

Design Conditions Datasheet

Notes:

Certified in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating 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 power



ASHRAE Standard 90.1-2010 Compliant.

Part Load Rating Data

Load %	Capacity (ton.R)	COND EWT (°F)	COND LWT (°F)	Total kW	Unit Efficiency (kW/ton.R)
100	110.9	85.00	94.30	83.62	0.7542
77	85.90	75.99	82.90	50.38	0.5865
57	62.83	67.67	72.58	29.75	0.4734
24	26.97	65.00	67.09	12.02	0.4455

Sound Pressure Levels (In Accordance with AHRI 575)

Load %	63 Hz (dB)	125 Hz (dB)	250 Hz (dB)	500 Hz (dB)	1 kHz (dB)	2 kHz (dB)	4 kHz (dB)	8 kHz (dB)	LpA
100	85	67	78	79	84	83	73	64	88
77	85	65	75	77	83	82	72	62	87
57	82	64	75	76	81	80	70	61	85
24	82	55	64	72	78	78	67	56	82

THE OCTAVE AND A-WEIGHTED SOUND PRESSURE LEVELS ARE THE LEVELS EXPECTED TO BE OBTAINED IF MEASUREMENTS ARE PERFORMED IN ACCORDANCE WITH AHRI STANDARD 575-08, METHOD OF MEASURING MACHINERY SOUND WITHIN EQUIPMENT ROOMS.

[REPORT_UNIT.SOUND.SOUNDNOTES.2:NotFound]

TOLERANCES: THE SOUND LEVEL OF IDENTICAL UNIT SELECTIONS CAN VARY DUE TO MANUFACTURING TOLERANCE AND TEST REPEATABILITY. VARIATIONS OF +/-3 dBA ON THE A-WEIGHTED LEVELS AND +/-5 DB ON THE OCTAVE BAND LEVELS ARE POSSIBLE.

Performance at AHRI Conditions

Evaporator Data		Condenser Data		Performance Data	
EWT (°F)	54.00	EWT (°F)	85.00	EER (Btu/W·h)	15.91
LWT (°F)	44.00	LWT (°F)	94.30	IPLV.IP (Btu/W·h)	23.78
Flow Rate (USGPM)	265.3	Flow Rate (USGPM)	349.1	Net Cooling Capacity (ton.R)	110.9
Pressure Drop (ft H2O)	15.2	Pressure Drop (ft H2O)	20.2		
Fluid	Water	Fluid	Water		
Fouling Factor (h.ft².F/Btu)	0.000100	Fouling Factor (h.ft².F/Btu)	0.000250		
Fluid Volume (USGAL)	37.30	Fluid Volume (USGAL)	26.95		