

i-32V5C Midi

Inverter monoblock chiller

21 kW ÷ 32 kW



Compressor

DC inverter compressor are of the hermetic rotary type, expressly designed for operation with R32, equipped with thermal protection and mounted on rubber vibration dampers.

User-Side Heat Exchanger

Grade AISI 304 stainless steel brazed plate heat exchanger coated with black closed-cell flexible elastomeric foam.



Structure

Structure consisting of profiles and panels in hot-dip galvanized steel sheet and polyester powder coated, color RAL 7035 peeled weather resistant.

Source-Side Heat Exchanger

The air exchangers are made entirely of aluminium with the microchannel technology.

Fan

DC inverter axial-type fans are mounted, featuring aerofoil blades. They are statically and dynamically balanced.

Refrigerant Circuit

- Dehydrator filter;
- Shut-off valve on the liquid line;
- Liquid flow and humidity indicator;
- Electronic expansion valve;
- Service couplers;

- High pressure safety pressure switches;
- High- and low-pressure transducers;

Standard Components

- Electronic circulator
- EEV - electronic expansion valve
- Liquid indicator
- Water side safety valve
- Drain cock
- Flow switch (flow presence signal)
- Remote on / off dry contact
- Dynamic set point
- Three-phase relay for sequence / lack monitoring
- Fan speed regulator (ECM fans)
- 2nd set point

Electrical Panel And Control

Entirely made and wired in conformity to the IEC 60335-2-40.

Accessories

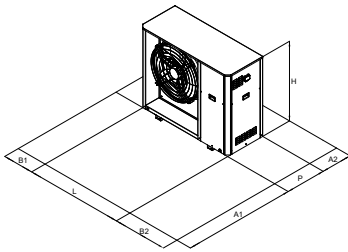
CM	Modbus communication module	KA1	Heat exchanger adhesive resistance
DS	Desuperheater partial heat recovery unit	RP	Metallic guards for condenser
DSFR	Sequence control device, phase failure + Minimum and Maximum voltage relay	TR1	Micro-channel coil with Aero surface treatment
GI	Internal hardware extension module	SL	Silenced version
IM	Protection switches		

Loose accessories

e-Pro	Wi-Fi wall remote control		probe
e-Lite	Multifunctional remote control system	VDIS3	Three-wires diverting valve
Hi-TV415	Remote Touch Screen Display	FD	Dirt separator filter
CONNECT BOX	Gateway Heat Pump Communication and Maxa Connect	FY	Y-strainer
i-CR	Remote wall controller	ACT	Outdoor water buffer (view page.28)
AG	Anti-vibration kit	TR2C4	Cu/Al battery with anti-corrosion and metal panels treatment
SAS	Remote plant probe - Sanitary storage		

Versions

i-32V5C Midi	Standard version chiller	i-32V5C-BT Midi	BT version chiller (for low water temperatures)
i-32V5C-DS Midi	Chiller with desuperheater		



Spaces of respect	0121-0126	0128-0132
A1	mm 1500	1500
A2	mm 400	400
B1	mm 400	400
B2	mm 700	700

Dimensions		0121	0126	0128	0132
L	mm	1600	1600	1600	1600
P	mm	680	680	680	680
H	mm	1315	1315	1315	1315

i-32V5C Midi		0121	0126	0128	0132
Cooling					
Cooling capacity (1)	kW	24,7* / 20,7	27,1* / 25,8	30,8* / 28,1	32,8* / 31,8
Power input (1)	kW	5,9	8,0	8,2	10,2
EER (1)	W/W	3,5	3,2	3,4	3,1
Cooling capacity (2)	kW	24,7* / 21,6	27,4* / 25,5	31,9* / 28,4	34,3* / 32,8
Power input (2)	kW	4,3	5,3	5,8	7,1
EER (2)	W/W	5,0	4,8	4,9	4,6
SEER (3)	W/W	5,2	5,1	5,4	5,1
Water flow (1)	L/s	1,0	1,2	1,3	1,5
Hydronic circuit side load losses (1)	kPa	37,5	53,1	39,2	47,8
Compressor					
Type	Twin Rotary DC Inverter				
Compressors	n°	1	1	1	1
Refrigerant circuits	n°	1	1	1	1
Refrigerant (R32)	kg	1,8	1,8	2,2	2,2
Cooling quantity in tonnes of CO2 equivalent	ton	1,22	1,22	1,49	1,49
Fan					
Type	DC Brushless				
Number	N°	1	1	1	1
Nominal air flow (1)	m³/h	8091	8407	12873	12836
Hydronic heat exchanger					
Type	Plate				
Number	N°	1	1	1	1
Hydraulic circuit					
Water connections	inch	1"	1"	1"1/4	1"1/4
Water quantity	L	2,4	2,4	3,4	3,4
Minimum water volume	L	110	110	110	110
Sound level					
Sound power (4)	dB(A)	73	74	75	76
Electrical data					
Power supply	400V/3P+N+T/50Hz				
Max. power input	kW	9,88	10,3	11,1	11,7
Max. current input	A	19,0	19,7	20,9	21,9
Weight					
Gross weight	kg	215	215	225	225
Net weight	kg	205	205	215	215

Performance referred to the following conditions:

- (1) Cooling: outdoor air temperature 35 ° C; water temperature in / out 12/7 ° C.
 - (2) Cooling: outdoor air temperature 35 ° C; water temperature in / out 23/18 ° C
 - (3) Cooling: inlet / outlet water temperature 12/7 ° C.
 - (4) Sound power: heating mode according to EN 12102:2022; value determined on the basis of measurements made in accordance with UNI EN ISO 9614-1, in compliance with Eurovent certification requirements.
- (*) by activating the maximum Hz function