

Ascend(TM) Air-Cooled Chiller Model ACR

Job Information

		Job01	
		TIG	
Tag	ACRA-1	Nominal tonnage	225 ton
Model number	ACRA225		
Quantity	1	TOPSS version number	226

General Data

Refrigeration capacity	789.7 kW	IPLV.IP	5.74 COP (kW/kW)
Cooling efficiency	3.550 COP (kW/kW)	NPLV.IP	5.80 COP (kW/kW)

Evaporator Information

Evaporator application	Standard cooling (40-65F)	Evaporator configurations	3 pass evaporator
Evap fouling factor	0.0176 m2-deg K/kW	Evaporator fluid type	Water
Leaving fluid evap	7.00 C	Evap fluid concentration	
Entering fluid evap	12.50 C	Evap fluid freeze point	0.00 C
Flow evap	34.21 L/s	Saturated evap temp - ckt 2	6.29 C
Fluid pressure drop evap	146.8 kPa	Saturated evap temp - ckt 1	5.87 C
Flow switch	Flow switch water -35 cm/s		

Condenser Information

Ambient air temp	35.00 C	Saturated cond temp - ckt 1	53.38 C
Elevation	0.000 m	Saturated cond temp - ckt 2	53.66 C
Condenser fin options	CompleteCoat fins	RLA - condenser fan (each)	3.30 A
Number of condenser fans	12.00 Each	Unit application	Low ambient
Fan power	15.00 kW		

Electrical Information

Compressor starter	AFD	RLA - comp A - AFD input	193.00 A
Incoming power line connection	Single point power	RLA - comp B - AFD input	193.00 A
Unit voltage	380. volt 3 phases	Short circuit current rating	10000.00 A
Unit hertz	50. hertz	Short circuit withstand rating	Default amp
Total power	222.3 kW	Single point power MCA	478.00 A
Compressor power	206.9 kW	Single point power MOP	600.00 A
Transformer	No transformer	Power line connection type	Terminal block
		Line voltage harmonic	Line reactors (~30% TDD)

Physical Information

Length	8555 mm	Refrig (HFC-134a) - ckt 1	120 kg
Width	2230 mm	Refrig (HFC-134a) - ckt 2	120 kg
Height	2432 mm	Oil charge - ckt 1	15.14 L
Operating weight	7015 mm	Oil charge - ckt 2	15.14 L
Shipping weight	6915 mm	Drive cooling charge - ckt 1	0.00 m3
		Drive cooling charge - ckt 2	0.01 m3

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Acoustical Performance

Unit sound package	Superior	Fan speed	
A-weighted sound power	97 dBA	A-weighted sound pressure *	69 dBA
A-weighted 75% sound power	94 dBA	A-weighted 75% sound	66 dBA
A-weighted 50% sound power	87 dBA	A-weighted 50% sound	58 dBA
A-weighted 25% sound power	85 dBA	A-weighted 25% sound	56 dBA
Note: * At 30 feet in free field.			

This unit complies with the efficiency requirements of ASHRAE Standard 90.1 2010 and CANS/CSA C743-09.

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.



Information for LEED Projects

ASHRAE 90.1/CSA compliance	ASHRAE 90.1 - 2016	Cooling efficiency	3.55 COP (kW/kW)
Refrig (HFC-134a) - ckt 1	120 kg	IPLV.IP	5.74 COP (kW/kW)
Refrig (HFC-134a) - ckt 2	120 kg	Compressor power	206.9 kW
Rated refrigeration capacity	778.6 kW	Fan power	15.00 kW
Rated cooling efficiency (AHRI)	3.520 COP (kW/kW)		
Note: This product meets the minimum efficiency requirements of ASHRAE Standard 90.1 and CANS/CSA C743 version 2007 (which are based on AHRI standard rating conditions) and, therefore, also meets the LEED "Minimum Energy Performance" prerequisite in the Energy and Atmosphere section. Refer to the product catalog for performance at AHRI standard rating conditions.			
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.			