

**Unit Overview**

Range	CONQUEST		
Model	CGAX 23 SE LN		
Unit application	Cooling only unit		
Compressor type	Scroll		
Refrigerant type	Full charge R454B		
Operating map	Low ambient		
Seasonal space energy efficiency (Eta s,c) / SEER (1)	161 %	4.11	Compliant
SEPR HT	5.43		Compliant
SEPR MT	3.58		Compliant
Heat recovery	Without		
Type of pump	Single pump standard pressure		
Electrical supply	400V-50Hz-3Ph		

**Project conditions**

	Cooling		
Outdoor air dry bulb temperature	35.0 C		
Fluid entering temperature	12.0 C		
Fluid leaving temperature	7.0 C		
Fluid type and concentration	Ethylene Glycol	/	30.00 %
Fluid Freezing Point	-15.0 C		
Fouling Factor	0.017620 m2-deg K/kW		
Elevation	0.0 m		

Unit performance data

	Cooling	(1)
Gross capacity	61.78 kW	
Net capacity	61.96 kW	
Total absorbed power	20.67 kW	
Gross EER	2.84 EER (kW/kW)	
Net EER	2.92 EER (kW/kW)	
Design flow rate	3.20 L/s	
Evaporator Pressure drop (Design)	54.7 kPa	
Evaporator Min Flow	1.6 L/s	
Evaporator Max Flow	4.8 L/s	

Acoustic data

Outdoor sound power level, Lw(A)		84 dBA						(4)
Outdoor sound pressure level, Lp(A)		52 dBA						(3)
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
Sound power spectrum (Lw)	83 dB	80. dB	79 dB	81 dB	76 dB	66 dB	57 dB	

Hydraulic module data

Type of pump	Single pump standard pressure
Design flow rate	3.20 L/s
Available head - user side	92.3 kPa
Pump power absorbed	1.09 kW

**General data - refrigerant circuit**

Refrigerant type	Full charge R454B
Refrigerant GWP (AR4)	466
Number of circuits	1
Number of compressors per circuit	2
Unit minimum load	43.00 %
Refrigerant charge per circuit	7 kg
Oil charge per circuit	7 kg

General data - fan section

Number of fans	2
Fan type	AC Axial & VFD
Total nominal airflow	23993.70 m3/hr

Electrical data

Electrical supply	400V-50Hz-3Ph
Compressor soft starter	Across the line
Start-up current	185.00 A
Maximum running current	53.00 A
Maximum power at maximum current	30.00 kW
Displacement power factor (cos-phi)	0.840

Dimensions and weight

Length	2346 mm
Width	1285 mm
Height	1747 mm
Operating weight	606 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

Model Number	CGAX023E1**1BXCXX2XBA3HXXAXXA4AXX5XXX4X4XXTXXXXXX	Video QR code
Ecodesign datasheet	https://www.trane.com/litweb/Litweb.aspx?#/category/bd13efa5-a5bf-4f0a-afb4-9eab178d9081/range/a1a2a06b-b5ae-492a-bc17-b8ada8833fac/model/8234b149-20ff-41a9-9c2b-e189f8956901/section/253f733a-00d1-4518-82aa-904bab800d8d	