

**Unit Overview**

Range	Sintesis Advantage		
Chiller model	CGAF air cooled scroll		
Model	CGAF 150 HE XLN		
Unit Application	High ambient (-10C to 52C)		
Compressor type	Scroll		
Refrigerant Type	Full charge R410A		
Seasonal space energy efficiency (Eta s,c) / SEER (1)	169.80 %	4.32	Non Compliant
SEPR HT	5.96		Compliant
SEPR MT	3.82		Compliant
Type of free cooling	No Free Cooling		
Type of pump	Dual pump std pressure		
Electrical supply	400V/50Hz/3Ph		

**Project conditions**

	Cooling
Outdoor air dry bulb temperature	38.0 C
Fluid entering temperature	12.0 C
Fluid leaving temperature	7.0 C
Evap fluid type	Water
Fouling Factor	0.017615 m2-deg C/kW
Elevation	450.0 m

Unit performance data

	Cooling	(1)
Gross capacity	535.87 kW	
Net capacity	536.62 kW	
Gross unit power	186.40 kW	
Gross EER	2.87 EER (kW/kW)	
Net EER	2.91 EER (kW/kW)	
Design flow rate	25.07 L/s	
Evaporator Pressure drop (Design)	27.5 kPa	
Evaporator Min Flow	13.10 L/s	
Evaporator Max Flow	53.00 L/s	

Acoustic data

Outdoor sound power level	90 dBA	(4)
Outdoor sound pressure level	58 dBA	(3)

Hydraulic module Info

Type of pump	Dual pump std pressure
Design flow rate	25.07 L/s
Available head - user side	131.3 kPa
Pump power absorbed	6.82 kW
Buffer tank size	777.00 L

**General data - refrigerant circuit**

Refrigerant Type	Full charge R410A	
Refrigerant GWP (AR5)	2088.00	
Number of circuits	2	
Number of compressors (circuit 1 / 2... n)	6	
Compressor type	Scroll	
Compressor regulation type	Fixed Speed	
Oil charge per circuit	23 kg	
Refrigerant charge per circuit	39 kg	39 kg

General data - fan section

Number of outdoor fans	6
Fan type	AC fans
Total condenser air flow	48.53 m3/s

Electrical Information

Electrical supply	400V/50Hz/3Ph
Current	299.61 A
Compressor soft starter	Not Included
Start-up current	636.00 A
Max amps	403.00 A
Maximum power at maximum current	248.00 kW

Dimensions and weight

Length	6015 mm
Width	2200 mm
Height	2530 mm
Unit shipping weight	4195 kg
Operating weight	5215 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
(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 9613
(5) Performance rating out of scope of Eurovent certification program

More information

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/7b9ce7a3-52db-4b33-b2bf-bed13228e212
Model Number	CGAF150DE**HC2EHWXNBNNX1XB1ECXFXALXXXXXXXX1EXAXXX21AXXAA1XX