

Unit Overview

Range	Water cooled screw	
Model	RTWF 140 HSE R513A	
Unit Application	Standard Condenser Temp	
Compressor type	GP2 LoVi	
Compressor technology type	Screw	
Refrigerant type	Full charge (R513A)	
Seasonal space energy efficiency (s,c) / SEER (1)	6,88	272,00 % Compliant
SEPRHT	7,74	Non-compliant
SEPRMT	4,51	Compliant
Evaporator type	Shell & Tubes Heat Exchanger	
Evaporator size	Evaporator E165C	
Evap Application	Comfort Cooling (above 4.4C)	
Condenser type	Shell & Tubes Heat Exchanger	
Condenser size	Condenser C3AS2	
Condenser Configuration	Standard pass	
Electrical supply	400.0V-50.0Hz-3Ph	



Project Conditions 1

	Evap	CDs
Fluid entering temperature	12,0 C	40,0 C
Fluid leaving temperature	6,0 C	45,0 C
Fluid Type	Water	Water
Fluid freezing point	0,0 C	0,0 C
Fouling Factor	0,017615 m2-deg K/kW	0,044000 m2-deg K/kW

Performance data at Condition 1

	Evap	CDs
Gross capacity	404,50 kW	522,02 kW
Net capacity	403,72 kW	523,80 kW
Total absorbed gross power	119,22 kW	119,22 kW
Total absorbed net power	121,77 kW	121,77 kW
Gross EER / COP	3,39 EER (kW/kW)	4,38 COP (kW/kW)
Net EER / COP	3,32 EER (kW/kW)	4,30 COP (kW/kW)
Design flow	16,04 L/s	25,39 L/s
Fluid pressure drop (Design)	22,8 kPa	42,2 kPa
Min Flow	10,80 L/s	12,60 L/s
Max Flow	47,10 L/s	46,10 L/s

Acoustic data (cooling mode)

Sound power level (Lw)	95 dBA
Sound pressure level (10m)(Lp)	63 dBA

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	Full charge (R513A)	
Expansion valve	Undersized Expansion valve	
Refrigerant Global Warming Potential	629,00 Number	
Number of circuits	1	
Number of compressors (circuit 1 / 2... n)	2	
Compressor regulation type	Variable Speed	
Refrigerant charge (circuit 1 / 2)	102 kg	
Oil charge (circuit 1 / 2... n)	10 kg	

Construction features (evaporator)

Evap Configuration	Std Pass Evaporator	
Evaporator size	Evaporator E165C	
Water connection	12,70 cm	
Evap Water Side Pressure	10 Bar Evaporator Water Pressure	
Evap Application	Comfort Cooling (above 4.4C)	

Construction features (condenser)

Condenser Configuration	Standard pass	
Condenser size	Condenser C3AS2	
Water connection	15,24 cm	
Water pressure	10 Bar Condenser Water Pressure	
Tube Material	Enhanced Fin + Copper	

Electrical data

Electrical supply	400.0V-50.0Hz-3Ph	
Compressor starter type	AFD	
Start up current	323,00 A	
Maximum current	216,00 A	
Displacement power factor	0,91	
Short Circuit Current SCC	35 kA	
Incoming Power Line Conn. Type	Single Line	
Max absorbed power	136,00 kW	

Weights and Dimensions

Length	3080 mm	2 Stück !
Width	1260 mm	
Height	1935 mm	
Shipping weight including packaging	3108 kg	
Operating weight	3296 kg	

Applicable standards

(1) EN14825:2018
(2) EN14511:2016
(3) ISO 9614
(4) ASHRAE 90.1

More information

Ecodesign datasheet	https://www.trane.com/litweb/Litweb.aspx?#/category/bd13efa5-a5bf-4f0a-afb4-9eab178d9081/range/a1a2a06b-b5ae-492a-bc17-b8ada8833fac/model/52d85bbf-edb0-4da9-bb5c-5f4d47dab9a9/section/0f2c1be5-1fa8-45e6-af4d-c8e7a235f35e
Model Number	RTWF140DE**HBC2X3L4L6CXDXNN32X*NXHCXFDBB01XXXXXWB DXUXX