MICS-CN 0072÷0122

Air-to-water reversible heat pumps with centrifugal fans
17,3 - 33,9 kW

Unit Description

MICS-CN is the Climaveneta range air-cooled heat pumps with gas R410A. These are indoor units that, thanks to the ducted centrifugal fans, may also be installed outdoors. They are fitted with hermetic Scroll compressors and Full Floating technology. The latter is an intelligent electronic unit providing the perfect answer to residential market requirements: compactness, ease of installation and quietness.

Versions

MICS-CN FF Indoor heat pump with full floating technology and built-in hydronic kit

Features

Structure and base in hot-dip galvanised steel with epoxy powder paint finish.
High-efficiency plate exchangers in AISI 316 stainless steel with low pressure loss, fitted with heating element for frost protection.
External access to control with anti-tamper device.
Finned coils made with copper pipes and aluminium fins with large exchange surface area, tested for leaks with dried air at 30 bar.
User interface with display.
Electronic expansion valve
Available water pipe fittings in case of installation under appliance
The circuit includes:

- Multistage centrifugal pump
- Air vent valve.
- Differential pressure switch.
- Expansion tank.
- Safety valve.
- Pressure gauge.
- Drain valve

Main accessories

- Rubber anti-vibration mounting kit
- Removable metal mesh water filter kit
- Coil protection grids
- Remote control kit

Commands

Full Floating technology

The new generation electronic controller allows to manage the chiller by using the Full Floating technology, designed by Climaveneta for improving the system's efficiency for the fans (Floating Fans), for the circulating pump (Floating Flow) and finally for the working temperature (Floating Setpoint). This also allows to achieve all the following benefits: improvement of efficiency in both standard and extreme conditions, much lower operating noise in part load conditions, lower installation time, lower time for system set-up, broader operating limits, faster transient after defrosts.

MICS-CN FF

Models		0072	0092	0122
HEAT PUMP MODEL				
Nominal Cooling capacity(1)	kW	17,3	21,8	30,3
Total absorbed power(1)	kW	6,50	9,30	10,7
EER		2,66	2,34	2,83
ESEER		3,86	3,75	3,78
Nominal water flow	m3/h	3	3,80	5,20
Nominal Heating power(2)	kW	20,2	26,1	33,9
Total absorbed power(2)	kW	6,50	8,60	11,2
COP		3,11	3,02	3,03
Absorbed current	A	16,1	19,8	27,3
Nominal water flow	m3/h	3,50	4,50	5,90
Hydraulic connections	inches	1"1/4	1"1/4	1"1/4
Operational weight	kg	310	330	410
No. fans	Nr/No.	1	1	2
Airflow	m3/h	9000	9000	18000
Compressor type		SCROLL	SCROLL	SCROLL
Refrigerant		R410A	R410A	R410A
Sound pressure level(3)	db(A)	74	74	77
Sound power	db(A)	86	86	89
Electrical power supply	V-Ph~Hz	400V-3N~50Hz	400V-3N~50Hz	400V-3N~50Hz
DIMENSION				
L	(mm)	1040	1040	1630
H	(mm)	2000	2000	2000
P	(mm)	790	790	790

The data refer to

1 Evaporator water (in/out) 12/7°C, condenser air (in) 35°C, based on Eurovent standard
2 Condenser water (in/out) 40/45°C, evaporator air (in) 7°C (r.h. 87%), based on Eurovent standard
3 Noise level measured at 1 m in open field conditions

Dimension