



Air-Cooled Chiller, Scroll Compressors

Job Information

	Hosp Univ Nal oct10 50mm pump												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Tag</td> <td>CGAM-CON BOM, CGAM-CON BO~1</td> </tr> <tr> <td>Model Number</td> <td>CGAM 100</td> </tr> <tr> <td>Quantity</td> <td>2</td> </tr> <tr> <td>Product Version</td> <td>168</td> </tr> <tr> <td>Unit nominal tonnage</td> <td>100 tons</td> </tr> <tr> <td>Unit type</td> <td>High efficiency</td> </tr> </table>	Tag	CGAM-CON BOM, CGAM-CON BO~1	Model Number	CGAM 100	Quantity	2	Product Version	168	Unit nominal tonnage	100 tons	Unit type	High efficiency	
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Product Version	168												
Unit nominal tonnage	100 tons												
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General Information

Sound attenuator package	Super quiet	IPLV	15.1 EER
Refrigerant	R410A	NPLV	16.9 EER
Capacity	110.40 tons	Sound power level	95 dBA
Full load efficiency	13.6 EER	Sound pressure level *	68 dBA

Note: * At 30 feet in free field.

Evaporator Information

Evaporator application	Std cooling	Fouling factor	0.00010 hr-sq ft-deg F/Btu
Entering temperature	54.00 F	Saturated temperature-ckt 1	37.40 F
Leaving temperature	44.00 F	Saturated temperature-ckt 2	37.40 F
Fluid flow rate	264.00 gpm	Minimum flow rate	144.40 gpm
Pressure drop	15.40 ft H2O	Pressure drop at min flow rate	6.40 ft H2O
Total PD evap+strainer	20.30 ft H2O	Maximum flow rate	346.60 gpm
Evap fluid type	Water	Pressure drop at max flow rate	34.40 ft H2O
Evap fluid freeze point	32.00 F	Freeze protection (factory inst)	Ext. t-stat control

Condenser Information

Unit application	High ambient	Total fan FLA	54.80 A
Ambient air temperature	72.00 F	Total airflow	72811 cfm
Elevation	8070.00 ft	Fin material	Lanced aluminum
Number of fans	8.00 Each	Saturated temperature-ckt 1	108.50 F
Fan motor power	7.80 kW	Saturated temperature-ckt 2	108.60 F

Compressor Information

Number of compressors	4		<u>RLA</u>	<u>LRA</u>
Number of circuits	2	Compressor A	84.60 A	560.00 A
Capacity steps	4	Compressor B	84.60 A	560.00 A
Total compressor power	89.40 kW	Compressor D	84.60 A	560.00 A
		Compressor E	84.60 A	560.00 A

Electrical Information

Unit voltage	230 volt 3 phases		<u>MCA</u>	<u>MOP</u>
Unit hertz	60 hertz	Single point power	417.90 A	500.00 A
Short circuit	Default	Incoming power line connection	Single point	
Short circuit rating	5000.00 A	Starter type	Across the line	
Unit power	97.50 kW			



Note: Unit power includes: compressors, condenser fans, and control kW

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages using the Vapor Compression Cycle Certification Program which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI directory at www.ahridirectory.org.



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Tag Model Number Quantity Product Version Unit nominal tonnage Unit type	CGAM-CON BOM, CGAM-CON BO~1 CGAM 100 2 168 100 tons High efficiency	

Physical Information

Length	165.900 in	Water connections	4.000 in
Width	89.000 in	Refrigerant charge circuit 1	90.0 lb
Height	92.500 in	Refrigerant charge circuit 2	90.0 lb
Operating weight	6759.1 lb	Oil charge circuit 1	3.54 gal
Shipping weight	6646.4 lb	Oil charge circuit 2	3.54 gal

Information for LEED Projects

ASHRAE 90.1/CSA compliance	All versions	IPLV	15.1 EER
Refrigerant charge circuit 1	90.0 lb	Rated capacity (AHRI)	98.60 tons
Refrigerant charge circuit 2	90.0 lb		

Note: This product meets the minimum efficiency requirements of ASHRAE Standard 90.1 and CANS/CSA C743 for all versions (which are based on AHRI standard rating conditions) and, therefore, also meets the LEED "Minimum Energy Performance" prerequisite in the Energy and Atmosphere section.

The LEED Green Building Rating System™, developed by the U.S. Green Building Council, provides independent, third-party verification that a building project meets green building and performance measures.