

Unit Overview

Model			
Unit Application	Water to water Cooling application		
Compressor type	Standard SST compressors		
Refrigerant type	Full charge (R513A)		
Seasonal space energy efficiency (s,c) / SEER (1)	7.85	311	Compliant
SEPR HT	8.76		Compliant
Evaporator size	8B-Evaporator E257B		
Configuration	Std Pass Evaporator		
Condenser size	7A-Condenser C57 MJ		
Electrical supply	400V/50Hz/3Ph		

Project Conditions 1

	Evap	CDs
Fluid entering temperature	11.0 C	41.0 C
Fluid leaving temperature	6.0 C	46.0 C
Fluid Type	Water	Ethylene
Fluid concentration		35.00 %
Evap fluid freeze point	0.0 C	-19.0 C
Fouling Factor	0.000000 m2-deg K/kW	0.000000 m2-deg K/kW

Performance data at Condition 1

	Evap	CDs
Gross capacity	700.54 kW	892.62 kW
Net capacity	700.01 kW	893.35 kW
Total absorbed gross power	192.28 kW	192.28 kW
Total absorbed net power	197.87 kW	197.87 kW
Gross EER / COP	3.64 EER (kW/kW)	4.64
Net EER / COP	3.54 EER (kW/kW)	4.51
Design flow	33.36 L/s	46.72 L/s
Fluid pressure drop (Design)	36.6 kPa	52.3 kPa
Min Flow	18.2 L/s	20.5 L/s
Max Flow	66.7 L/s	75.2 L/s

Acoustic data (cooling mode)

Sound power level (Lw)	91 dBA
Sound pressure level (10m) (Lp)	74 dBA

General data - refrigerant circuit

Refrigerant type	Full charge (R513A)	
Refrigerant GWP (AR4)	631.00	teq CO2
Number of circuits	2	
Number of compressors (circuit 1 / 2... n)	2	
Refrigerant charge (circuit 1 / 2)	85 kg	85 kg

Construction features (evaporator)

Configuration	Std Pass Evaporator
Evaporator size	8B-Evaporator E257B
Water connection	2 Pass Left hand
Water pressure	10 Bar Evaporator Water Pressure
Evap Application	Comfort Cooling

Construction features (condenser)

Condenser size	7A-Condenser C57 MJ
Water connection	2 Pass Left Hand
Water pressure	10 Bar Condenser Water Pressure

Electrical

Electrical supply	400V/50Hz/3Ph
Compressor starter type	AFD integrated
Start up current	463.00 A

Weights and Dimensions



Length	2976 mm
Width	1125 mm
Height	1870 mm
Shipping weight including packaging	2680 kg
Operating weight	3018 kg

Applicable standards

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

More information

Ecodesign datasheet	
Model Number	