



Air Cooled Screw Chiller Performance Datasheet

Unit Tag	Qty	Model No	Net Cooling Capacity (TR)	Nominal Power Volts-Ph-Hz	Refrigerant Type
UNIT0	1	YVAA0233BEF46BAVBXO	203.0	460-3-60	R-134a

PIN:								
YVAA0233BE	F46BAVBXOX	TAXLXXXX60	42XOTXXS20	3X1SXSA2BA	XF7XNXXXXX	XH5SX		
...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)	54	Fluid Volume (USGAL)	58.1	EER (EER)	7.7
LWT (°F)	42	Min. Flow Rate (USGPM)	250	NPLV (EER)	14.4
Design Flow Rate (USGPM)	404.7	Max. Flow Rate (USGPM)	950		
Total Press. Drop (ft H2O)	7.4	Condenser Data		Physical Data	
Fluid	Water	Ambient Temp. Design (°F)	105	Rigging Wt. (lb)	15676
Fouling Factor (h.ft ² .F/Btu)	0.0001	Altitude (ft)	0	Operating Wt. (lb)	16138
		User Min. Operating Air Temp. (°F)	41	Refrigerant Charge (lb)	509.3
		User Max. Operating Air Temp. (°F)	113		
		Compressor Type	VSD Screw - Semi Hermetic		

Electrical Data				
Circuit	1	2	3	4
Compressor RLA	218	190		
Fan QTY/FLA (each)	7 / 3.3	5 / 3.3		

Single Point				
Min. Circuit Ampacity	506			
Min. Fuse / CB Rating (A)	600			
Max. Fuse / CB Rating (A)	700			
Unit Short Circuit Withstand (STD)	65 kA [kA]			
Wire Lugs Per Phase	2			
Wire Range (Lug Size)	#1 ~ 500 kcmil			
Displacement Power Factor	0.95			
Control kVA	2			
			Operating Condition Electrical Data	
			Compressor kW	296.6
			Total kW	317.2

Notes:

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Using Vapor Compression Cycle 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. Auxiliary components included in total KW - Oil heaters, Chiller controls. Auxiliary power is already included in the compressor and fan power



Min DSD (Factory Purpose/Use only): 80 psig
 * Use Copper Conductors only
 Displacement Power Factor refers to compressor only. Unit Power Factor depends on fan option selected. Calculated value is available by request.
 Actuated suction service valves ARE selected
 Minimum and maximum evaporator flow information is for full load ratings with water only. Contact Johnson Controls for application limits for glycol and variable primary flow.
 Evaporator Passes: 2, Condenser Type: A, Fan Type: F
 Exclusion of actuated suction service valves will require incorporation of additional freeze protection including use of glycol, pump control or draining the evaporator.



Air Cooled Screw Chiller Performance Datasheet

Part Load Rating Data				
Load %	Ambient (°F)	Capacity (TR)	Total kW	Unit Efficiency
100	105	203	317.2	7.7
75	80	152.2	142.3	12.8
50	65	101.5	78.7	15.5
25	55	50.7	36.3	16.8

Sound Power Levels (In Accordance with AHRI 370)										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100	105	97	97	98	101	97	92	88	85	102
75	80	97	97	98	97	94	88	84	80	99
50	65	97	97	98	97	94	88	84	79	98
25	55	93	93	94	94	90	84	80	76	95

Note: Unit is equipped with Low Sound Fans.

Performance at AHRI Conditions					
Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54	Ambient Temp. (°F)	95	EER (EER)	9.7
LWT (°F)	44	Altitude (ft)	0	IPLV (EER)	14.8
Flow Rate (USGPM)	480			Net Cooling Capacity (TR)	203
Pressure Drop (ft H2O)	9.9				
Fluid	Water				
Fouling Factor (h.ft ² .F/Btu)	0.0001				
Fluid Volume (USGAL)	58.1				