

## Residential chillers and heat pumps

# MICS-C 0072 - 0122



### Chillers, air source for indoor installation 18,2-31,9 kW

MICS-C is the Climaveneta range of air-cooled liquid chillers with gas R410A. 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.

#### Controls

##### Full Floating features

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.

#### Version

FF base version, with built-in hydronic kit

#### Features

Structure and base in hot-dip galvanised steel with epoxy powder paint finish.  
High efficiency, low pressure drop AISI 316 stainless steel plate heat exchangers, fitted with heating element to provide frost protection.  
Control with foolproof device accessible from the outside.  
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.

#### Accessory

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



MICS-C / FF			0072	0092	0122
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>					
<b>COOLING ONLY (GROSS VALUE)</b>					
Cooling capacity	(1) kW		18,2	23,0	31,9
Total power input	(1) kW		6,50	9,30	10,7
EER	(1)		2,80	2,47	2,98
ESEER	(1)		4,05	3,93	3,98
<b>COOLING ONLY (EN14511 VALUE)</b>					
Cooling capacity	(1)(2) kW		18,3	23,1	32,0
EER	(1)(2)		3,05	2,66	3,51
ESEER	(1)(2)		5,00	4,78	6,02
Cooling energy class			A	B	A
<b>EXCHANGERS</b>					
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>					
Water flow	(1) m <sup>3</sup> /h		3,13	3,96	5,49
Available unit's head	(1) kPa		124,8	143,1	101,5
<b>COMPRESSORS</b>					
Compressors nr.	N°		2	2	2
No. Circuits	N°		1	1	1
<b>FANS</b>					
Air flow	m <sup>3</sup> /s		2,50	2,50	5,00
Available static pressure	Pa		120	120	120
<b>NOISE LEVEL</b>					
Noise Power	(3) dB(A)		86	86	89
<b>SIZE AND WEIGHT</b>					
A	(4) mm		1040	1040	1630
B	(4) mm		790	790	790
H	(4) mm		2000	2000	2000
Operating weight	(4) kg		330	350	450

Notes:

1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C

2 Values in compliance with EN14511-3:2011

3 Total sound power of fans, as declared by the maker, at the rated speed of rotation and a useful static head of 120 Pa on the delivery side.

4 Unit in standard configuration/execution, without optional accessories

