

Unit Overview

Range	Water cooled screw
Model	RTSF 086 HT R1233zd
Unit application	High Temperature
Compressor type	Screw
Refrigerant type	R1233zd unit with Nitrogen (with oil)
Evaporator type	Brazed Plate Heat Exchanger
Evaporator size	Evaporator 2
Condenser type	Brazed Plate Heat Exchanger
Condenser size	Condenser A
Outdoor Operation	Indoor
Electrical panel selection	AFD D
Electrical supply	400/50/3ph



Project Conditions 1

	Evap	CDs
Fluid entering temperature	50.0 C	52.0 C
Fluid leaving temperature	42.0 C	75.0 C
Fluid Type	Water	Water
Fluid freezing point	0.0 C	0.0 C
Fouling Factor	0.017600 m2-deg C/kW	0.044000 m2-deg C/kW

Performance data at Condition 1

	Evap	CDs
Gross capacity	319.58 kW	383.72 kW
Net capacity	319.47 kW	383.76 kW
Total absorbed gross power	65.93 kW	65.93 kW
Total absorbed net power	66.16 kW	66.16 kW
Gross EER / COP	4.850 kW/kW	5.820 kW/kW
Net EER / COP	4.830 kW/kW	5.800 kW/kW
Design flow	9.68 L/s	4.06 L/s
Fluid pressure drop (Design)	7.0 kPa	3.6 kPa
Min Flow	4.80 L/s	2.74 L/s
Max Flow	38.60 L/s	38.60 L/s

Acoustic data (cooling mode)

Sound power level (Lw)				84 dBA			
Sound pressure level (10m)(Lp)				52 dBA			
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Sound Power spectrum (Lw)	78 dB	87 dB	80 dB	80 dB	73 dB	65 dB	60 dB

Note: Sound Power Level (dB(A) and Octave Band) at 45/40-85/80°C operating condition.

Note: Average sound pressure at specified distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level. Sound power based on measurements compliant with ISO 9614

General data - refrigerant circuit

Refrigerant type	R1233zd unit with Nitrogen (with oil)	
Refrigerant GWP (AR6)	3.88	teq CO2
Number of circuits	1	
Number of compressor	1	
Compressor type	HiVi Compressor	
Compressor regulation type	Adaptive Frequency Drive	
Refrigerant charge	40 kg	
Oil charge	7.00 L	

Construction features (evaporator)

Evaporator size	Evaporator 2	
Water connection	4 in	
Evaporator water side pressure	10 Bar evaporator water pressure	
Evaporator application	High Temperature	

Construction features (condenser)

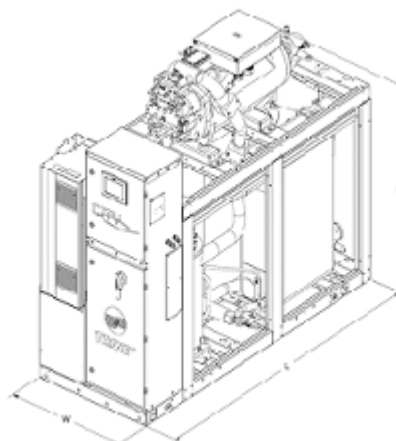
Condenser size	Condenser A	
Water connection	4 in	
Condenser water side pressure	10 Bar condenser water pressure	

Electrical data

Electrical supply	400/50/3ph	
Electrical panel selection	AFD D	
Compressor starter type	AFD	
Start up current	158.00 A	
Maximum current	158.00 A	
Displacement power factor	0.98	
Short Circuit Current SCC	35000.00 A	
Incoming Power Line Conn. Type	Single Source	
Max absorbed power	107.00 kW	

Dimensions and weight

Length	2241 mm	
Width	901 mm	
Height	2050 mm	
Shipping weight including packaging	2058 kg	
Weight	2176 kg	





Job Name: PR2504_### Vivantes
Seidelbastweg SBW SVZ2
Speiseverteilungszentrum
Prepared For:

Unit Tag: RTSF-86 HT 50

Quantity: 1

Applicable standards

(1) EN14825:2022

(2) EN14511:2022

(3) ISO 9614

(4) ASHRAE 90.1

Note Sound Power Level (dB(A) and Octave Band) at 45/40-85/80°C operating condition.

More information

Model Number	RTSF086DE**HBCXTEL4H2XXXXTXXAXXXHCBX1CB0XXM3PX1XBDXXDX
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