



Design Conditions Datasheet

Unit Tag	Qty	Model No	Net Cooling Capacity (ton.R)	Nominal Voltage	Refrigerant Type
CH-1	2	YLAA0230HE58XCBBXTX	149.5	575-3-60.0	R410A

PIN:								
YLAA0230HE	58XCBBXTXA	SXBLXCXX24	SE1XXXHXXX	XAXGXXXXXB	XVXXB1XXH6			
...5...10	...5...20	...5...30	...5...40	...5...50	...5...60	...5...70	...5...80	...5...90

Evaporator Data		Evaporator Data (Cont.)		Performance Data	
EWT (°F)	34.00	Fluid Volume (USGAL)	12.68	EER (Btu/W-h)	7.598
LWT (°F)	24.00	Min. Flow Rate (USGPM)	220.3	NPLV.IP (Btu/W-h)	12.67
Design Flow Rate (USGPM)	383.1	Max. Flow Rate (USGPM)	624.5		
Evap. Press. Drop (ft H2O)	17.0				
Fluid	Propylene Glycol (%) 40	Condenser Data		Physical Data	
Strainer Press. Drop (ft H2O)	3.72	Ambient Temp. Design (°F)	95.0	Rigging Wt. (lb)	11100
Ext. Kit Press. Drop (ft H2O)	8.62	Altitude (ft)	0.000	Operating Wt. (lb)	11228
Total Press. Drop (ft H2O)	29.3	Compressor Type	Scroll - Hermetic	Refrigerant Charge (lb)	200.2
Fouling Factor (h.ft ² .F/Btu)	0.000100				

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	52 / 52 / 52	52 / 52 / 52		
Fan QTY/FLA (each)	6 / 2.9	6 / 2.9		
High LRA Current	375 / 375 / 375	375 / 375 / 375		

Single Point				
Min. Circuit Ampacity	377			
Recommended Fuse/CB Rating	400			
Max. Inverse Time CB Rating	400			
Max. Dual Element Fuse Size (A)	400			
Unit Short Circuit Withstand (STD)	5 [kA]			
Wires Per Phase	2 + 1			
Wire Range (Lug Size)	#3/0 AWG - 250 kcmil + 250 - 500 kcmil			
Starter Type	Across The Line			
			Operating Condition Electrical Data	
			Compressor kW	215.9
			Total Fan kW	20.16
			Total kW	236.1
			Total kW with Hydrokit Power	247.3

Notes:

This unit does not have a coil coating selected.

Outside the scope of AHRI Air-Cooled Water-Chilling Packages Using Vapor Compression Cycle Certification Program, but is rated in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Auxiliary components included in total kW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power

Compliant with the requirements of the LEED Energy and Atmosphere Enhanced Refrigerant Management Credit (EAc4).

Part Load Rating Data				
Stage	Ambient (°F)	Capacity (ton.R)	Total kW	Unit Efficiency
1	95.0	149.5	236.1	7.598
2	88.2	132.6	180.0	8.837
3	80.6	113.7	130.1	10.49
4	71.2	90.19	87.50	12.37
5	60.6	63.84	51.01	15.02
6	55.0	31.61	24.17	15.69

Sound Power Levels (In Accordance with AHRI 370)										
Stage	Ambient (°F)	63 Hz (dB)	125 Hz (dB)	250 Hz (dB)	500 Hz (dB)	1 kHz (dB)	2 kHz (dB)	4 kHz (dB)	8 kHz (dB)	LWA
1	95.0	102	101	99	99	96	93	87	93	101
2	88.2	100	100	98	98	95	92	86	92	100
3	80.6	98	98	96	96	93	91	84	91	98
4	71.2	96	96	94	94	92	89	83	89	97
5	60.6	93	93	92	92	90	87	80	87	94
6	55.0	90	90	89	89	87	84	77	84	91

Note: Unit is equipped with Low Sound Fans with VSD Control.

Performance at AHRI Conditions					
Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54.00	Ambient Temp. (°F)	95.0	EER (Btu/W·h)	10.20
LWT (°F)	44.00	Altitude (ft)	0.000	IPLV.IP (Btu/W·h)	16.70
Flow Rate (USGPM)	528.5			Net Cooling Capacity (ton.R)	221.4
Pressure Drop (ft H ₂ O)	18.2				
Fluid	Water				
Fouling Factor (h.ft ² .F/Btu)	0.000100				
Fluid Volume (USGAL)	12.68				

Note: Unit rated at design condition capacity.