

Quotation nr.

OFF-01201-Z9C4H2 15/06/2026

Air-Cooled Water Chiller unit model

GCE 18AG-50-IEC-400-AT3-FS



Technical Data

Data used for the selection

Frequency	400V/3Ph/50Hz	
Ambient temperature	35	[°C]
Leaving fluid temperature (LWT)	15	[°C]
Delta T	5	[K]
Required cooling capacity	17,8	[kW]
Type of refrigerant	R32	GWP= 675
Type of evaporator	Brazed Plates HE	-
Ethylene Glycol concentration	0%	[%]
Freezing point	0	[°C]
Altitude	0	[slm]
Water pump on board	3bar	[mod]

Unit Performance

Cooling capacity	17,8	[kW]
Compressors power input	4,4	[kW]
Fan power input	0,52	[kW]
Water pump power input	0,5	[kW]
Unit power input	5,44	[kW]
Fluid flow rate	3,06	[m ³ /h]
Evaporator pressure drop	0,13	[bar]
Available water pressure	2,86	[bar]
EER	3,60	[-]
SEPR HT (1)	5,20	[-]

Condenser section

Condenser type	Microchannel
Condenser protection (as option)	Epoxy polyester powder
Number of fans	2 [-]
Fans type	Axial [-]
Fan nominal speed	1335 [rpm]
Fan diameter	400 [mm]
Fan control	AC ON/OFF [-]
Fan nominal power (each)	0,26 [kW]
Air flow (each)	3.600 [m ³ /h]
Available head pressure	62 [Pa]
Minimum ambient temperature	-5 [°C]
Maximum ambient temperature	43 [°C]

Evaporator section

Evaporator type	Brazed Plates HE [-]
Evaporator fluid flow rate	3,06 [m ³ /h]
Evaporator pressure drops	0,13 [bar]

Installation connections

Inlet/outlet hydraulic connections diameter & connection type	Threaded straight connection - 1" [inch]
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Note

- (1) Data declared in compliance with the European Regulation (EU) 2016/2281 with regard to Ecodesign requirements for cooling products and high temperature process chillers.
- (2) Average value obtained in a free field on a reflective surface at a distance of 10 m. It refers to the operation of the unit under full load in nominal conditions. If the unit is equipped with EC fans, the value refers to a unit not ducted. Determined on the basis of measurements taken in accordance with the standard EN3744/EN3746. Values with a maximum tolerance +/- 3 dB.
- (3) Voltage : 400V ±10% / 3Ph+PE or 460V ±10% / 3Ph+PE

Chiller unit selected

Model	GCE 18AG
Fluid temperature range	From -5°C to +25°C
Type of refrigerant	R32
Type of evaporator	Brazed Plates HE
Water pump	3bar
Tank Type	Atmospheric
Tank Volume	50 l
Noise Level (2)	56 dB(A)
Compressors' sound reducing enclosure	-

Unit technical data

Compressor type	Scroll [-]
Compressor working logic	Fixed speed [-]
N° of compressors / n° of circuits	1/1 [-]
Capacity control	0-100 [%]
Type of refrigerant	R32 [-]
GWP (Global Warming Potential)	GWP= 675 [-]
Refrigerant charge	3,15 [kg]
Equivalent tons of CO ₂	2,1 [TCO ₂ eq]
Type of expansion valve	Electronic [-]
Length	1.260 [mm]
Width	535 [mm]
Height	1.370 [mm]
Net weight	131 [kg]
Operating weight	182 [kg]
Storage temperature (min./max.)	-25 / +50 [°C]

Electrical Data

Supply voltage (3)	400 V(3ph)
Supply frequency	400V/3Ph/50Hz [-]
Max total power input	8,1 kW
Max total current input	12,33 A
Auxiliary voltage	24V DC [-]
IP rating	54 [-]

Hydronic section

Rated pump motor power	0,5 [kW]
Available pressure of water pump	2,86 [bar]

Approvals

Electrical approvals	IEC
Pressure equipment approvals	PED 2014/68/UE