

**Unit Overview**

Range	CONQUEST		
Model	CXAX 60 SE LN		
Unit application	Heat pump		
Compressor type	Scroll		
Refrigerant type	Full charge R454B		
Operating map	Low ambient		
Seasonal space energy efficiency (Eta s,c) / SEER (1)	152 %	3.89	Not applicable
SEPR HT	5.34		Compliant
SEPR MT	3.62		Compliant
Heat recovery	Without		
Type of pump	Single pump standard pressure		
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	30.0 C
Fluid leaving temperature	7.0 C	35.0 C
Fluid type and concentration	Ethylene Glycol / 30.00 %	
Fluid Freezing Point	-15.0 C	-15.0 C
Fouling Factor	0.017620 m2-deg K/kW	0.017620 m2-deg K/kW
Elevation	0.0 m	0.0 m

**Unit performance data**

	Cooling	(1)	Heating	(1)
Gross capacity	147.20 kW		157.03 kW	
Net capacity	147.46 kW		156.64 kW	
Total absorbed power	52.01 kW		42.58 kW	
Gross EER / COP	2.72 EER (kW/kW)		3.68 COP (kW/kW)	
Net EER / COP	2.78 EER (kW/kW)		3.63 COP (kW/kW)	
Design flow rate	7.70 L/s		8.10 L/s	
Waterside Heat Exchanger Pressure drop	50.2 kPa		47.4 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, Lw(A)				88 dBA				(4)
Outdoor sound pressure level, Lp(A)				56 dBA				(3)
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
Sound power spectrum (Lw)	86 dB	83 dB	82 dB	84 dB	81 dB	70. dB	60. dB	

**Hydraulic module data**

Type of pump	Single pump standard pressure
Design flow rate	7.70 L/s
Available head - user side	82.0 kPa
Pump power absorbed	2.12 kW

**General data - refrigerant circuit**

<b>Refrigerant type</b>	Full charge R454B
<b>Refrigerant GWP (AR4)</b>	466
<b>Number of circuits</b>	2
<b>Number of compressors per circuit</b>	2
<b>Unit minimum load</b>	25.00 %
<b>Refrigerant charge per circuit</b>	12 kg
<b>Oil charge per circuit</b>	7 kg

**General data - fan section**

<b>Number of fans</b>	4
<b>Fan type</b>	AC Axial & VFD
<b>Total nominal airflow</b>	49127.00 m3/hr

**Electrical data**

<b>Electrical supply</b>	400V-50Hz-3Ph
<b>Compressor soft starter</b>	Across the line
<b>Start-up current</b>	300.00 A
<b>Maximum running current</b>	132.00 A
<b>Maximum power at maximum current</b>	77.00 kW
<b>Displacement power factor (cos-phi)</b>	0.843

**Dimensions and weight**

<b>Length</b>	2327 mm
<b>Width</b>	2250. mm
<b>Height</b>	1947 mm
<b>Operating weight</b>	1210. 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 EN14825:2022, considering average climate; SEER Compliance 2021, SCOP Compliance 2017, SEPR HT Compliance 2021, SEPR MT Compliance 2018
- (2) According to EN14511:2022
- (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**

<b>Model Number</b>	CXAX060E1**1BXCXX2XBA3BXXAXXXA4AXX5XXX4X4XXTXXXXXX	<b>Video QR code</b>
<b>Ecodesign datasheet</b>	<a href="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">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</a>	