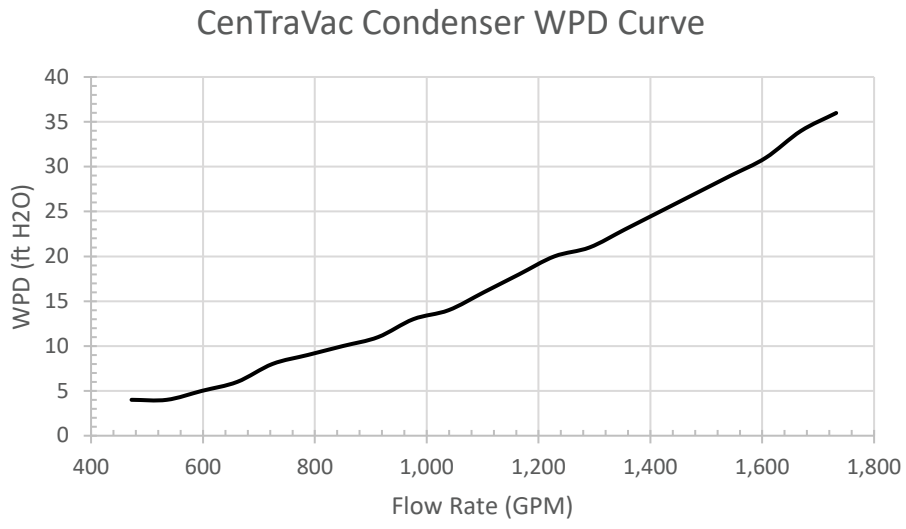
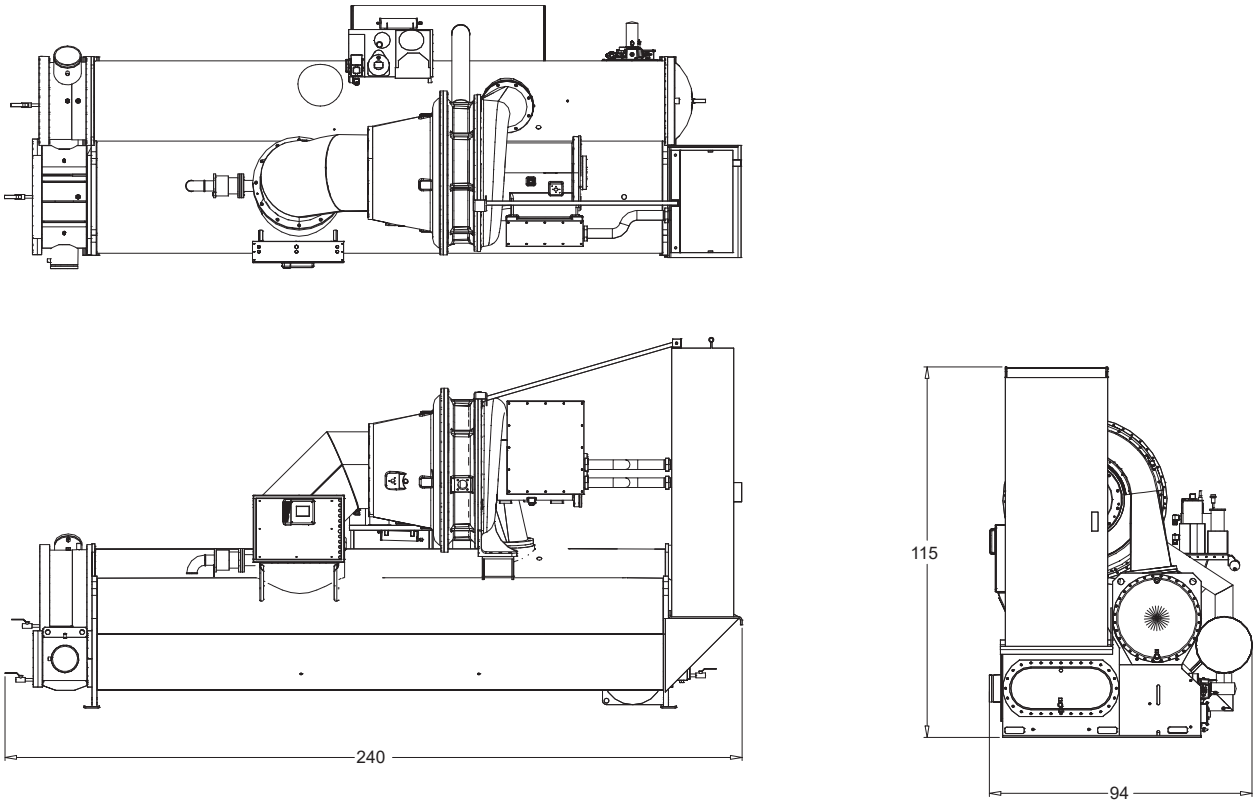


Figure 18. Unit drawings



CSCW0350F0AG

Table 40. General data

Labels	Value
Nominal Tons	385
Refrigerant	R-123
Refrigerant Charge	800 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	88 Tons
Evaporator Min/Max Flow (GPM)	224/1,632
Condenser Min/Max Flow (GPM)	472/1,732
Evap Water Volume	102 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 41. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	409 A
Maximum Overcurrent Protection (MOP)	700 A
Run Load Amps (RLA)	320 A
Starter Type	Star/Wye-Delta
LRAY	624 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 42. Dimensions and weights

Labels	Value
Length	20 ft.
Width	7 ft. 4-in.
Height	9 ft. 8-in.
Shipping Weight	18,810 lbs
Operating Weight	21,484 lbs
Lifting Device	Crane

Table 43. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 44. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
79	78	79	81

Table 45. Capacity table

Leaving Water Temp (Assumes 840 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,050 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	522	524	526	522	496	466
55°F	482	484	484	486	466	426
50°F	442	444	446	448	424	—

Table 45. Capacity table (continued)

Leaving Water Temp (Assumes 840 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,050 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	406	408	410	394	—	—
40°F	372	374	360	—	—	—

Figure 19. Evaporator PD curve

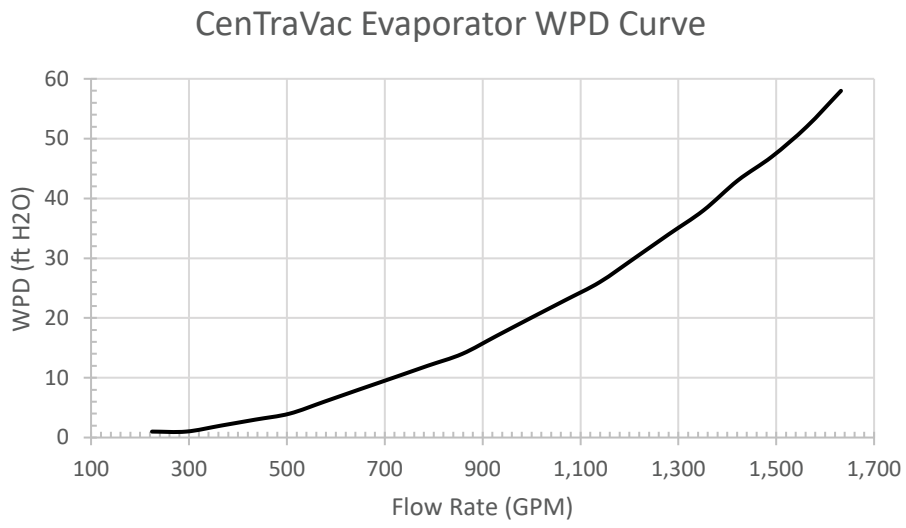


Figure 20. Condenser PD curve

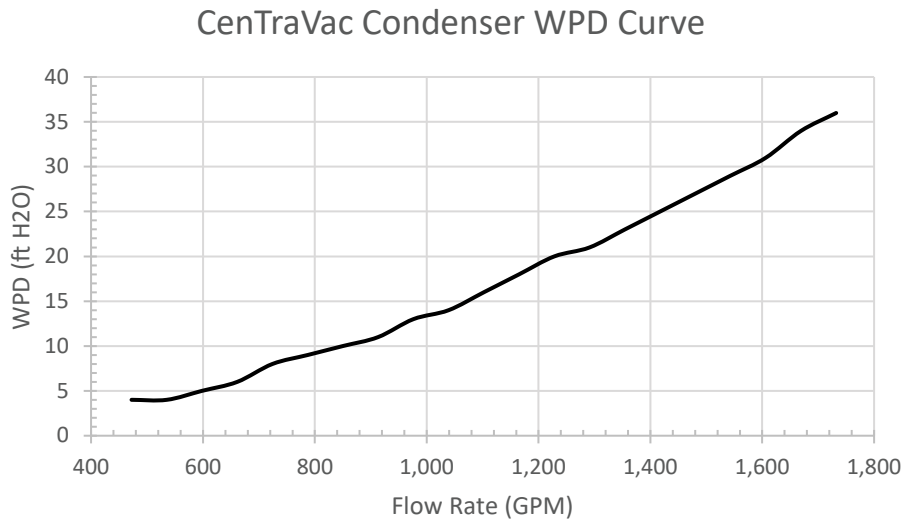
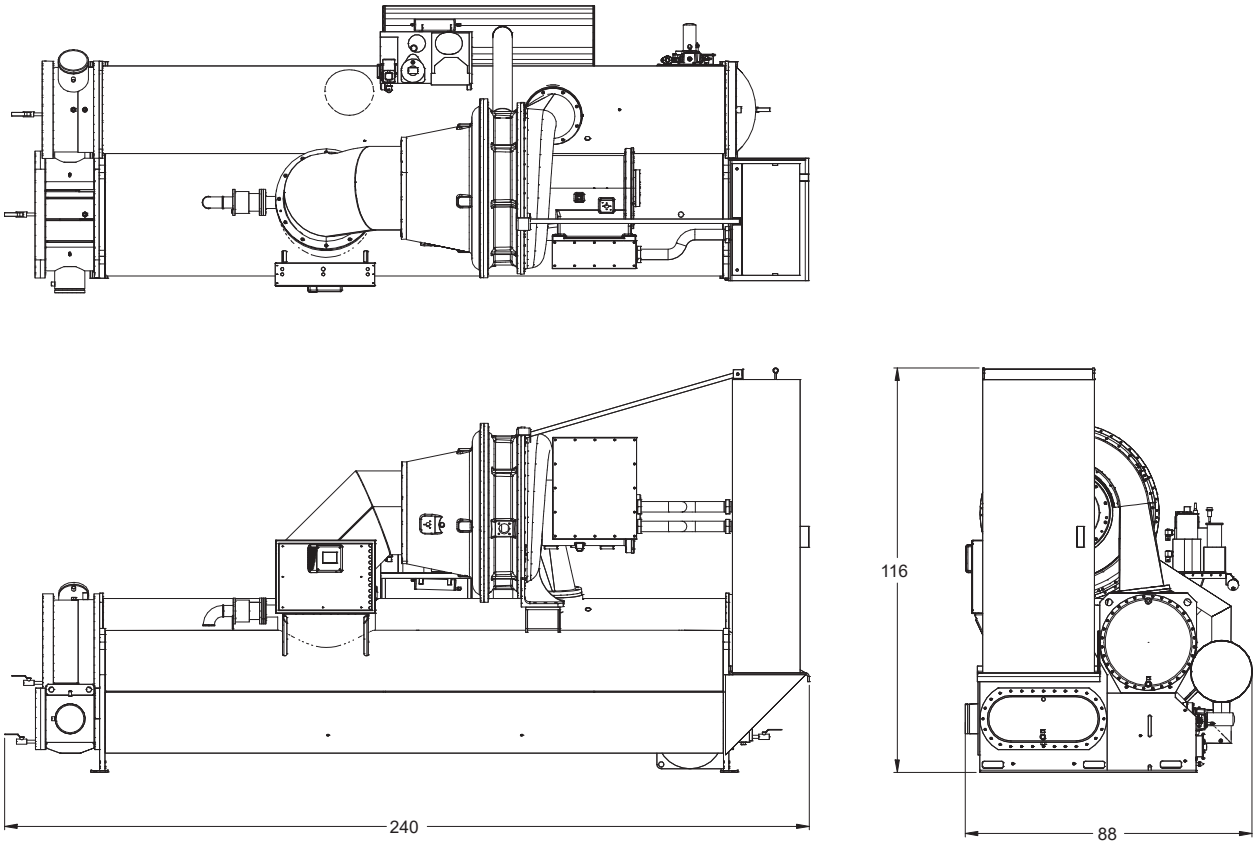


Figure 21. Unit drawings



500 Ton Water-Cooled

CSCA0500F0AC

Table 46. General data

Labels	Value
Nominal Tons	560
Refrigerant	R-123
Refrigerant Charge	990 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	125 Tons
Evaporator Min/Max Flow (GPM)	199/1,453
Condenser Min/Max Flow (GPM)	475/1,739
Evap Water Volume	101 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1

Table 46. General data (continued)

Labels	Value
Max Operating Pressure Evaporator/Condenser	300 psi

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

(a) Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
(b) Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 47. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type(a)	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	618 A
Maximum Overcurrent Protection (MOP)	1,000 A
Run Load Amps (RLA)	487 A
Starter Type	Star/Wye-Delta
LRAY	833 A

(a) If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 48. Dimensions and weights

Labels	Value
Length	19 ft. 10-in.
Width	7 ft. 8-in.
Height	8 ft. 7-in.
Shipping Weight	21,000 lbs
Operating Weight	23,808 lbs
Lifting Device	Crane

Table 49. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 50. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
80	79	80	83

Table 51. Capacity table

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
60°F	530	550	565	585	600	620
55°F	525	545	560	580	595	610
50°F	520	540	555	575	590	570
45°F	515	535	545	565	530	—
40°F	510	495	525	485	—	—

Figure 22. Evaporator PD curve

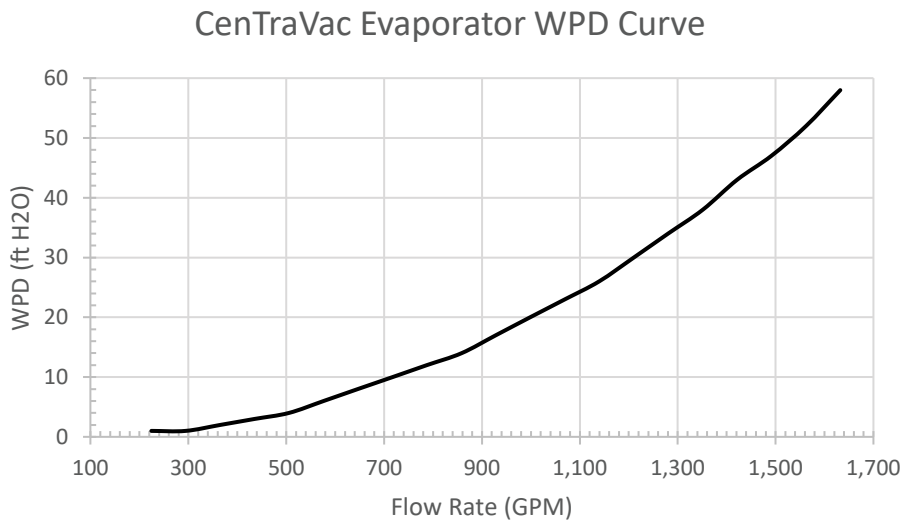


Figure 23. Condenser PD curve

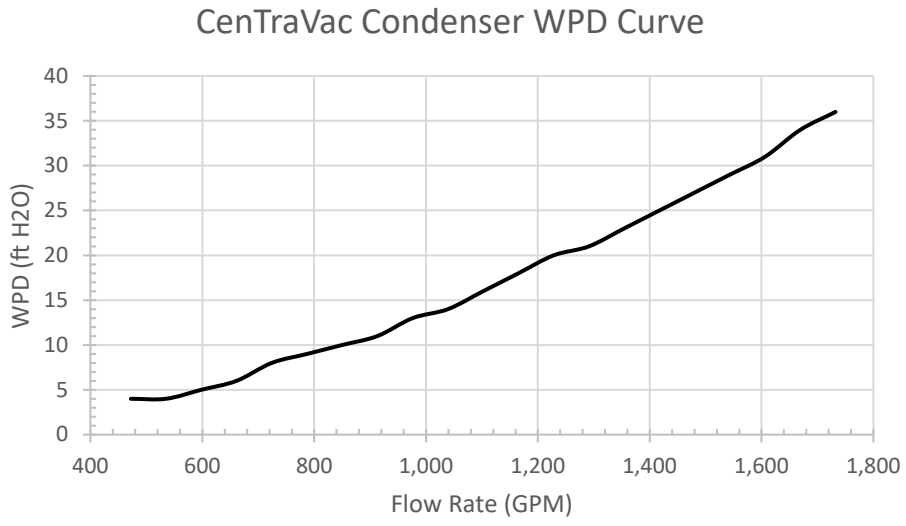
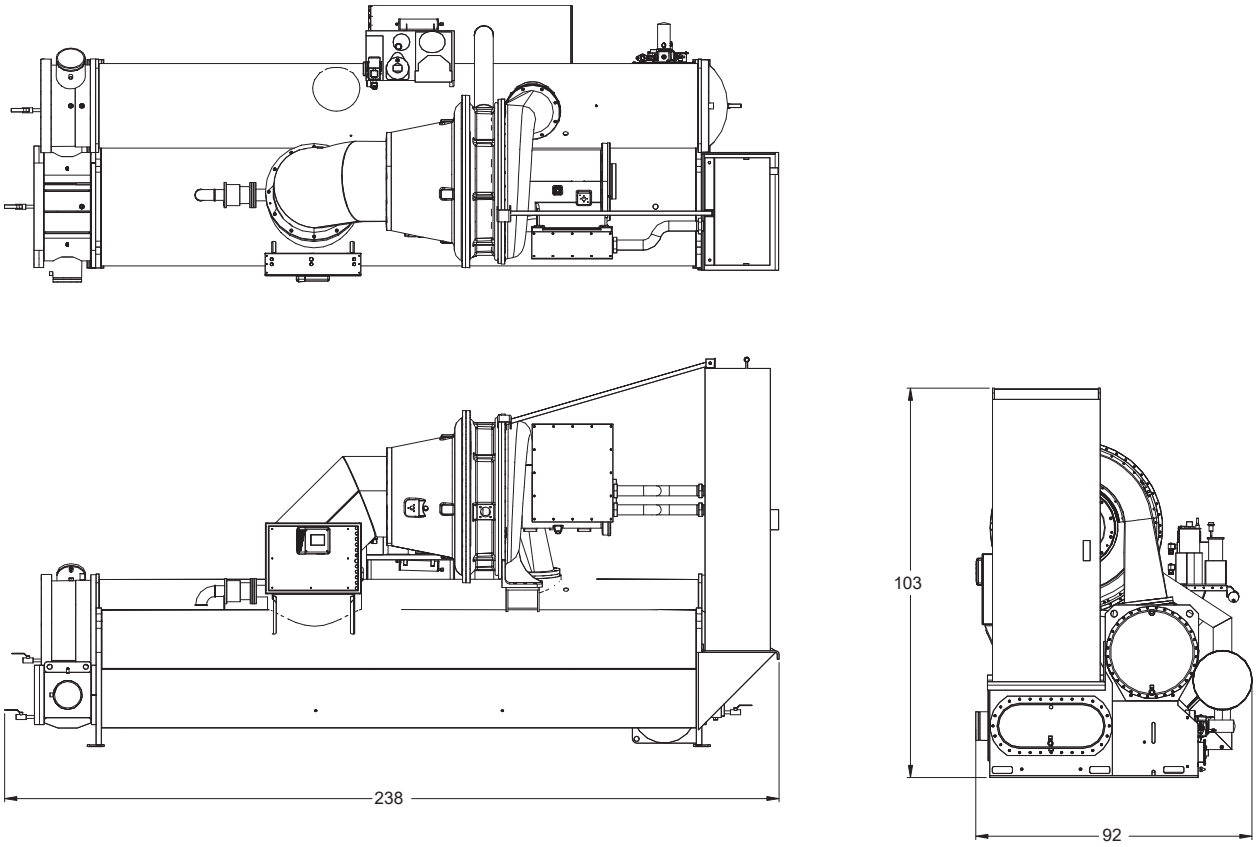


Figure 24. Unit drawings



CSCW0500F0AD and CSCW0500F0AE

Table 52. General data

Labels	Value
Nominal Tons	500
Refrigerant	R-123
Refrigerant Charge	1,000 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	125 Tons
Evaporator Min/Max Flow (GPM)	199/1,453
Condenser Min/Max Flow (GPM)	474/1,735
Evap Water Volume	101 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.

[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 53. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	546 A
Maximum Overcurrent Protection (MOP)	800 A
Run Load Amps (RLA)	429 A
Starter Type	Star/Wye-Delta
LRAY	690 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 54. Dimensions and weights

Labels	Value
Length	19 ft. 8-in.
Width	7 ft.
Height	9 ft. 9-in.
Shipping Weight	22,500 lbs
Operating Weight	25,167 lbs
Lifting Device	Crane

Table 55. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 56. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
80	79	80	83

Table 57. Capacity table

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	520	540	560	575	595	565
55°F	520	535	555	570	580	535
50°F	515	530	550	565	550	505

Table 57. Capacity table (continued)

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	510	525	545	555	520	455
40°F	505	505	510	515	—	—

Figure 25. Evaporator PD curve

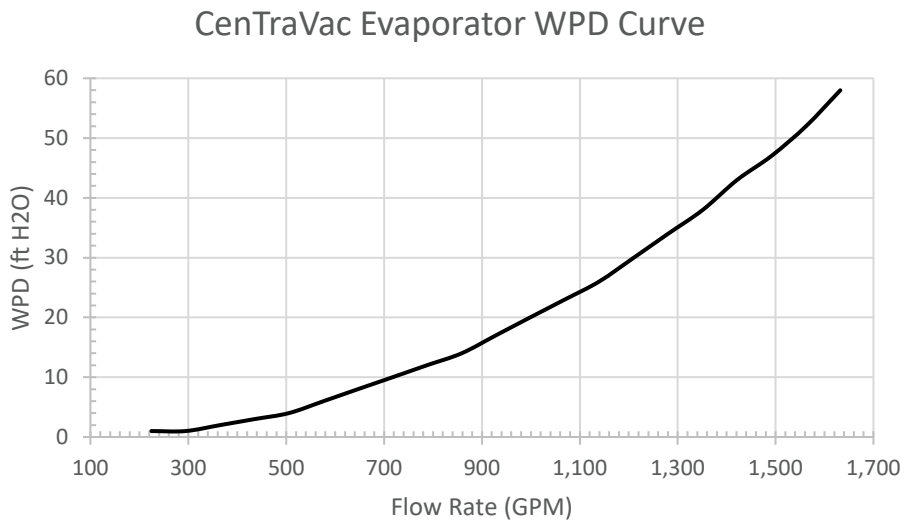


Figure 26. Condenser PD curve

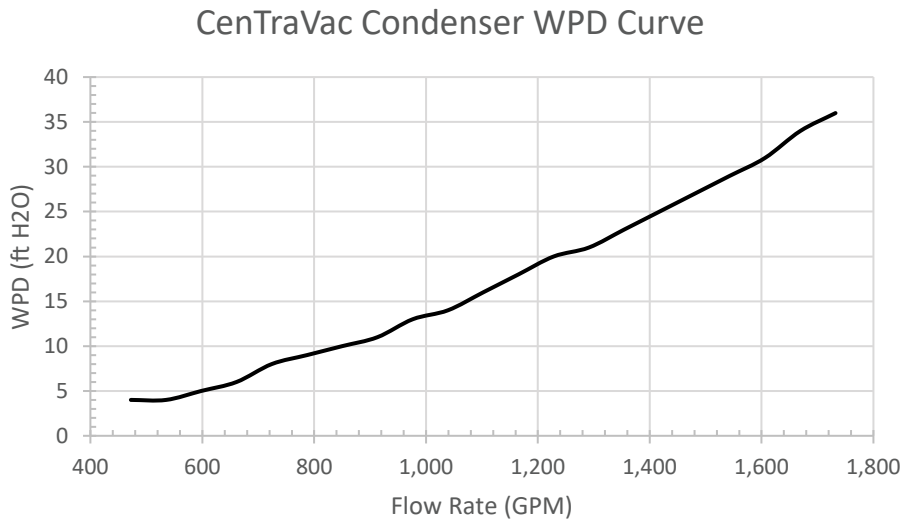
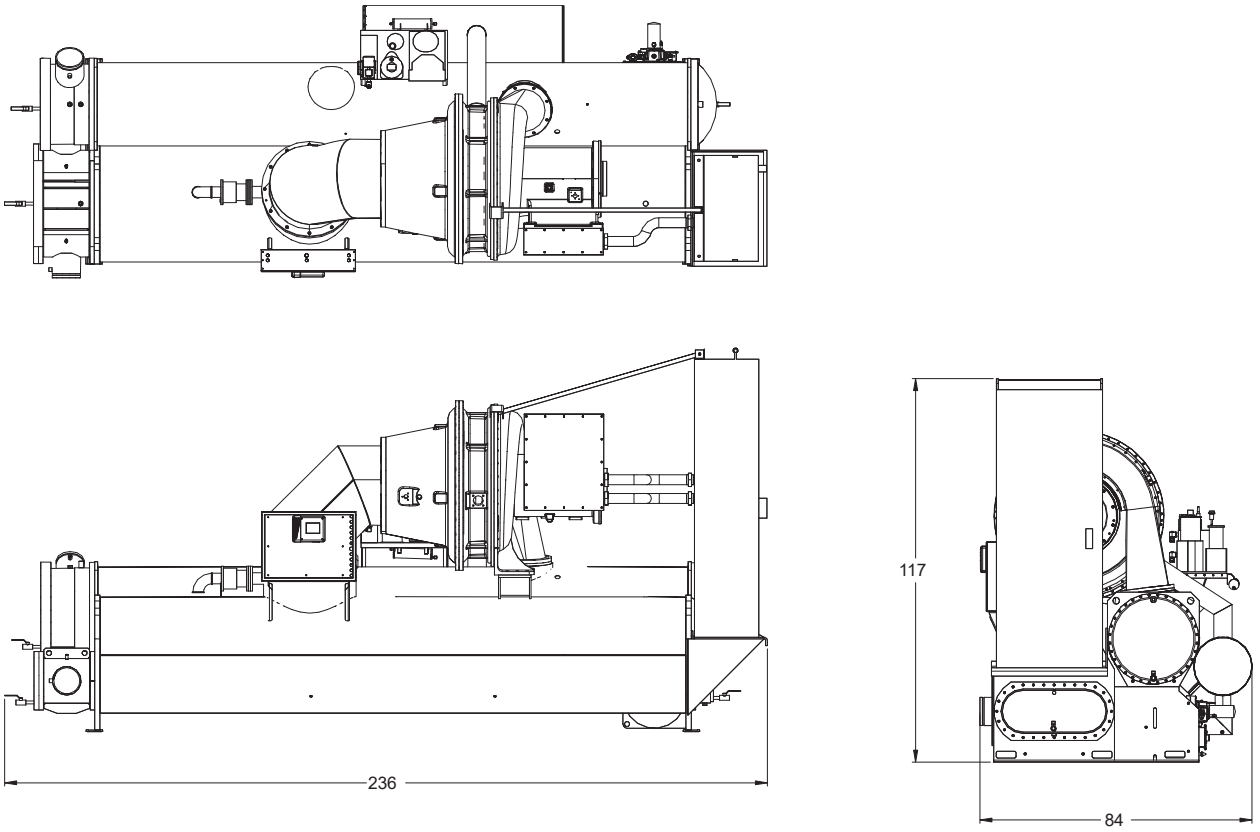


Figure 27. Unit drawings



CSCW0500F0AH and CSCW0500F0AJ

Table 58. General data

Labels	Value
Nominal Tons	500
Refrigerant	R-123
Refrigerant Charge	750 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	125 Tons
Evaporator Min/Max Flow (GPM)	212/1,549
Condenser Min/Max Flow (GPM)	474/1,735
Evap Water Volume	101 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 59. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	510 A
Maximum Overcurrent Protection (MOP)	800 A
Run Load Amps (RLA)	401 A
Starter Type	Star/Wye-Delta
LRAY	687 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 60. Dimensions and weights

Labels	Value
Length	19 ft. 10-in.
Width	7 ft. 8-in.
Height	9 ft. 9-in.
Shipping Weight	22,500 lbs
Operating Weight	25,068 lbs
Lifting Device	Crane

Table 61. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 62. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
80	79	80	83

Table 63. Capacity table

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	520	540	560	575	585	560
55°F	515	535	555	570	575	515
50°F	510	530	550	560	535	—

Table 63. Capacity table (continued)

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	510	515	515	520	—	—
40°F	470	470	475	—	—	—

Figure 28. Evaporator PD curve

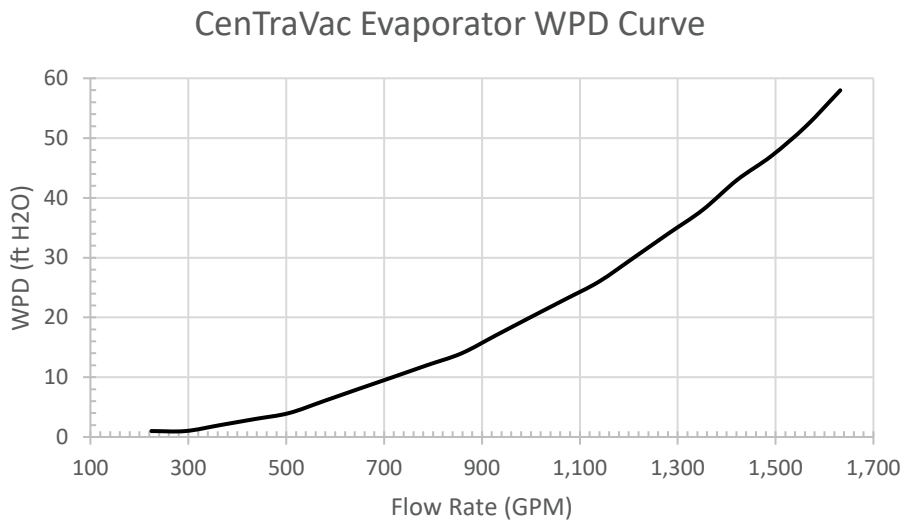


Figure 29. Condenser PD curve

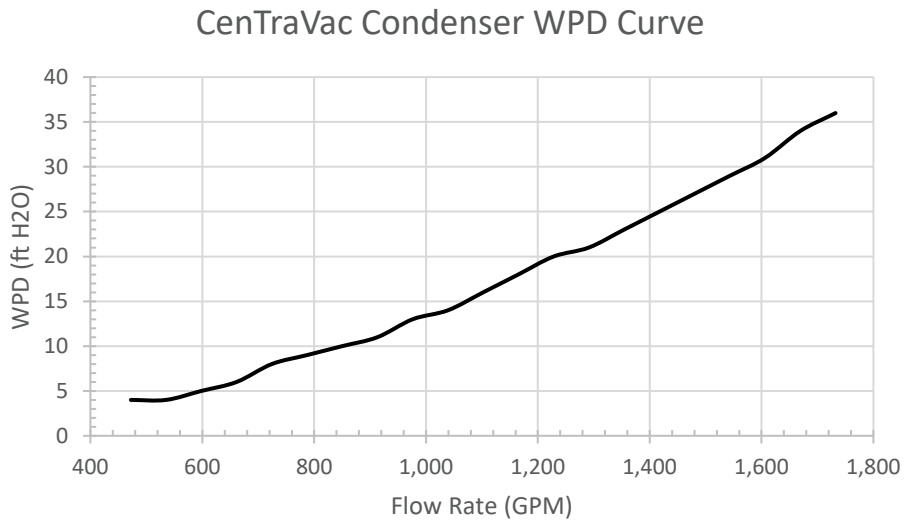
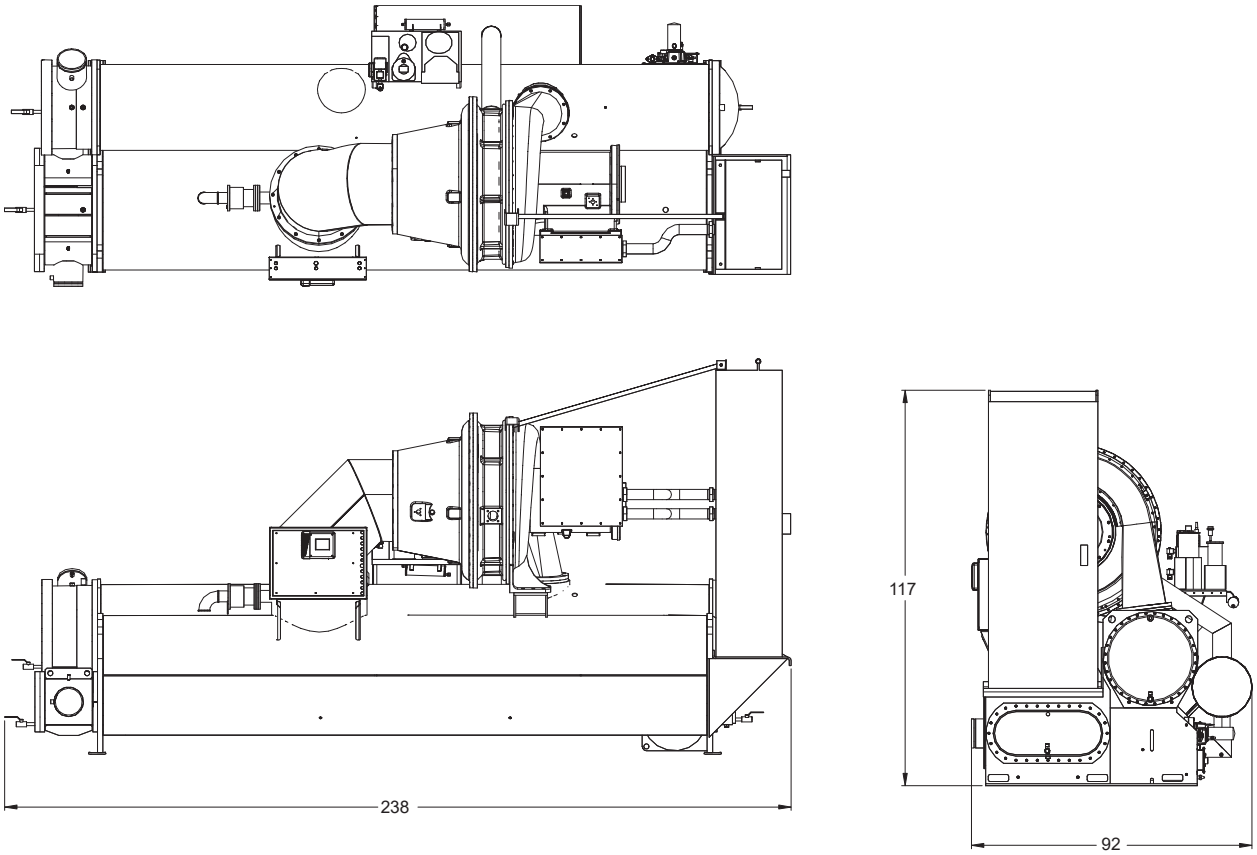


Figure 30. Unit drawings



CSCW0500F0AK, CSCW0500F0AL, CSCS0500F0AM, and CSCW0500F0AN

Table 64. General data

Labels	Value
Nominal Tons	500
Refrigerant	R-123
Refrigerant Charge	800 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	125 Tons
Evaporator Min/Max Flow (GPM)	221/1,614
Condenser Min/Max Flow (GPM)	474/1,735
Evap Water Volume	101 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.

[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 65. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	535 A
Maximum Overcurrent Protection (MOP)	800 A
Run Load Amps (RLA)	419 A
Starter Type	Star/Wye-Delta
LRAY	809 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 66. Dimensions and weights

Labels	Value
Length	20 ft.
Width	7 ft. 6-in.
Height	9 ft. 7-in.
Shipping Weight	19,500 lbs
Operating Weight	22,023 lbs
Lifting Device	Crane

Table 67. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 68. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
80	79	80	83

Table 69. Capacity table

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	520	540	560	580	595	555
55°F	520	535	555	575	570	510
50°F	515	530	550	565	530	—

Table 69. Capacity table (continued)

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	510	515	515	520	—	—
40°F	470	475	475	—	—	—

Figure 31. Evaporator PD curve

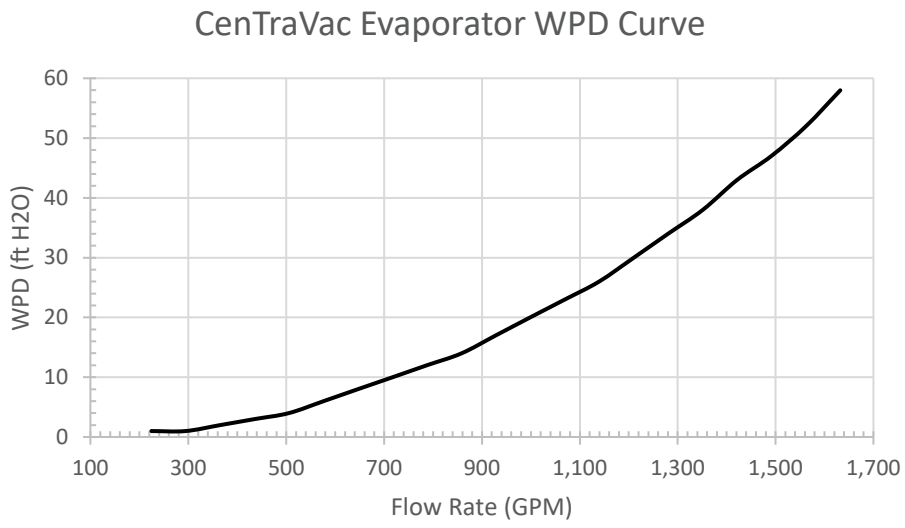


Figure 32. Condenser PD curve

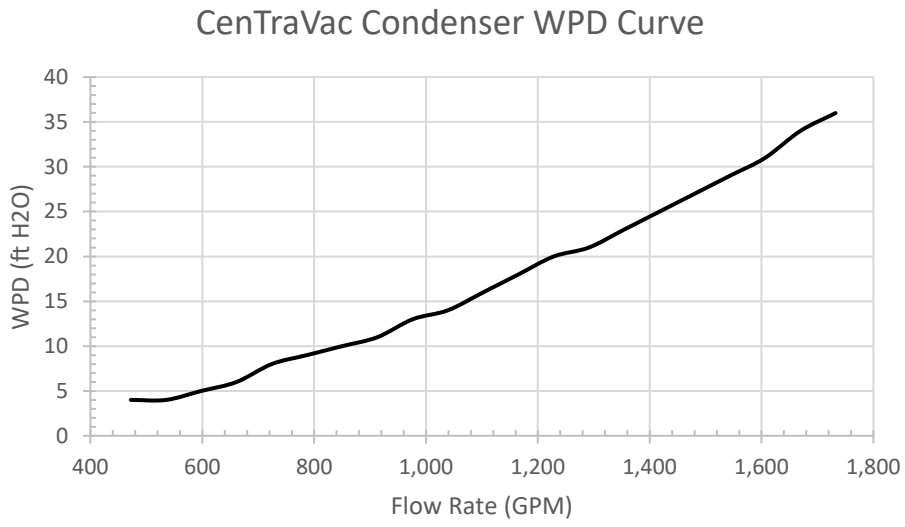
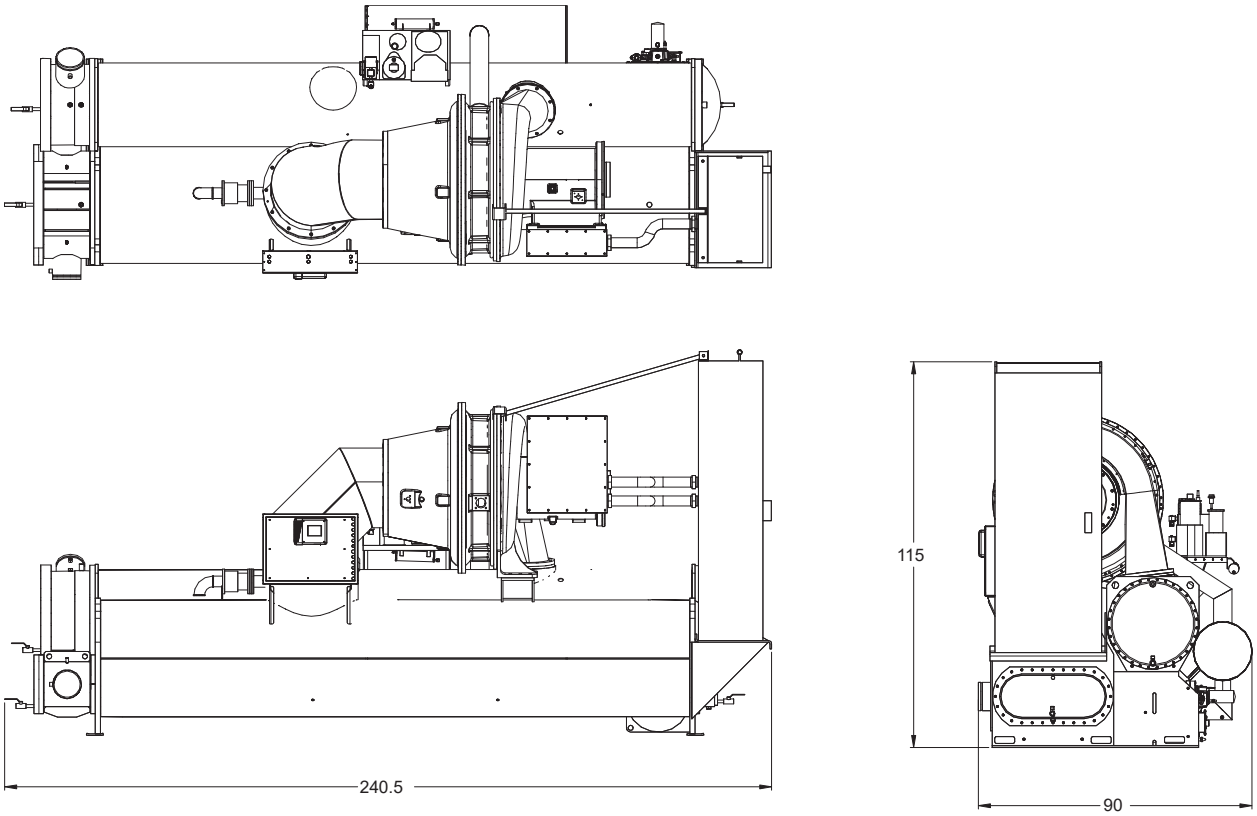


Figure 33. Unit drawings



CSCW0500F0AO, CSCW0500F0AP, CSCW0500F0AQ, and CSCW0500F0AR

Table 70. General data

Labels	Value
Nominal Tons	500
Refrigerant	R-123
Refrigerant Charge	800 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	125 Tons
Evaporator Min/Max Flow (GPM)	220/1,614
Condenser Min/Max Flow (GPM)	473/1,735
Evap Water Volume	101 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.

[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 71. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Two Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	535 A
Maximum Overcurrent Protection (MOP)	800 A
Run Load Amps (RLA)	420 A
Starter Type	Star/Wye-Delta
LRAY	809 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 72. Dimensions and weights

Labels	Value
Length	19 ft. 5-in.
Width	7 ft.
Height	9 ft. 2-in.
Shipping Weight	19,462 lbs
Operating Weight	22,131 lbs
Lifting Device	Crane

Table 73. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 74. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
80	79	80	83

Table 75. Capacity table

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	520	540	560	580	595	555
55°F	520	535	555	575	570	510
50°F	515	530	550	565	530	—

Table 75. Capacity table (continued)

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	510	515	515	520	—	—
40°F	470	475	475	—	—	—

Figure 34. Evaporator PD curve

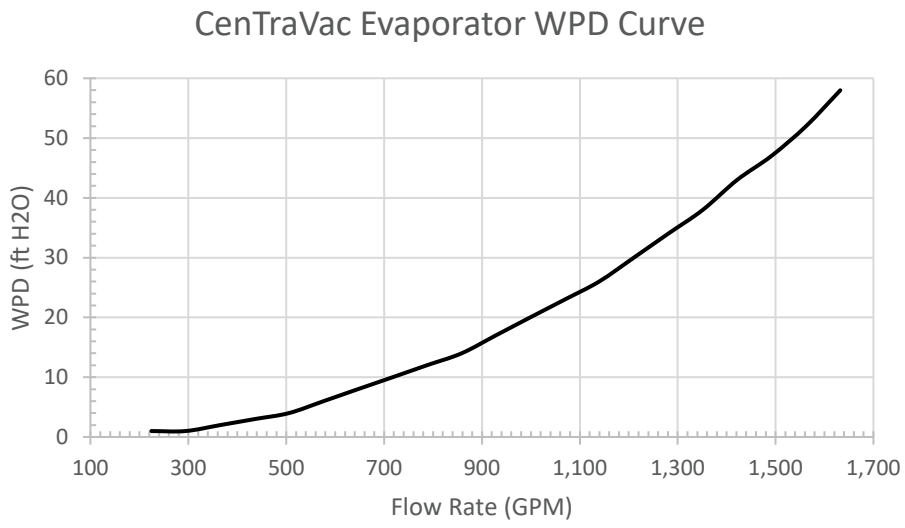


Figure 35. Condenser PD curve

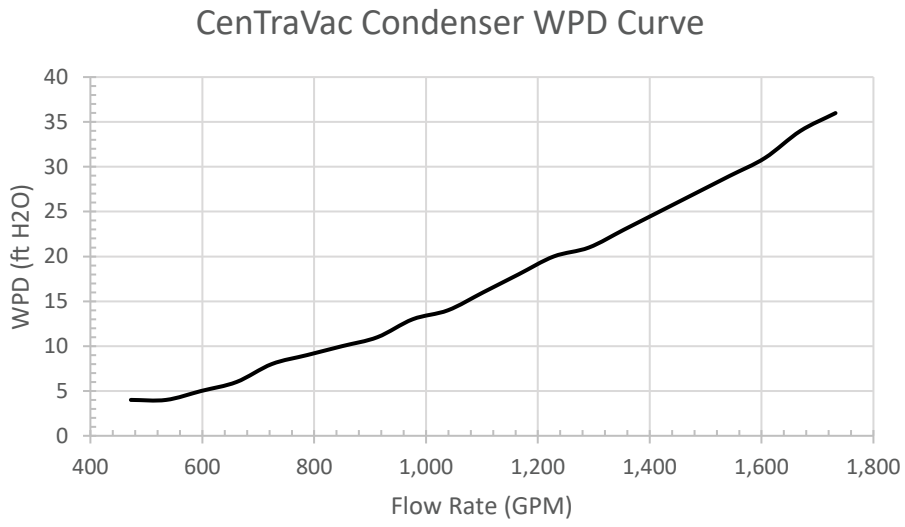
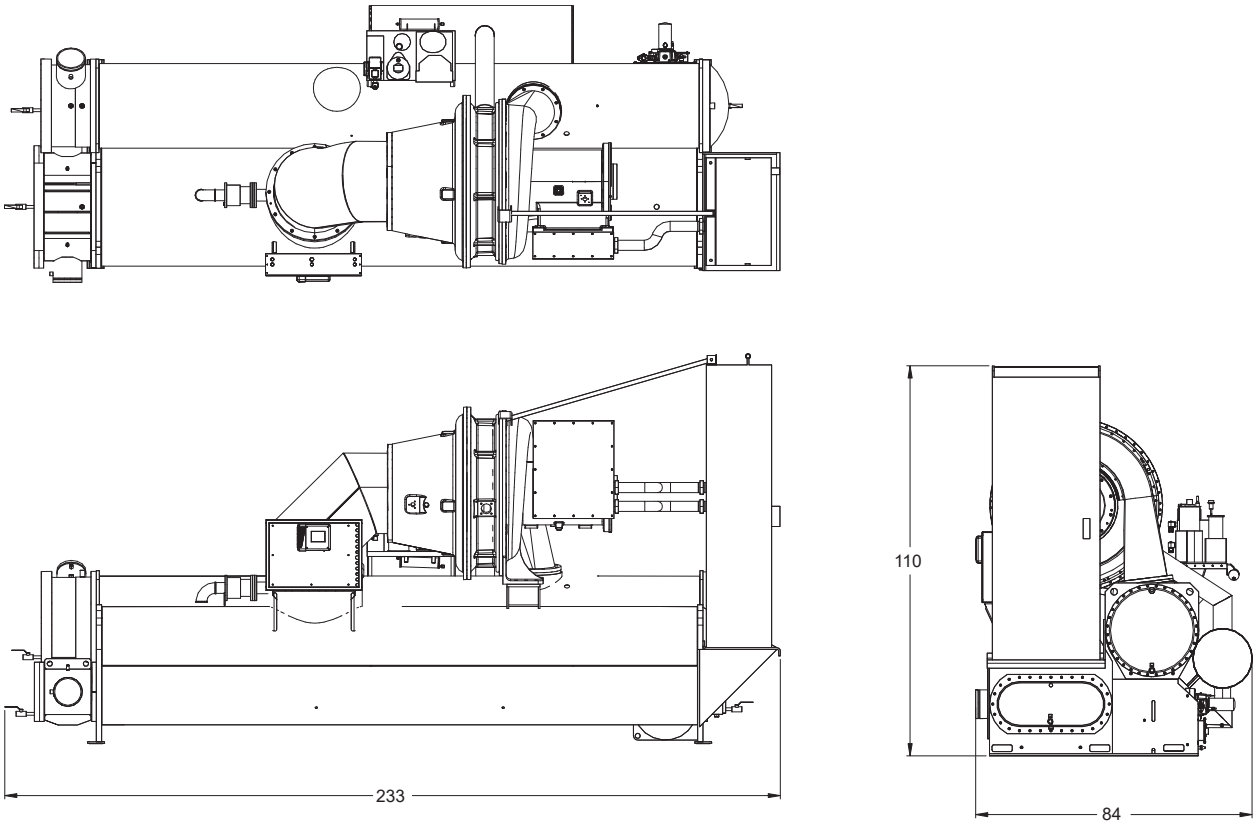


Figure 36. Unit drawings



CSCW0500F0AS

Table 76. General data

Labels	Value
Nominal Tons	500
Refrigerant	R-123
Refrigerant Charge	800 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	125 Tons
Evaporator Min/Max Flow (GPM)	220/1,632
Condenser Min/Max Flow (GPM)	472/1,732
Evap Water Volume	102 Gal
Cond Water Volume	107 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 77. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	525 A
Maximum Overcurrent Protection (MOP)	800 A
Run Load Amps (RLA)	413 A
Starter Type	Star/Wye-Delta
LRAY	774 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 78. Dimensions and weights

Labels	Value
Length	20 ft.
Width	7 ft. 10-in.
Height	9 ft. 7-in.
Shipping Weight	19,410 lbs
Operating Weight	22,084 lbs
Lifting Device	Crane

Table 79. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 80. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
80	79	80	83

Table 81. Capacity table

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	525	545	560	580	600	605
55°F	520	540	560	575	595	595
50°F	515	535	550	555	560	—

Table 81. Capacity table (continued)

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	505	505	510	510	—	—
40°F	460	465	465	—	—	—

Figure 37. Evaporator PD curve

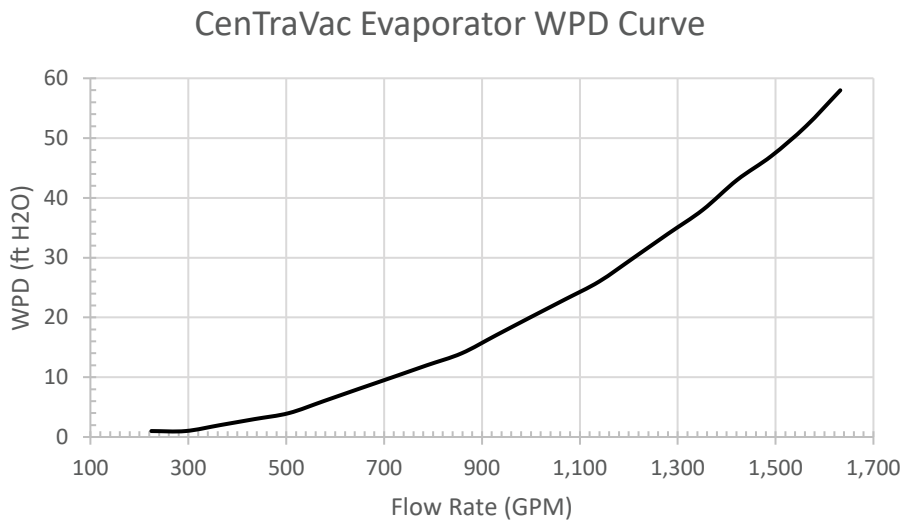


Figure 38. Condenser PD curve

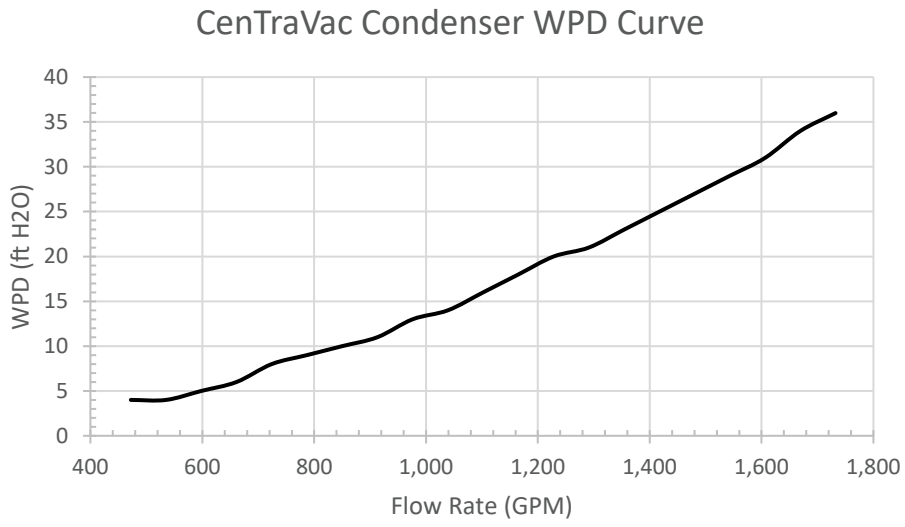
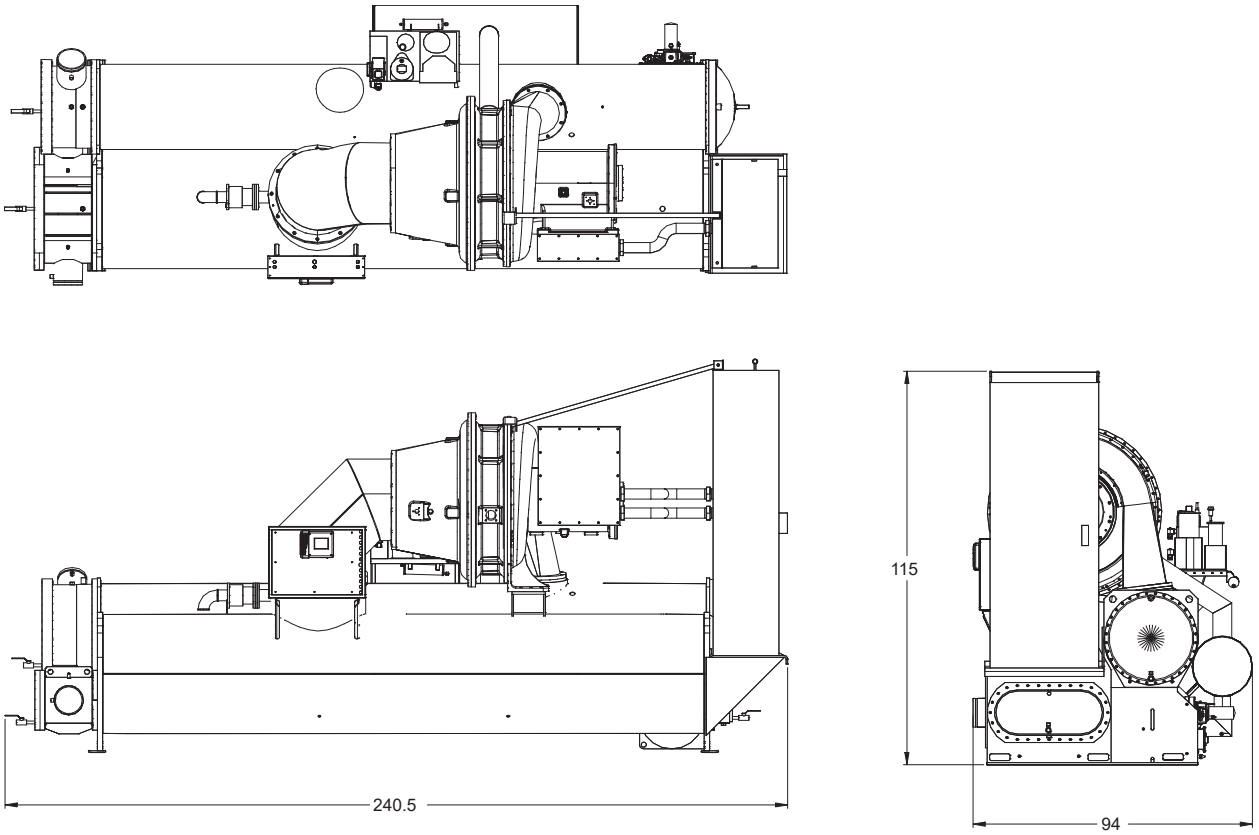


Figure 39. Unit drawings



CSCW0500F2AT

Table 82. General data

Labels	Value
Nominal Tons	500
Refrigerant	R-123
Refrigerant Charge	800 lbs
Oil Charge	9 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	125 Tons
Evaporator Min/Max Flow (GPM)	224/1,614
Condenser Min/Max Flow (GPM)	472/1,735
Evap Water Volume	83 Gal
Cond Water Volume	89 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 83. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	526 A
Maximum Overcurrent Protection (MOP)	800 A
Run Load Amps (RLA)	413 A
Starter Type	Star/Wye-Delta
LRAY	774 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 84. Dimensions and weights

Labels	Value
Length	22 ft. 8-in.
Width	7 ft. 6-in.
Height	9 ft. 1-in.
Shipping Weight	26,000 lbs
Operating Weight	28,368 lbs
Lifting Device	Crane

Table 85. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	40-in.
Either End	48-in.
Top	36-in.

Table 86. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
80	79	80	83

Table 87. Capacity table

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	525	545	560	580	600	605
55°F	520	540	560	575	595	595
50°F	515	535	550	555	560	—

Table 87. Capacity table (continued)

Leaving Water Temp (Assumes 1,200 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 1,500 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	505	505	510	510	—	—
40°F	460	465	465	—	—	—

Figure 40. Evaporator PD curve

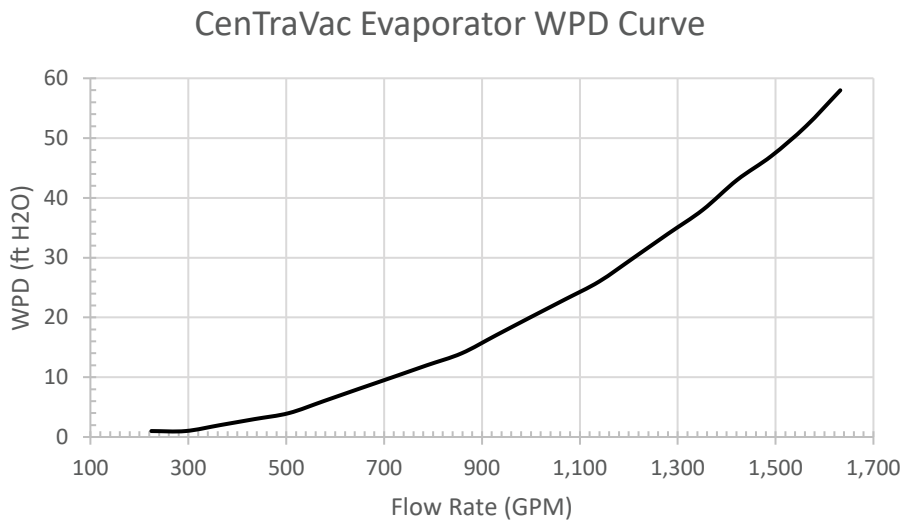


Figure 41. Condenser PD curve

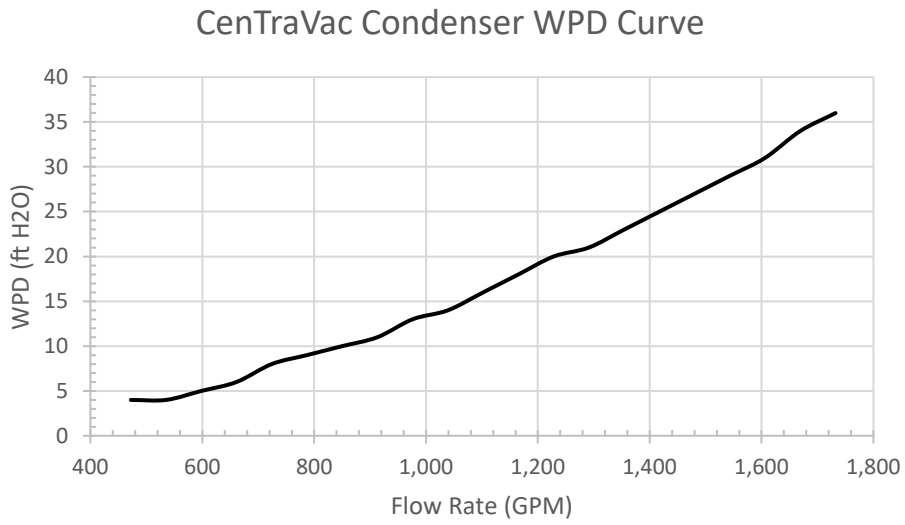
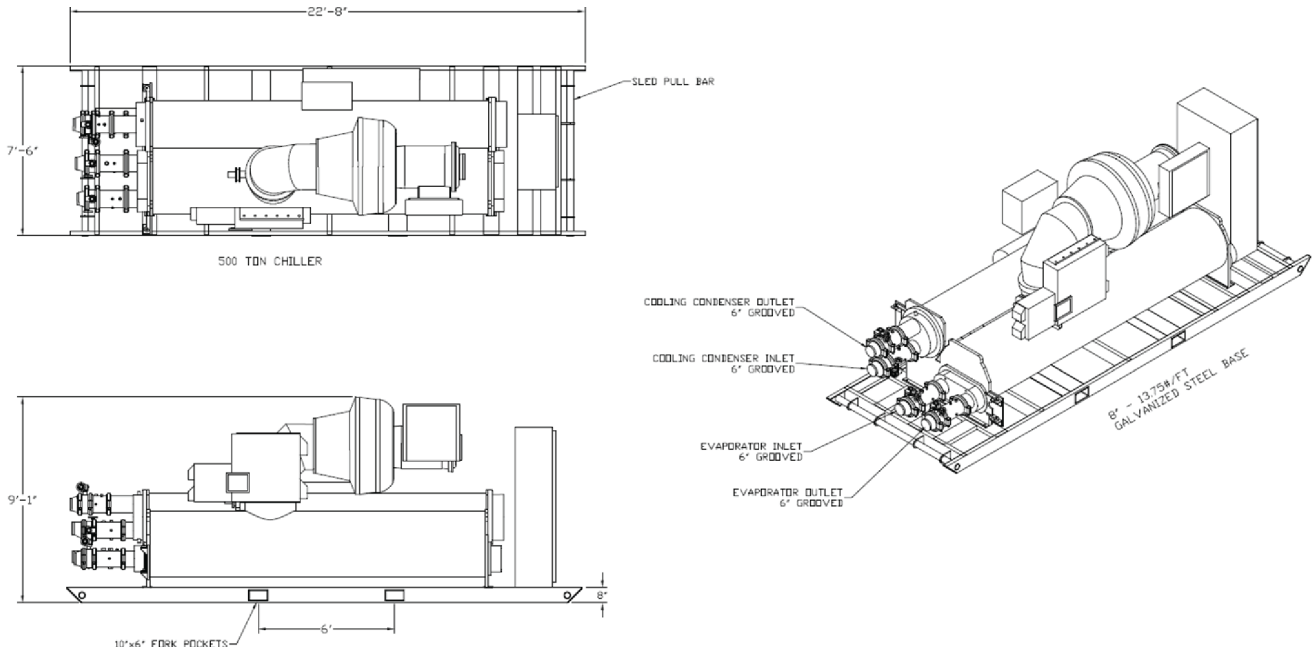


Figure 42. Unit drawings



750 Ton Water-Cooled

CSCW0750F0AE

Table 88. General data

Labels	Value
Nominal Tons	770
Refrigerant	R-123
Refrigerant Charge	1,100 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	188 Tons
Evaporator Min/Max Flow (GPM)	576/2,109
Condenser Min/Max Flow (GPM)	288/2,739
Evap Water Volume	134 Gal
Cond Water Volume	198 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

(a) Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.

(b) Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 89. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Three Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	964 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	764 A
Starter Type	Star/Wye-Delta
LRAY	1732 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 90. Dimensions and weights

Labels	Value
Length	20 ft. 5-in.
Width	8 ft. 3-in.
Height	9 ft. 4-in.
Shipping Weight	29,133 lbs
Operating Weight	33,457 lbs
Lifting Device	Crane

Table 91. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	36-in.
Either End	48-in.
Top	36-in.

Table 92. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
81	79	80	83

Table 93. Capacity table

Leaving Water Temp (Assumes 1,800 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 2,250 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	860	860	860	860	860	860
55°F	860	860	860	860	860	860
50°F	840	845	845	850	855	860

Table 93. Capacity table (continued)

Leaving Water Temp (Assumes 1,800 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 2,250 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
45°F	775	780	780	785	790	795
40°F	715	715	720	725	730	—

Figure 43. Evaporator PD curve

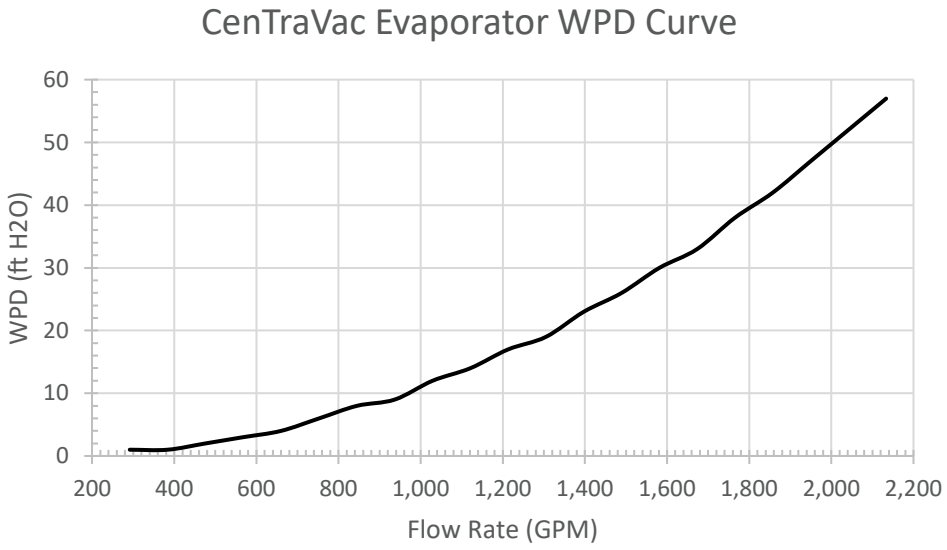


Figure 44. Condenser PD curve

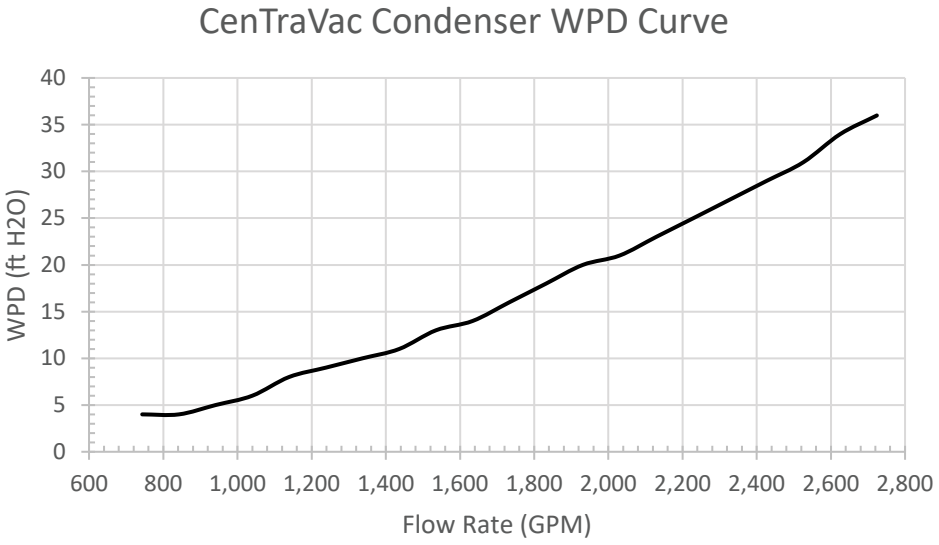
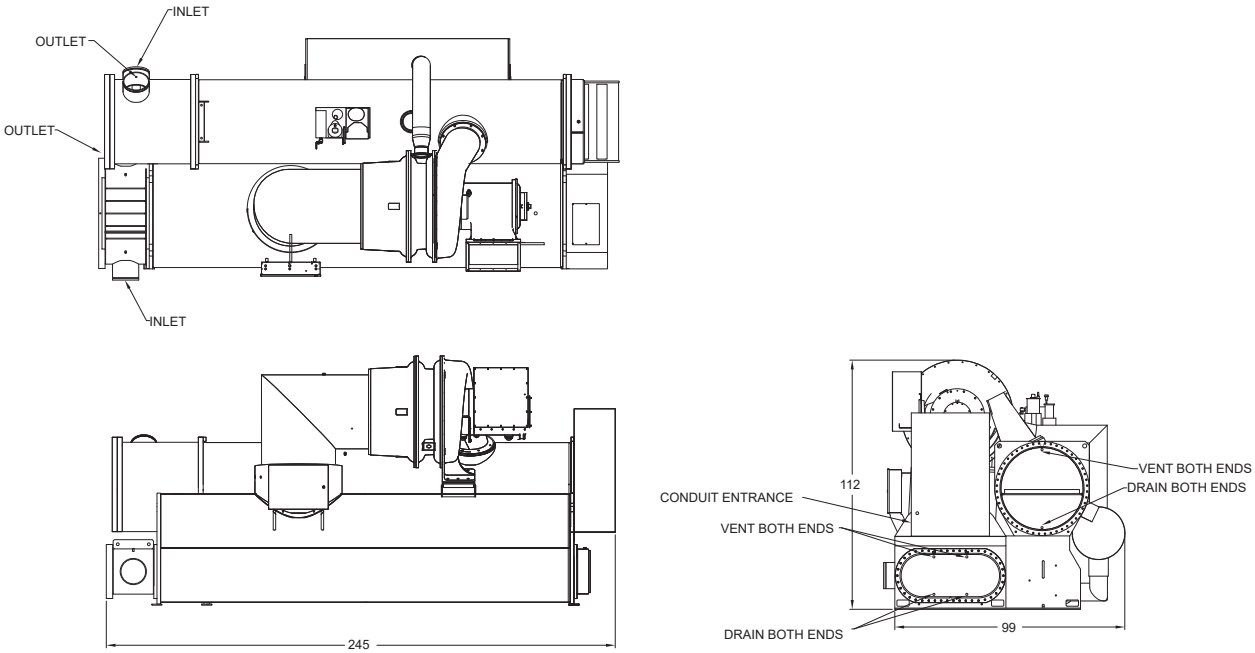


Figure 45. Unit drawings



1000 Ton Water-Cooled

CSCW1000F0AC

Table 94. General data

Labels	Value
Nominal Tons	1,100
Refrigerant	R-123
Refrigerant Charge	2,000 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	1,041/3,815
Condenser Min/Max Flow (GPM)	1,362/4,993
Evap Water Volume	265 Gal
Cond Water Volume	386 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 95. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Three Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	1,170 A
Maximum Overcurrent Protection (MOP)	2,000 A
Run Load Amps (RLA)	929 A
Starter Type	Star/Wye-Delta
LRAY	1,710 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 96. Dimensions and weights

Labels	Value
Length	20 ft. 10-in.
Width	8 ft. 6-in.
Height	9 ft. 9-in.
Shipping Weight	38,900 lbs
Operating Weight	46,855 lbs
Lifting Device	Crane

Table 97. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	47-in.
Either End	48-in.
Top	36-in.

Table 98. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 99. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,440	1,414	1,375	1,339	1,294	1,222
55°F	1,300	1,351	1,321	1,285	1,231	1,168

Table 99. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,235	1,246	1,249	1,213	1,177	1,114
45°F	1,145	1,148	1,050	1,141	1,096	1,042
40°F	1,050	1,043	1,033	1,006	979	925

Figure 46. Evaporator PD curve

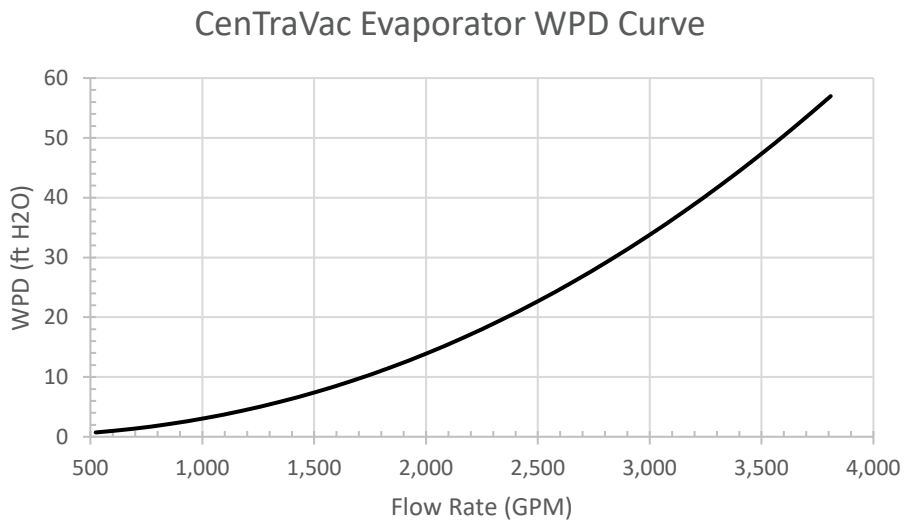


Figure 47. Condenser PD curve

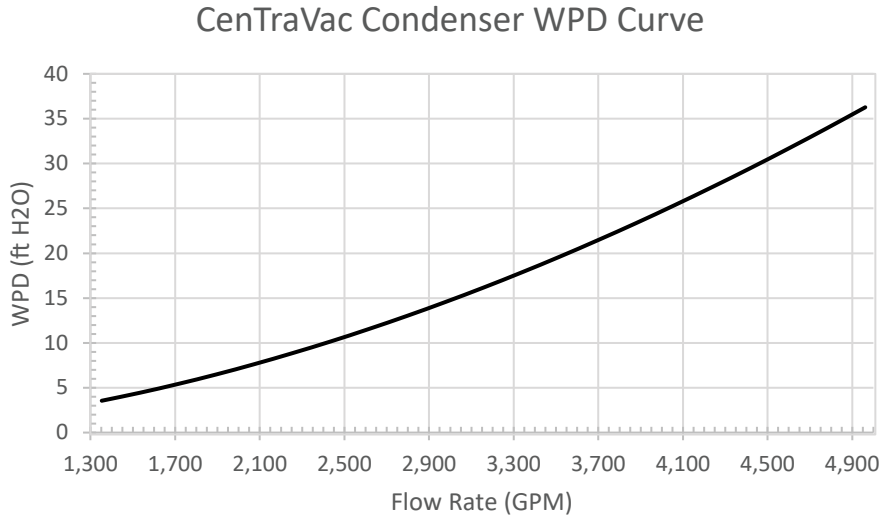
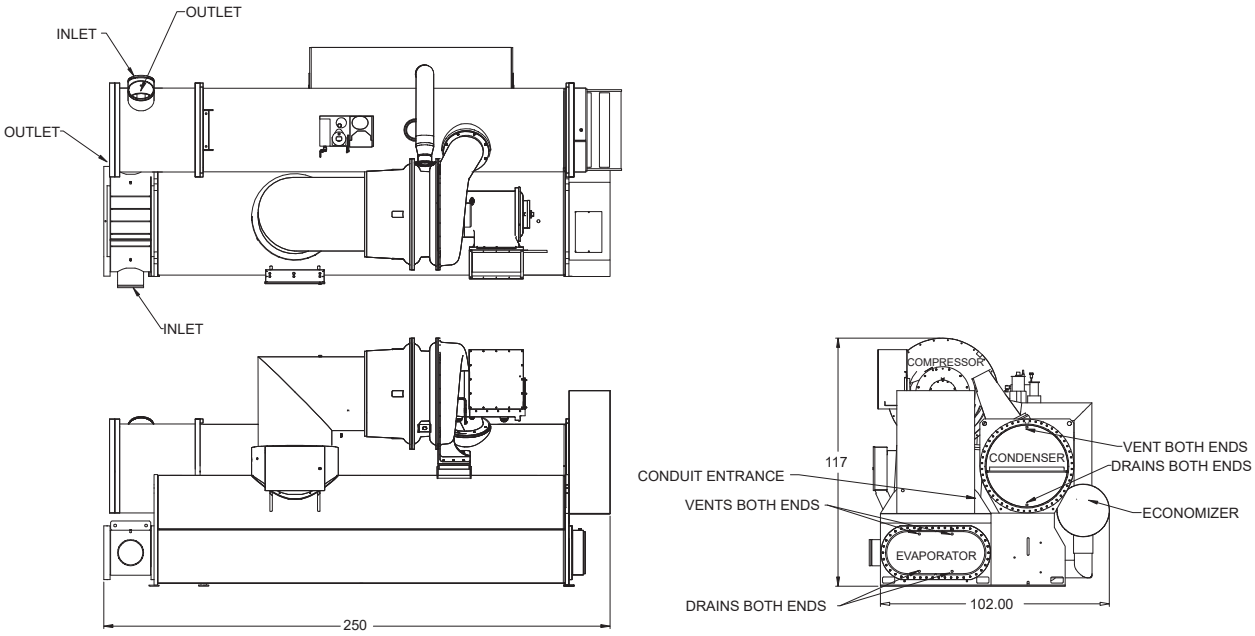


Figure 48. Unit drawings



CSCW1000F0AD

Table 100. General data

Labels	Value
Nominal Tons	1,100
Refrigerant	R-123
Refrigerant Charge	2,000 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	521/3,815
Condenser Min/Max Flow (GPM)	1,362/4,993
Evap Water Volume	265 Gal
Cond Water Volume	386 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

(a) Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
(b) Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 101. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Three Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	1,170 A
Maximum Overcurrent Protection (MOP)	2,000 A
Run Load Amps (RLA)	929 A
Starter Type	Star/Wye-Delta
LRAY	1,803 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 102. Dimensions and weights

Labels	Value
Length	20 ft. 10-in.
Width	8 ft. 6-in.
Height	9 ft. 9-in.
Shipping Weight	38,900 lbs
Operating Weight	46,855 lbs
Lifting Device	Crane

Table 103. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	47-in.
Either End	48-in.
Top	36-in.

Table 104. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 105. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,411	1,382	1,349	1,316	1,261	1,195
55°F	1,321	1,338	1,294	1,250	1,195	1,140

Table 105. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,231	1,239	1,228	1,195	1,151	1,085
45°F	1,141	1,140	1,140	1,118	1,074	1,030
40°F	1,042	1,030	1,019	997	964	909

Figure 49. Evaporator PD curve

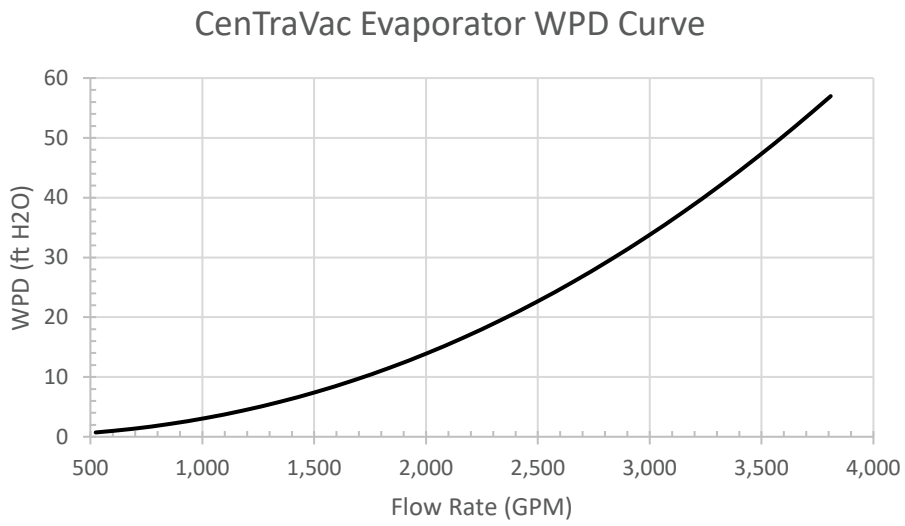


Figure 50. Condenser PD curve

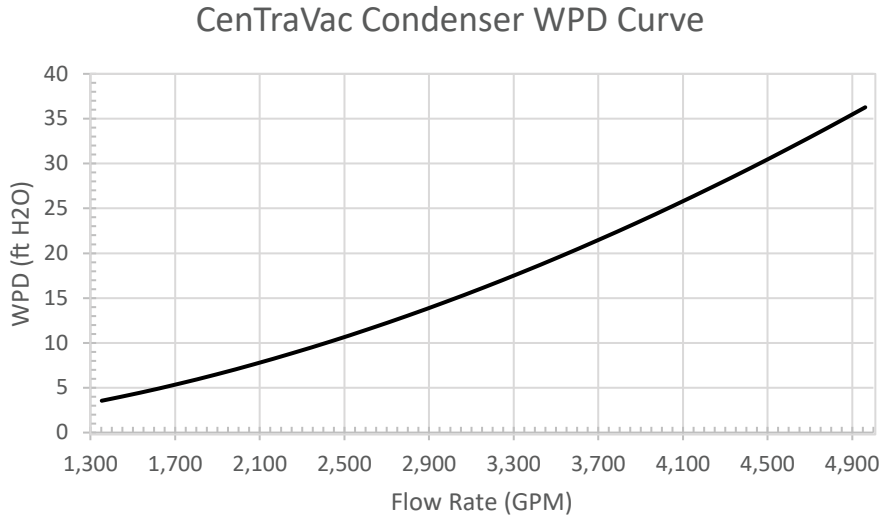
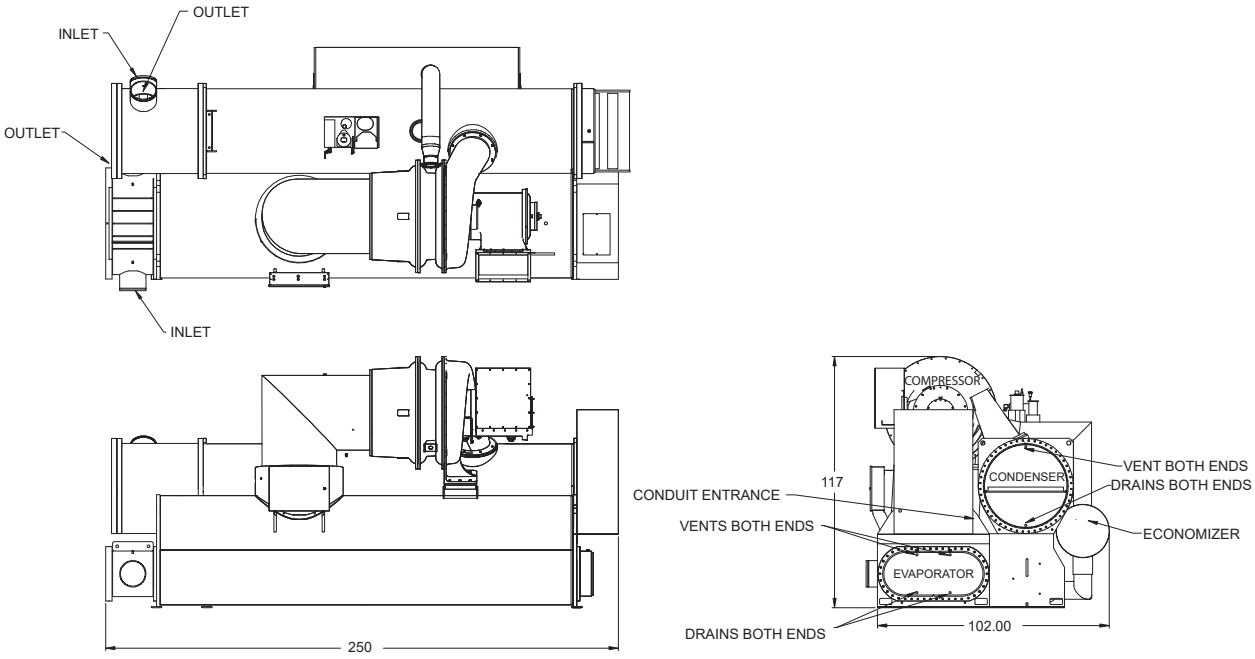


Figure 51. Unit drawings



CSCW1000F0AE

Table 106. General data

Labels	Value
Nominal Tons	1,000
Refrigerant	R-123
Refrigerant Charge	2,000 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	521/3,815
Condenser Min/Max Flow (GPM)	1,359/4,982
Evap Water Volume	265 Gal
Cond Water Volume	386 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 107. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Three Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	1,017 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	807 A
Starter Type	Star/Wye-Delta
LRAY	1,803 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 108. Dimensions and weights

Labels	Value
Length	20 ft. 7-in.
Width	9 ft. 11-in.
Height	10 ft. 4-in.
Shipping Weight	39,000 lbs
Operating Weight	46,995 lbs
Lifting Device	Crane

Table 109. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	47-in.
Either End	48-in.
Top	36-in.

Table 110. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 111. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,317	1,328	1,328	1,328	1,284	1,229
55°F	1,218	1,229	1,229	1,229	1,229	1,174

Table 111. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,130	1,130	1,130	1,141	1,141	1,119
45°F	1,031	1,042	1,042	1,053	1,053	1,053
40°F	954	954	965	965	965	921

Figure 52. Evaporator PD curve

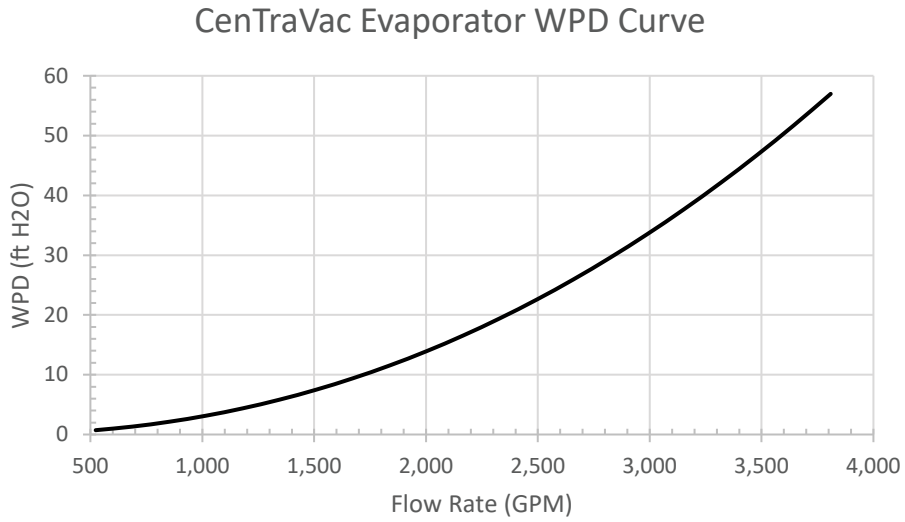


Figure 53. Condenser PD curve

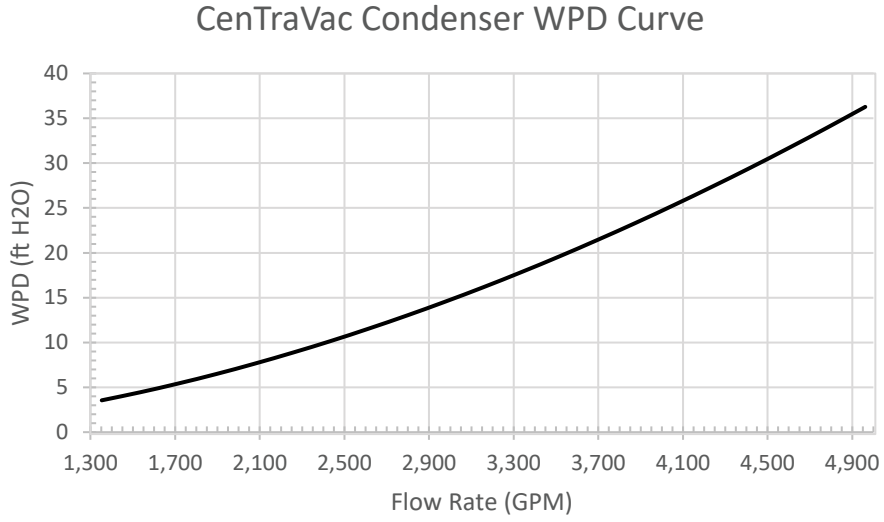
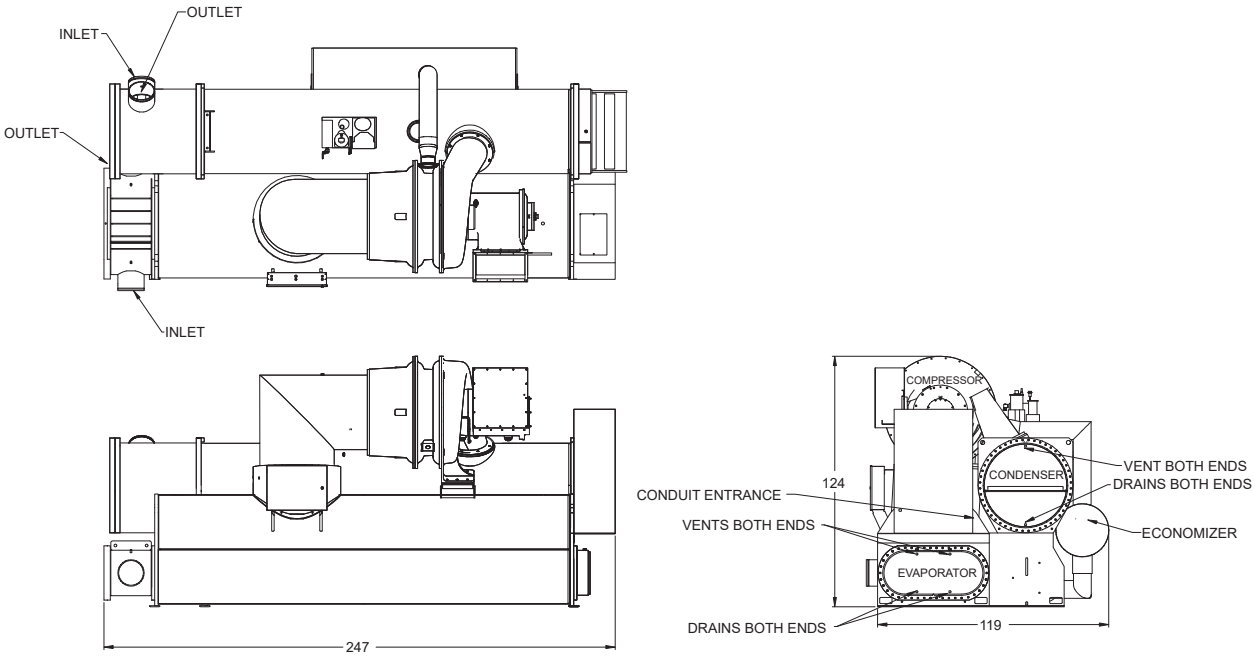


Figure 54. Unit drawings



CSCW1000F0AH and CSCW1000F0AJ

Table 112. General data

Labels	Value
Nominal Tons	1,000
Refrigerant	R-123
Refrigerant Charge	1,700 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	555/4,067
Condenser Min/Max Flow (GPM)	1,359/4,982
Evap Water Volume	265 Gal
Cond Water Volume	386 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 113. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Three Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	961 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	762 A
Starter Type	Star/Wye-Delta
LRAY	1,473 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 114. Dimensions and weights

Labels	Value
Length	21 ft. 3-in.
Width	9 ft. 8-in.
Height	11 ft.
Shipping Weight	39,000 lbs
Operating Weight	46,655 lbs
Lifting Device	Crane

Table 115. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	47-in.
Either End	48-in.
Top	36-in.

Table 116. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 117. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,283	1,283	1,284	1,295	1,262	1,195
55°F	1,184	1,195	1,196	1,196	1,196	1,129

Table 117. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,096	1,096	1,108	1,108	1,108	1,052
45°F	1,008	1,008	1,020	1,020	976	—
40°F	931	931	932	877	—	—

Figure 55. Evaporator PD curve

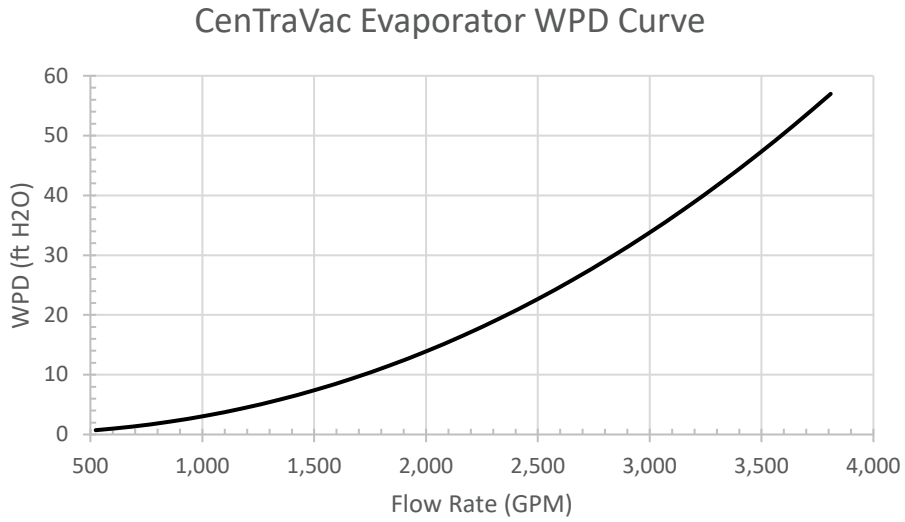


Figure 56. Condenser PD curve

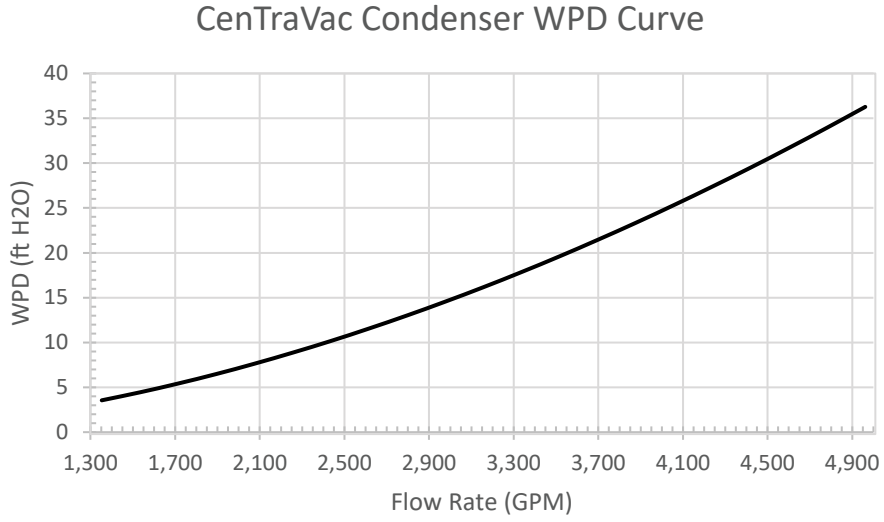
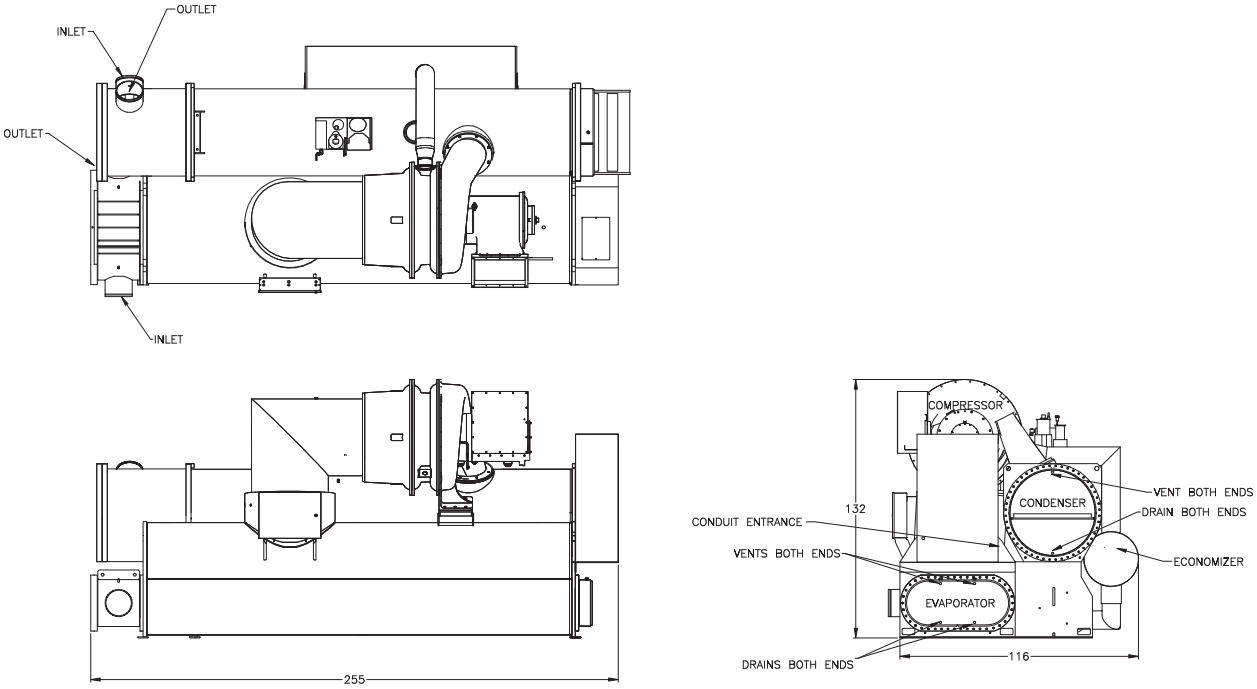


Figure 57. Unit drawings



CSCW1000F0AK and CSCW1000F0AL

Table 118. General data

Labels	Value
Nominal Tons	1,000
Refrigerant	R-123
Refrigerant Charge	1,700 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	555/4,067
Condenser Min/Max Flow (GPM)	1,359/4,982
Evap Water Volume	265 Gal
Cond Water Volume	386 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 119. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Three Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	1,028 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	814 A
Starter Type	Star/Wye-Delta
LRAY	1,732 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 120. Dimensions and weights

Labels	Value
Length	21 ft. 1-in.
Width	10 ft. 3-in.
Height	9 ft. 11-in.
Shipping Weight	38,000 lbs
Operating Weight	45,721 lbs
Lifting Device	Crane

Table 121. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	47-in.
Either End	48-in.
Top	36-in.

Table 122. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 123. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,274	1,288	1,288	1,288	1,246	1,190
55°F	1,190	1,190	1,190	1,190	1,190	1,120

Table 123. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,092	1,092	1,106	1,106	1,106	1,050
45°F	1,008	1,008	1,008	1,022	966	—
40°F	924	924	938	882	—	—

Figure 58. Evaporator PD curve

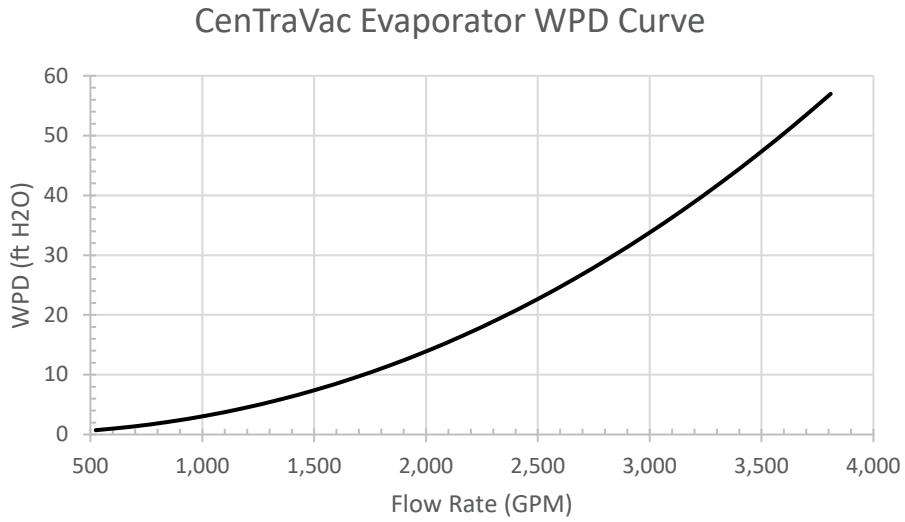


Figure 59. Condenser PD curve

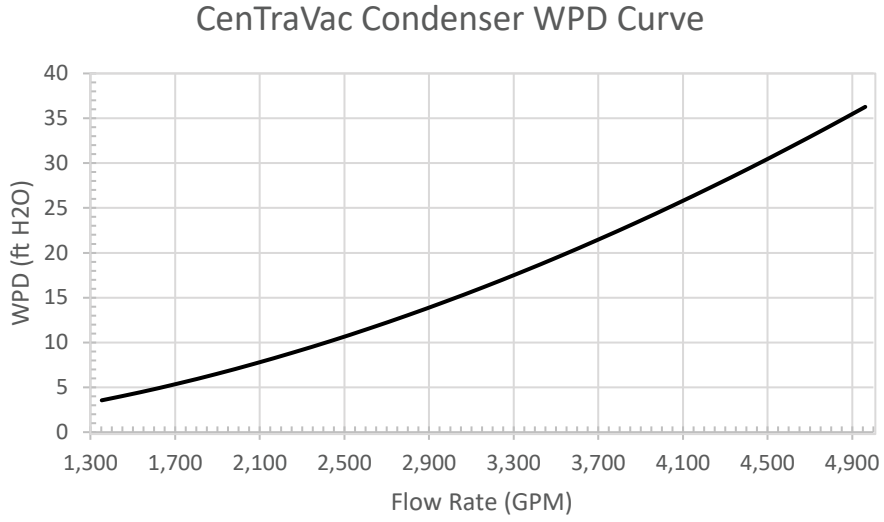
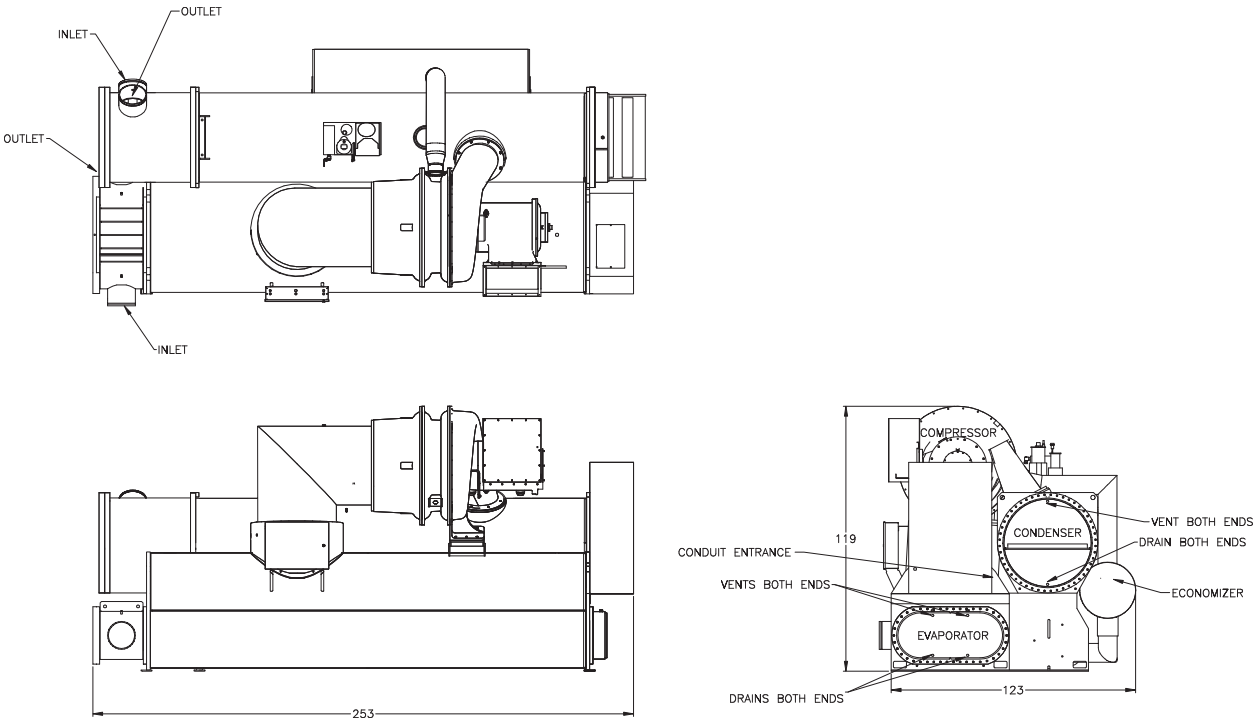


Figure 60. Unit drawings



CSCW1000F0AN and CSCW1000F0AO

Table 124. General data

Labels	Value
Nominal Tons	910
Refrigerant	R-123
Refrigerant Charge	1,700 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	555/4,067
Condenser Min/Max Flow (GPM)	1,359/4,982
Evap Water Volume	265 Gal
Cond Water Volume	386 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

(a) Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
(b) Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 125. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Hard Wire - Three Lugs with range up to 500KCMIL
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	1,003 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	794 A
Starter Type	Star/Wye-Delta
LRAY	1,732 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 126. Dimensions and weights

Labels	Value
Length	20 ft. 5-in.
Width	9 ft. 11-in.
Height	10 ft. 2-in.
Shipping Weight	38,000 lbs
Operating Weight	45,721 lbs
Lifting Device	Crane

Table 127. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	47-in.
Either End	48-in.
Top	36-in.

Table 128. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 129. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,274	1,288	1,288	1,288	1,246	1,190
55°F	1,190	1,190	1,190	1,190	1,190	1,120

Table 129. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,092	1,092	1,106	1,106	1,106	1,050
45°F	1,008	1,008	1,008	1,022	966	—
40°F	924	924	938	882	—	—

Figure 61. Evaporator PD curve

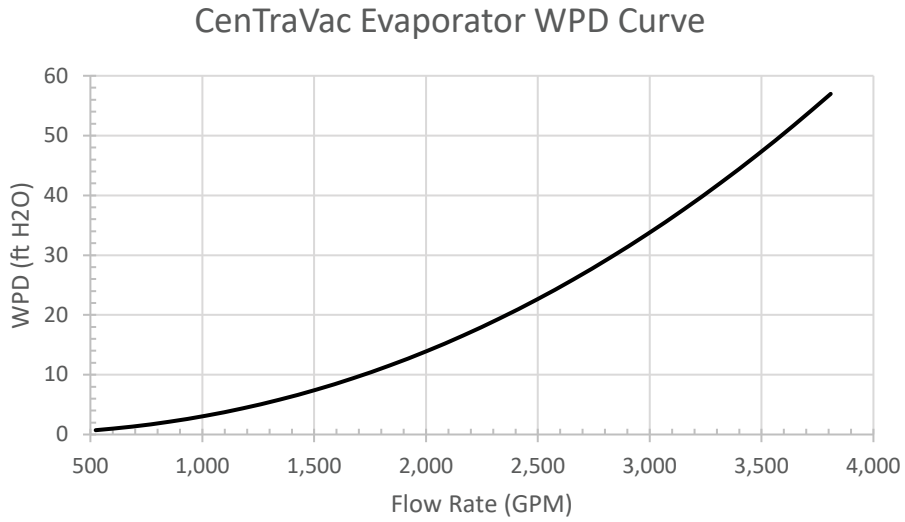


Figure 62. Condenser PD curve

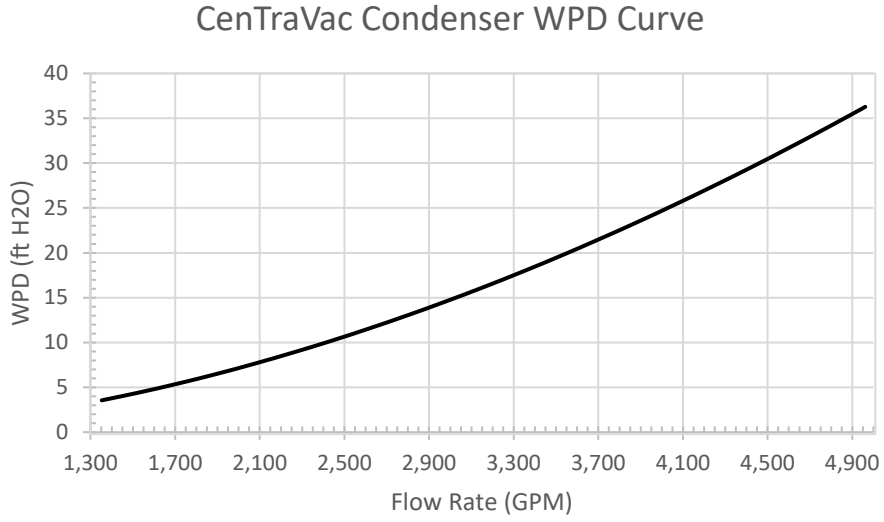
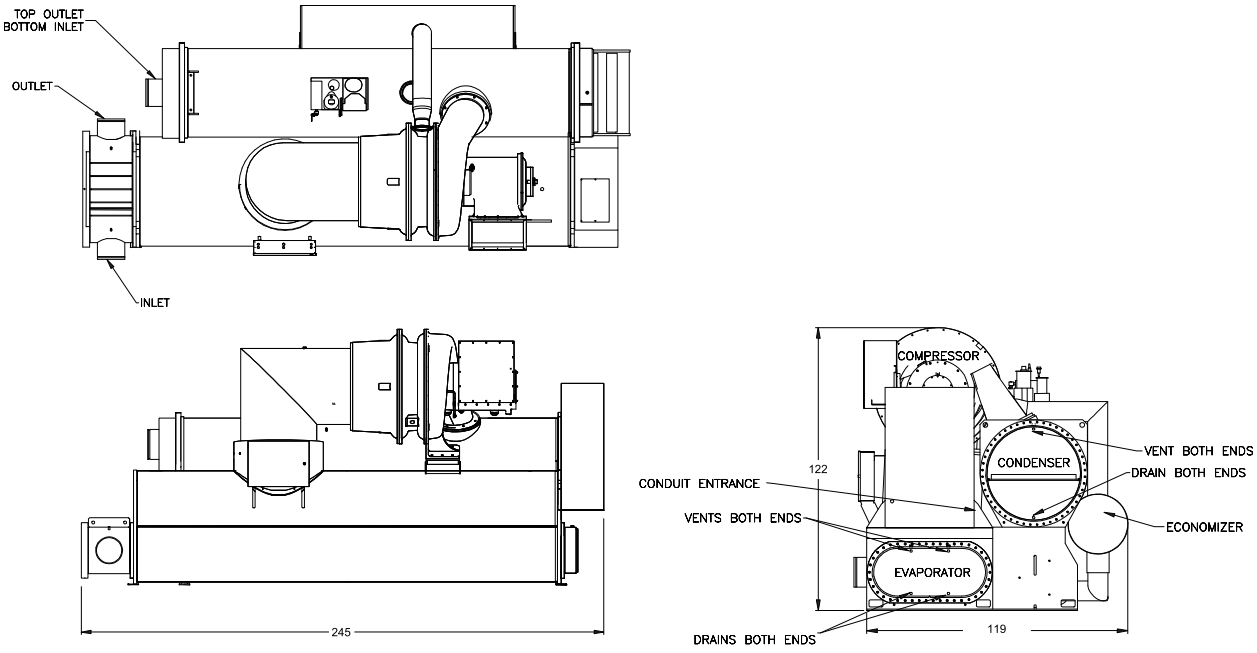


Figure 63. Unit drawings



CSCW1000F0AQ

Table 130. General data

Labels	Value
Nominal Tons	1,000
Refrigerant	R-123
Refrigerant Charge	1,700 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	522/3,809
Condenser Min/Max Flow (GPM)	1,353/4,961
Evap Water Volume	270 Gal
Cond Water Volume	390 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

(a) Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
(b) Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 131. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	1,001 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	793 A
Starter Type	Star/Wye-Delta
LRAY	1,873 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 132. Dimensions and weights

Labels	Value
Length	21 ft.
Width	9 ft. 10-in.
Height	10 ft. 2-in.
Shipping Weight	39,313 lbs
Operating Weight	46,931 lbs
Lifting Device	Crane

Table 133. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	47-in.
Either End	48-in.
Top	36-in.

Table 134. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 135. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,296	1,310	1,310	1,324	1,282	1,226
55°F	1,212	1,212	1,212	1,226	1,226	1,156

Table 135. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,114	1,128	1,128	1,128	1,128	1,044
45°F	1,030	1,030	1,030	1,030	946	—
40°F	946	946	932	862	—	—

Figure 64. Evaporator PD curve

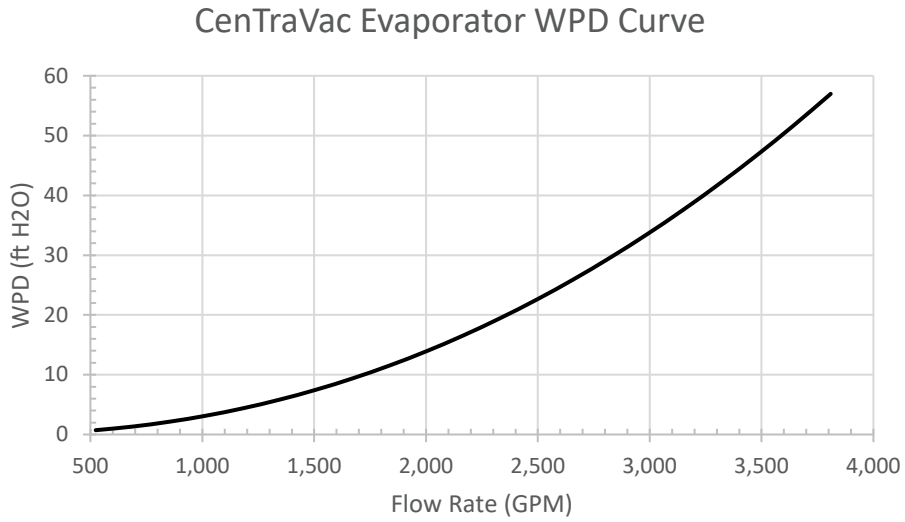


Figure 65. Condenser PD curve

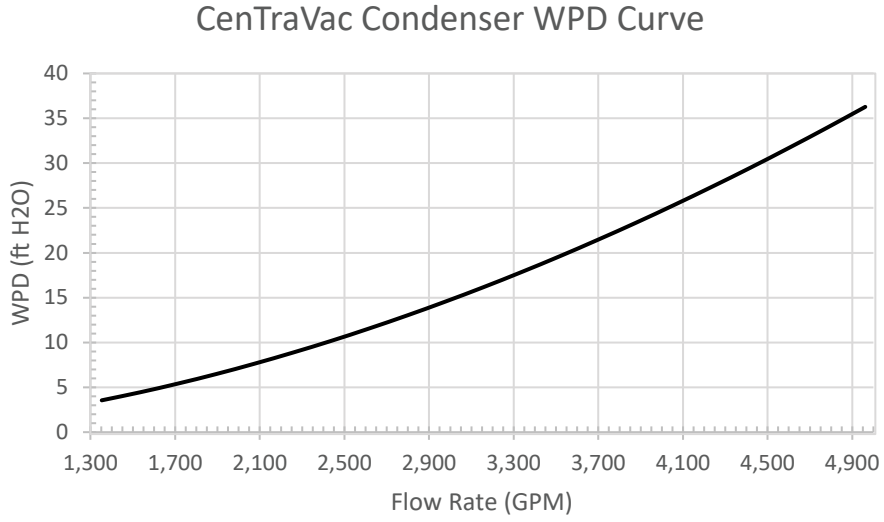
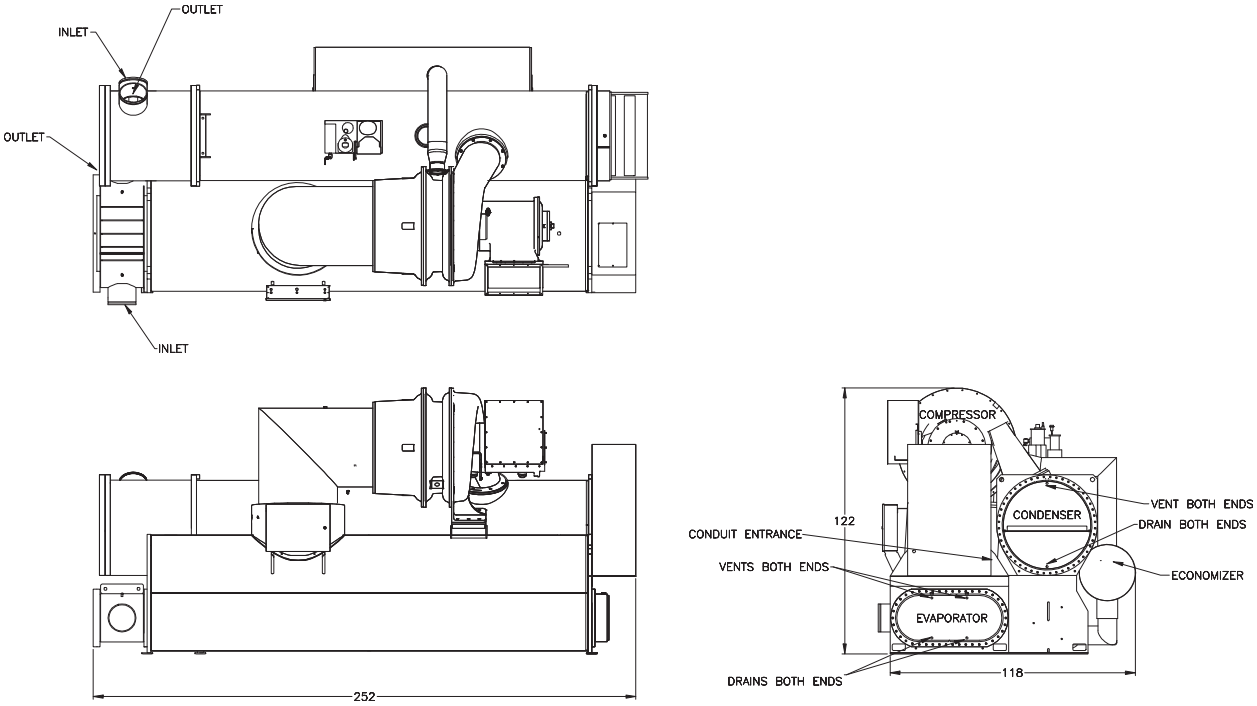


Figure 66. Unit drawings



RSCW1000F1AR

Table 136. General data

Labels	Value
Nominal Tons	1,000
Refrigerant	R-514A
Refrigerant Charge	1,400 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	522/3,809
Condenser Min/Max Flow (GPM)	1,353/4,961
Evap Water Volume	198 Gal
Cond Water Volume	262 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 137. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	959 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	760 A
Starter Type	Star/Wye-Delta
LRAY	1,873 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 138. Dimensions and weights

Labels	Value
Length	19 ft. 7-in.
Width	10 ft.
Height	10 ft. 2-in.
Shipping Weight	41,253 lbs
Operating Weight	47,012 lbs
Lifting Device	Crane

Table 139. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	46-in.
Either End	48-in.
Top	36-in.

Table 140. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 141. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,268	1,282	1,282	1,282	1,282	1,268
55°F	1,156	1,184	1,184	1,184	1,198	1,184

Table 141. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,086	1,100	1,100	1,100	1,100	1,058
45°F	1,002	1,002	1,016	1,016	960	—
40°F	918	918	932	862	—	—

Figure 67. Evaporator PD curve

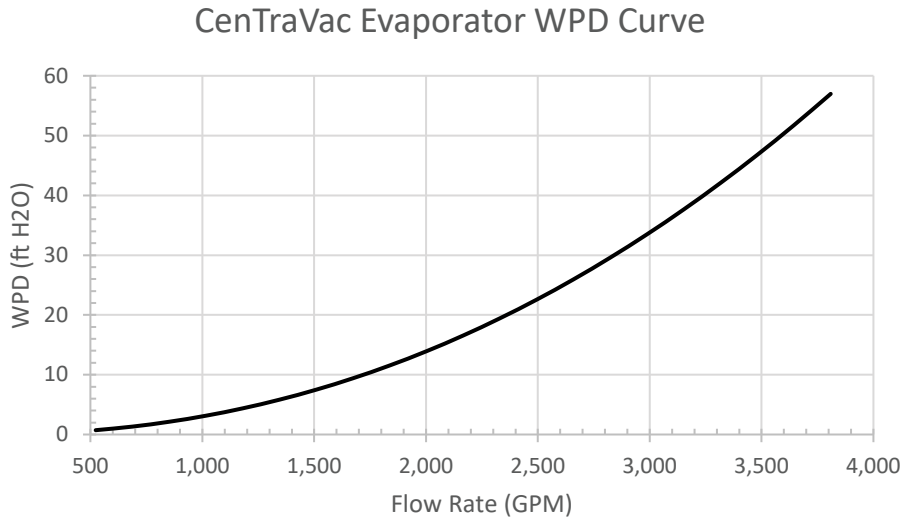


Figure 68. Condenser PD curve

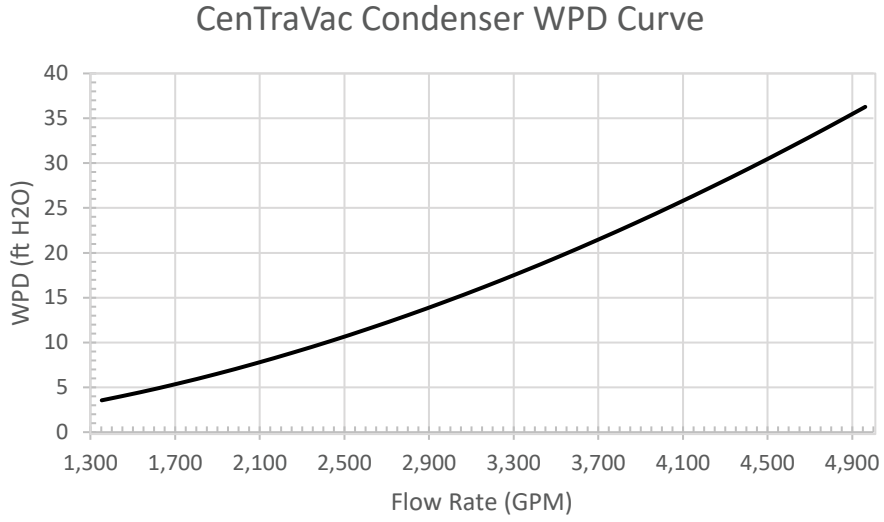
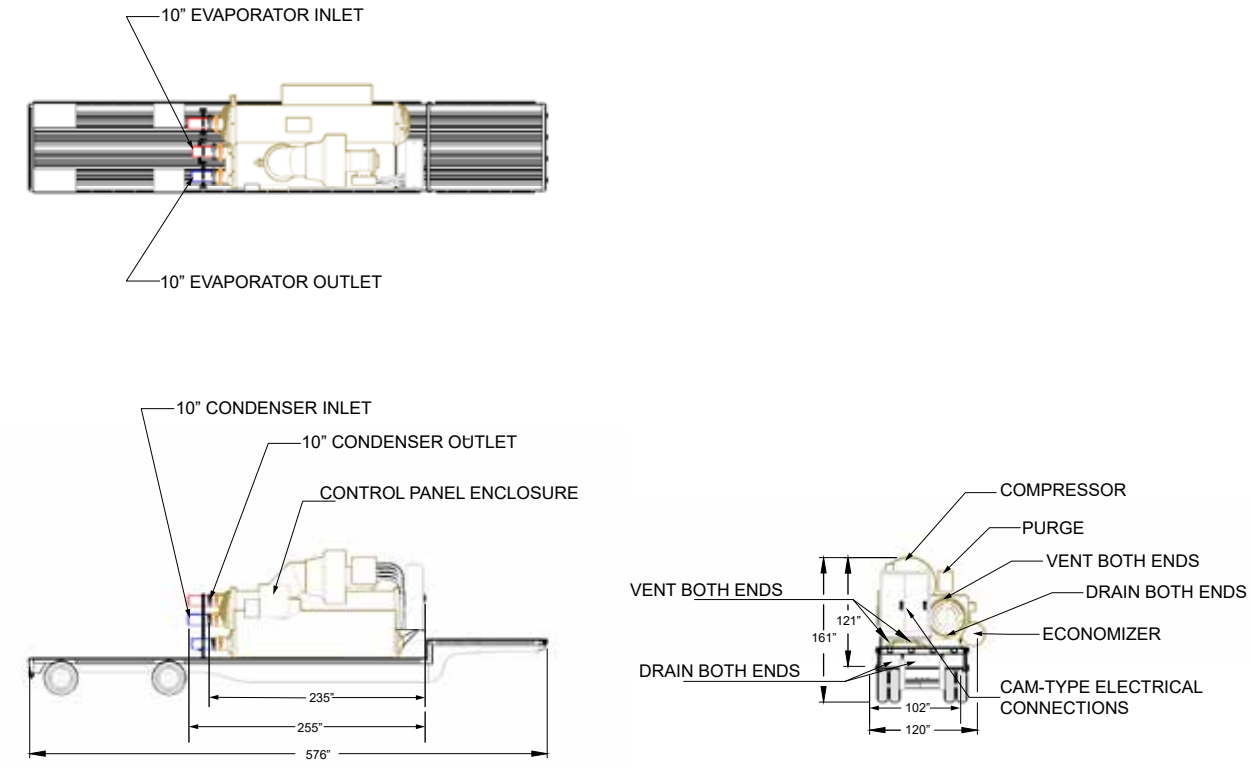


Figure 69. Unit drawings



RSCW1000F1AS, RSCW1000F1AT, and RSCW1000F1AU

Table 142. General data

Labels	Value
Nominal Tons	1,000
Refrigerant	R-514A
Refrigerant Charge	1,450 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	523/3,808
Condenser Min/Max Flow (GPM)	1,353/4,961
Evap Water Volume	198 Gal
Cond Water Volume	262 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 143. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	959 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	760 A
Starter Type	Star/Wye-Delta
LRAY	1,873 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 144. Dimensions and weights

Labels	Value
Length	19 ft. 7-in.
Width	10 ft.
Height	10 ft. 2-in.
Shipping Weight	36,012 lbs
Operating Weight	41,771 lbs
Lifting Device	Crane

Table 145. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	46-in.
Either End	48-in.
Top	36-in.

Table 146. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 147. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,268	1,282	1,282	1,282	1,282	1,268
55°F	1,156	1,184	1,184	1,184	1,198	1,184

Table 147. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,086	1,100	1,100	1,100	1,100	1,058
45°F	1,002	1,002	1,016	1,016	960	—
40°F	918	918	932	862	—	—

Figure 70. Evaporator PD curve

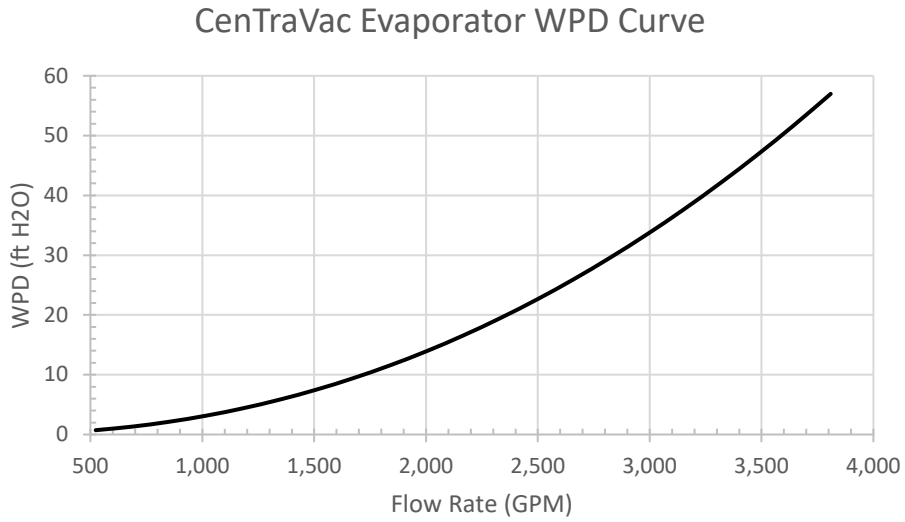


Figure 71. Condenser PD curve

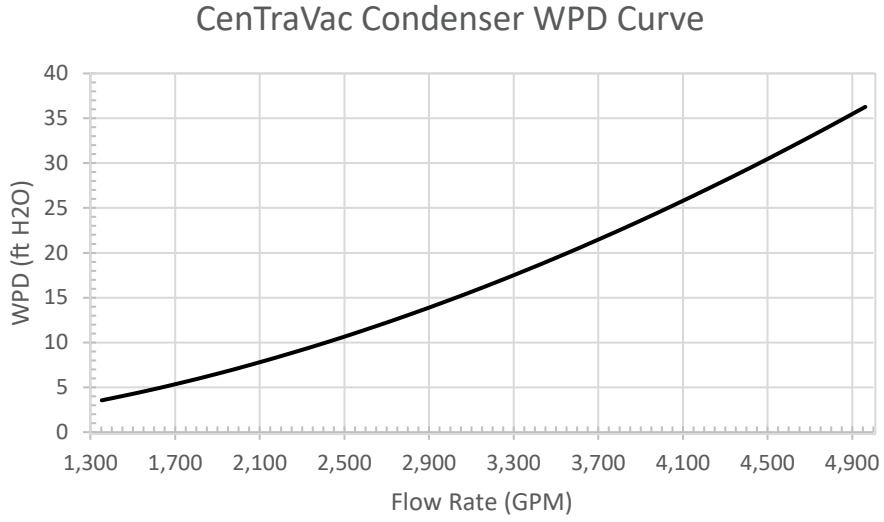
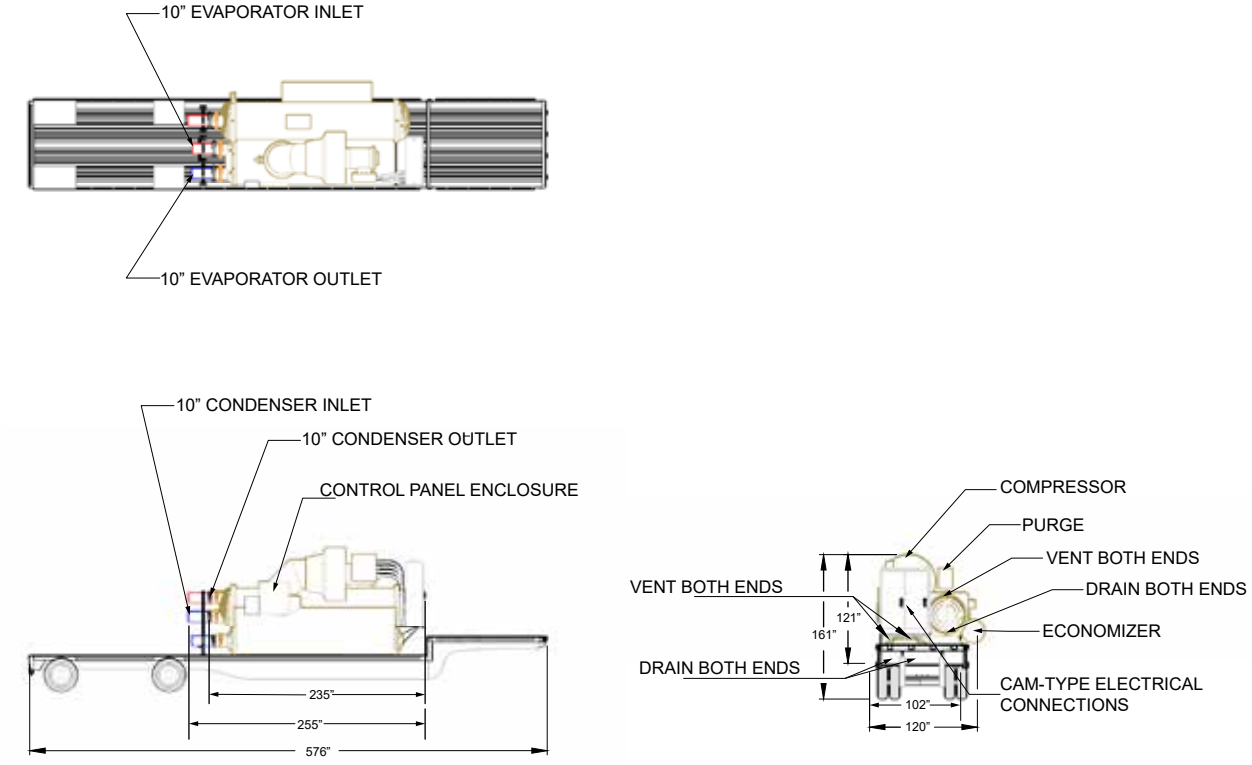


Figure 72. Unit drawings



RSCW1000F1AV – RSCW1000F1CF

Table 148. General data RSCW1000F1AV – RSCW1000F1CF

Labels	Value
Nominal Tons	1,000
Refrigerant	R-514A
Refrigerant Charge	1,450 lbs
Oil Charge	9 Gal
Water Connection Size	10-in. Victaulic
Min Load[a]	250 Tons
Evaporator Min/Max Flow (GPM)	522/3,809
Condenser Min/Max Flow (GPM)	1,353/4,961
Evap Water Volume	198 Gal
Cond Water Volume	262 Gal
Ambient Operating Conditions	34°F to 104°F
Chilled Water Setpoint Limits[b]	40°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

(a) Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.

(b) Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 149. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	963 A
Maximum Overcurrent Protection (MOP)	1,600 A
Run Load Amps (RLA)	763 A
Starter Type	Star/Wye-Delta
LRAY	1,873 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 150. Dimensions and weights

Labels	Value
Length	19 ft. 10-in.
Width	9 ft. 10-in.
Height	10 ft. 1-in.
Shipping Weight	42,146 lbs
Operating Weight	47,905 lbs
Lifting Device	Crane

Table 151. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	46-in.
Either End	48-in.
Top	36-in.

Table 152. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	82	83	84

Table 153. Capacity table

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	**75°F**	**80°F**	**85°F**	**90°F**	**95°F**
60°F	1,280	1,280	1,285	1,290	1,290	1,275
55°F	1,160	1,190	1,190	1,190	1,190	1,180

Table 153. Capacity table (continued)

Leaving Water Temp (Assumes 2,400 GPM)	Capacity in Tons					
	Condenser Entering Water Temp (Assumes 3,000 GPM)					
	70°F	75°F	80°F	85°F	90°F	95°F
50°F	1,095	1,100	1,100	1,100	1,100	1,065
45°F	1,010	1,010	1,010	1,010	960	—
40°F	920	920	930	860	—	—

Figure 73. Evaporator PD curve

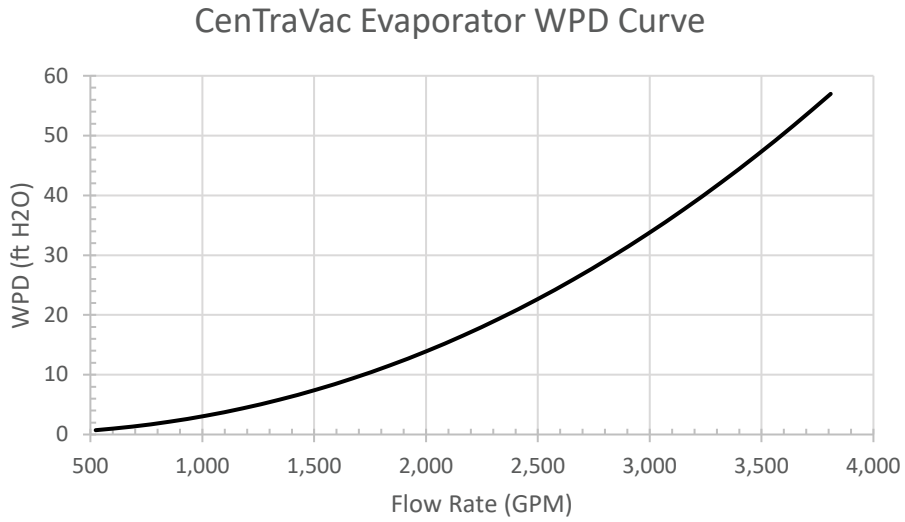


Figure 74. Condenser PD curve

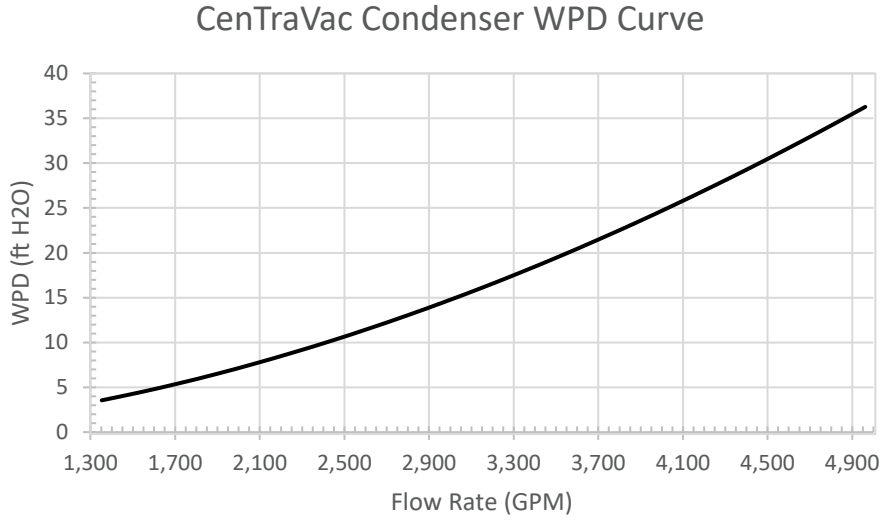
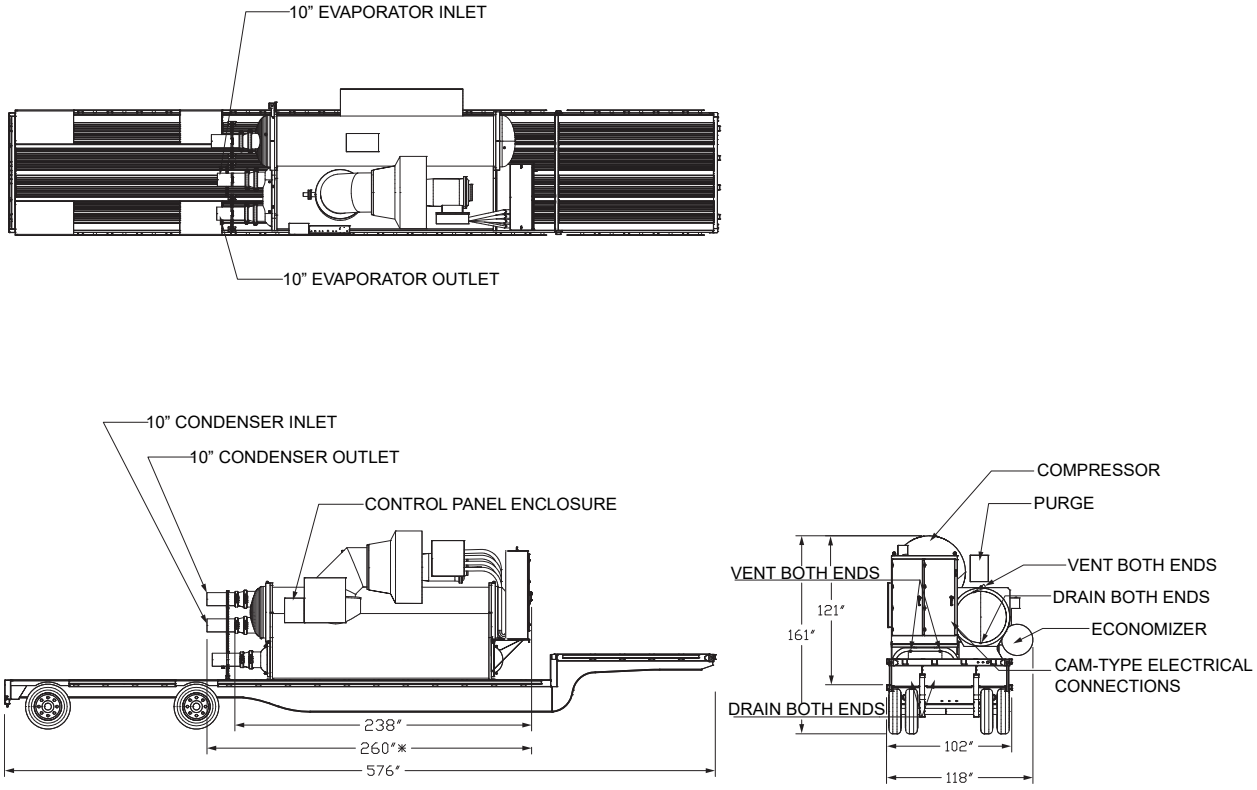


Figure 75. Unit drawings



Note: *Measurement can vary by 12 to 24 inches.*

430 Tons RTHD

430 Ton Water-Cooled

RSCW0430F2

Table 154. General data

Labels	Value
Nominal Tons	430
Refrigerant	R-134A
Refrigerant Charge	700 lbs
Oil Charge	12 Gal
Water Connection Size	6-in. Victaulic
Min Load[a]	107.5 Tons
Evaporator Min/Max Flow (GPM)	557/2,050
Condenser Min/Max Flow (GPM)	589/2,600
Evap Water Volume	159 Gal
Cond Water Volume	97 Gal
Ambient Operating Conditions	32°F to 104°F
Chilled Water Setpoint Limits[b]	10°F to 65°F
Number of Compressors	1
Max Operating Pressure Evaporator/Condenser	300 psi

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

[a] Must maintain minimum flow across evaporator and condenser to avoid damage/fouling. Minimum load based upon AHRI conditions, constant condenser temperatures.
[b] Setpoints only to be used as a guide, selection is required for actual chiller performance. Under certain conditions, leaving water temperatures below 40°F are possible. Please contact TRS Engineering for a performance selection for verification.

Table 155. Electrical data

Labels	Value
Number of Electrical Circuits	1
Voltage	460V 3-Phase
Frequency	60 Hz
Wire Connection Type[a]	Series 16 Cam-Type Only
SCCR	5,000 A
Minimum Circuit Ampacity (MCA)	431 A
Maximum Overcurrent Protection (MOP)	700 A
Run Load Amps (RLA)	344 A
Starter Type	Star/Wye-Delta
LRAY	730 A

[a] If using rental 4/0 wire, multiple conductors per phase required. For additional electrical information, contact Trane Rental Services.

Table 156. Dimensions and weights

Labels	Value
Length	16 ft. 5-in.
Width	7 ft. 10-in.
Height	7 ft. 7-in.
Shipping Weight	19,500 lbs
Operating Weight	21,635 lbs
Lifting Device	Forklift or Crane

Table 157. Installed/Operating clearances

Labels	Value
Front	48-in.
Back	36-in.
Either End	48-in.
Top	36-in.

Table 158. Sound data

Typical sound pressure (dBA)			
100% Load	**75% Load**	**50% Load**	**25% Load**
83	—	85	85.5

Table 159. Capacity table

Leaving Water Temp (Assumes 1,032 GPM)	[a] Propylene/ Ethylene Glycol%	Capacity in Tons							
		Condenser Entering Water Temp (Assumes 1,290 GPM)							
		55°F	65°F	70°F	75°F	80°F	85°F	90°F	95°F
60°F	0	—	—	—	422	592	577	561	545
55°F	0	—	—	423	555	541	526	512	497
45°F	0	—	482	471	459	447	434	421	408
35°F	10	412	393	383	372	362	351	340	329
25°F	25	321	306	298	289	281	272	263	254
15°F	35	255	242	235	228	221	213	206	198

[a] Performance below 25°F LWT requires Ethylene Glycol.

Figure 76. Evaporator PD curve

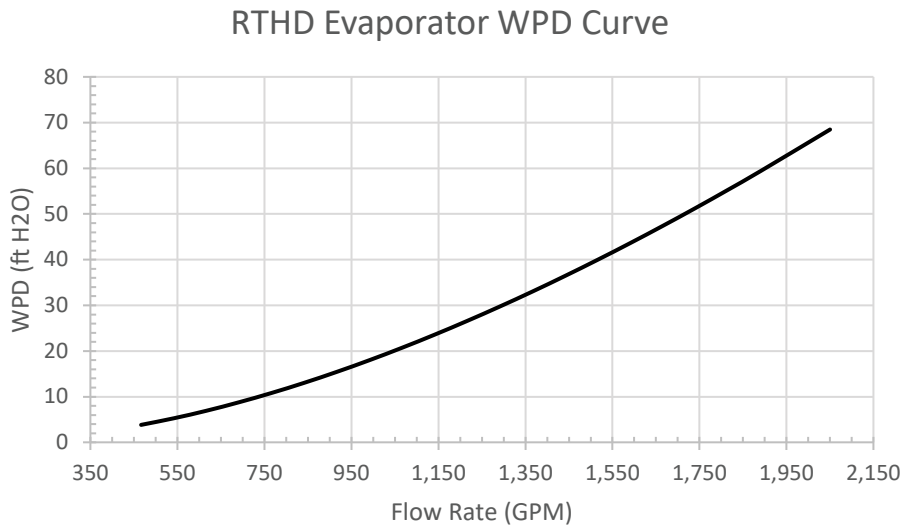


Figure 77. Condenser PD curve

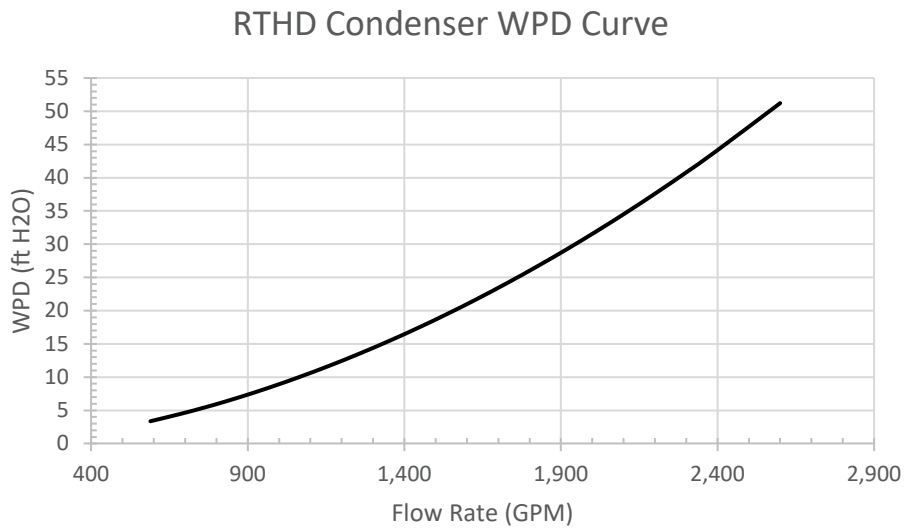
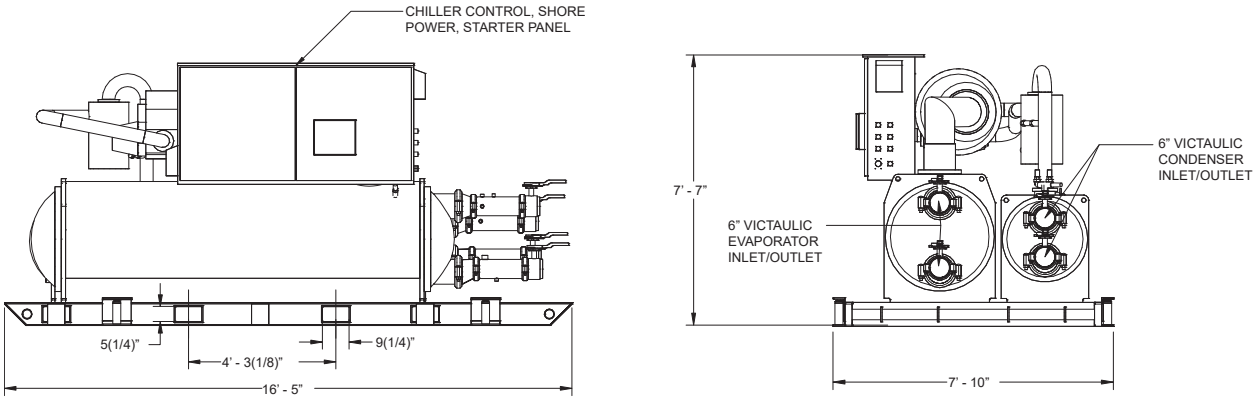


Figure 78. Unit drawings



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Trane has a policy of continuous product and product data improvements and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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