



Unit Overview

Range	CONQUEST		
Model	CXAX 60 SE SN		
Unit application	Heat pump		
Compressor type	Scroll		
Refrigerant type	Full charge R410A		
Operating map	Standard ambient		
Seasonal space energy efficiency (Eta s,c) / SEER (1)	172 %	4.38	Compliant
Seasonal space energy efficiency (Eta s,h) / SCOP (1)	133 %	3.41	Compliant
SEPR HT	5.18		Compliant
SEPR MT	3.55		Compliant
Heat recovery	Without		
Type of pump	No pumps and no contactor		
Electrical supply	400V-50Hz-3Ph		



Project conditions

	Cooling	Heating
Outdoor air dry bulb temperature	35.0 C	7.0 C
Relative humidity		90 %
Fluid entering temperature	12.0 C	40.0 C
Fluid leaving temperature	7.0 C	45.0 C
Fluid type	Water	Water
Fluid Freezing Point	0.0 C	0.0 C
Fouling Factor	0.000002 m2-deg K/kW	0.000002 m2-deg K/kW
Elevation	0.0 m	0.0 m

Unit performance data

	Cooling	(1)	Heating	(1)
Gross capacity	155.63 kW		161.26 kW	
Net capacity	155.32 kW		161.58 kW	
Total absorbed power	56.05 kW		52.98 kW	
Gross EER / COP	2.78 EER (kW/kW)		3.04 COP (kW/kW)	
Net EER / COP	2.73 EER (kW/kW)		3.01 COP (kW/kW)	
Design flow rate	7.40 L/s		7.80 L/s	
Waterside Heat Exchanger Pressure drop	48.5 kPa		46.7 kPa	
Evaporator Min Flow	3.9 L/s		3.9 L/s	
Evaporator Max Flow	11.6 L/s		11.6 L/s	

Acoustic data

Outdoor sound power level				91 dBA				(4)
Outdoor sound pressure level				60 dBA				(3)
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
Outdoor Sound spectrum (Lw)	94 dB	91 dB	87 dB	88 dB	83 dB	74 dB	63 dB	

**General data - refrigerant circuit**

Refrigerant type	Full charge R410A
Refrigerant GWP (AR4)	1924
Number of circuits	2
Number of compressors per circuit	2
Unit minimum load	25.00 %
Refrigerant charge per circuit	14 kg
Oil charge per circuit	7 kg

General data - fan section

Number of fans	4
Fan type	AC Axial
Total nominal airflow	52477.80 m3/hr

Electrical data

Electrical supply	400V-50Hz-3Ph
Compressor soft starter	Across the line
Start-up current	293.00 A
Maximum running current	126.00 A
Maximum power at maximum current	72.00 kW
Displacement power factor (cos-phi)	0.833

Dimensions and weight

Length	2327 mm
Width	2250 mm
Height	1724 mm
Operating weight	1163 kg



Note: Dimensions and weight include sound attenuation, hydraulic module, heat recovery and/or free cooling - if selected. Image is for illustration purposes only, options may not be shown.

Applicable standards

- (1) According to EN14825:2018, considering average climate; SEER Compliance 2021, SCOP Compliance 2017, SEPR HT Compliance 2021, SEPR MT Compliance 2018
- (2) According to EN14511:2018
- (3) Average sound pressure at 10 meter distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level
- (4) Sound power measurements in accordance with ISO 9614:2009 (part 1)

More information

Model Number	CXAX060E1**1BXAXXXAA1BXXAXXA1AXXXXXX4X3XXV1XXXXX	Video QR code
Ecodesign datasheet	https://www.trane.com/litweb/Litweb.aspx?#/category/bd13efa5-a5bf-4f0a-afb4-9eab178d9081/range/b74e96bd-4126-4223-8f8e-b32ceedbf233/model/dc7016f4-41b0-4fbb-91cc-06ced1b6c39f/section/fbf546b8-23dd-4f18-bfbe-f3041ad1268f	