

Unit Info

Project: Air Cooled Condenser First Project	Revision: R0
Customer: TMU	Location:
Unit Tag:	Prepared By:
Date: 05/05/2026	Qty: 1
Tracking No:	

Overall Performance

Total Cooling Capacity	288.58 MBH	Total Heating Capacity	372.08 MBH
Sensible Capacity	199.82 MBH	Total Power Input (KW)	31.89
Air Flow	8,486 CFM	Altitude	0 ft
External Static Pressure	1.00 inWG	Refrigerant	R454B

Unit Electrical Data

Power supply	460/3/60	MOP	60
MCA	46		

Filter Details

Filter Class	MERV 8, Synthetic type	Filter holding frame	Expanded metal grid
Face velocity	364 ft/min		

Supply Fan

Fan Model	ATL11515BT	Motor Power	4.14
Fan Type	Forward	Power Supply	460 / 3 / 60
Drive Type		Motor Qty	1
Fan Qty	1	Motor FLA	10.7

Heat Exchanger Data

Fin Tube Type :

Coil Area	23.33 ft ²	Face Velocity	363.7ft/min
Tube Material	Copper	Tube Dia	3/8
Fin Material	Aluminum	Fin Thickness	0.006 inch

Plate Heat Exchanger :

Connection Size		Qty	2.00
Connection Type	FPT		

Condensate Drain :

Connection Size	
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Cooling Performance

Inlet DB Temp	80.0 °F	Outlet DB Temp	58.2 °F
Inlet WB Temp	67.0 °F	Outlet WB Temp	56.0 °F
Air Side Pressure Drop	2.08 inWG	Refrigerant Pressure Drop	2.01 PSI
Inlet Water Temp	86.0 °F	Leaving Water Temp	95.9 °F
Water Flow Rate	35.00000 US gpm	Water Pressure Drop	38.70 kPa

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Heating Performance

Inlet DB Temp	47.0 °F	Outlet DB Temp	85.6 °F
Inlet WB Temp	43.0 °F	Outlet WB Temp	59.7 °F
Air Side Pressure Drop	2.08 inWG	Refrigerant Pressure Drop	0.99 PSI
Inlet Water Temp	68.0 °F	Leaving Water Temp	60.2 °F
Water Flow Rate	35.00000 US gpm	Water Pressure Drop	57.86 kPa

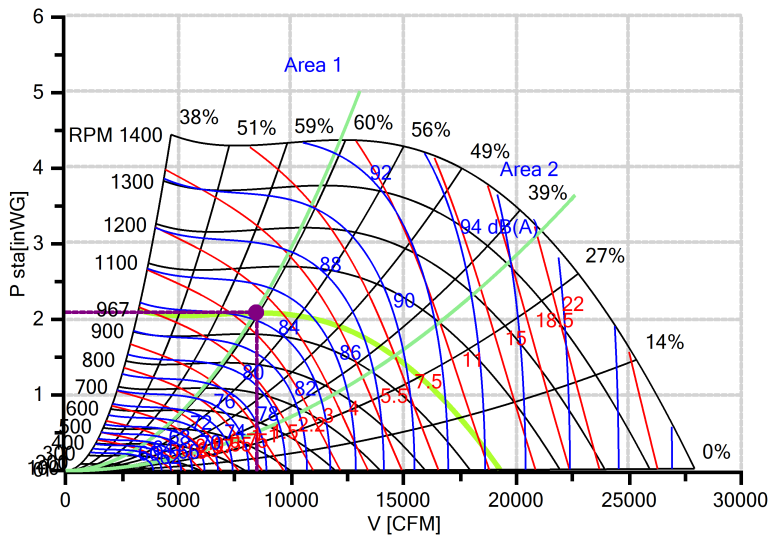
Compressor

Type	Hermetically sealed Scroll	Current (LRA)	140.0
Brand	Copeland	Qty	2
Power Supply	460/3/60	Power input	16.50
Current (RLA)	15.4	Refrigerant	R454B

Optional Features

Expansion Valve	1
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Fan Performance

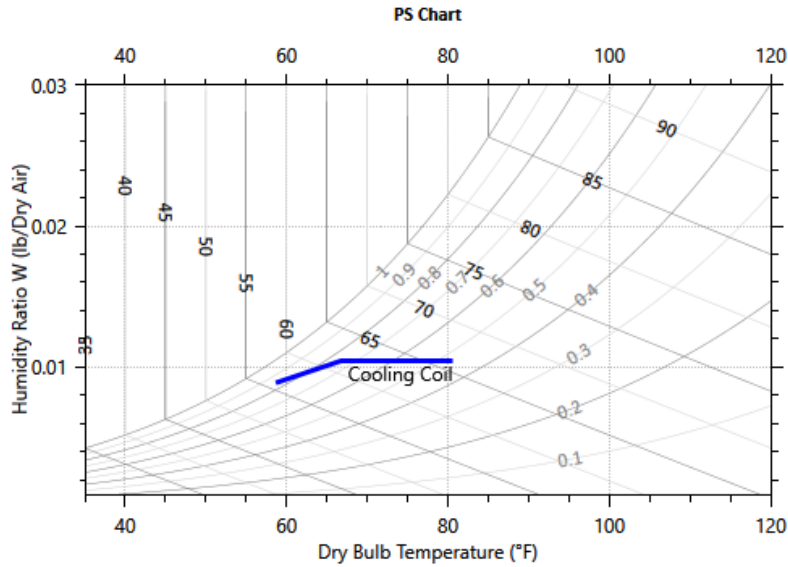


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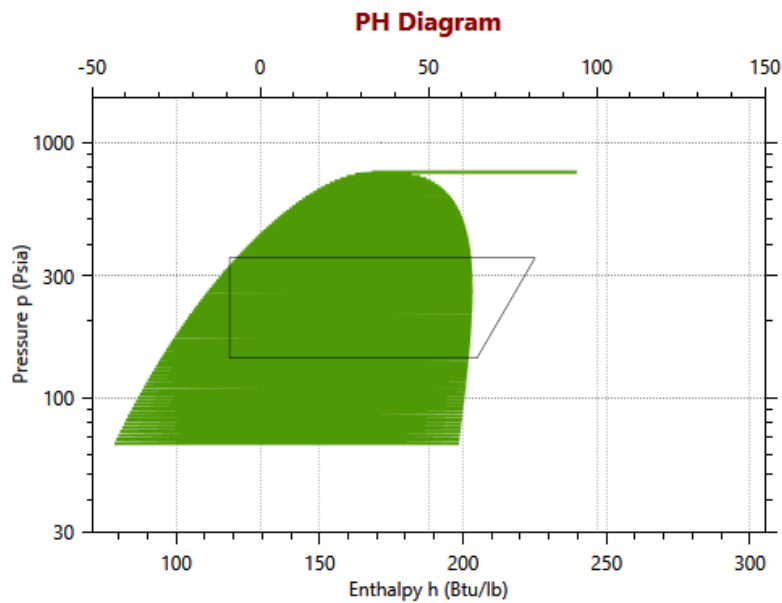
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PS Chart



PH Diagram



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DIMENSIONS KACR 280,320,360 & 420

