



## Condenserless units 4,7 - 32,4 kW

### Unit Description

HE FF is the Climaveneta range of cooling units. These are indoor units that may be combined with remote outdoor condensers to guarantee maximum flexibility and compliance with any architectural restriction. These units have 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

HE FF Condenserless units with Full Floating technology, without 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.

Differential pressure switch.

The remote condenser may be installed up to a distance of 50 metres from the cooling unit.

The safety of the unit is guaranteed by a door lock isolator on the electrical power switchboard and by active protection devices on the main components.

### Main accessories

- Buffer tank plus pump
- Hydronic kit plus pump
- Removable metal mesh water filter kit
- Modulating pump kit
- Control board for the modulating pump kit

### Commands

#### Full Floating features

Once every 3 minutes an algorithm automatically optimises the water set point in relation to the compressor operating time and the temperatures of the water in the system. The water storage tank is no longer indispensable because it is compensated by the Floating Set function, with resulting reduction in:

- size;
- weight;
- installation times;
- system setting-up times.

## HE FF

Models		0011	0021	0025	0031	0021	0025	0031	0041	0051	0061	0071	0091	0101	0121
COOLING ONLY MODEL															
Nominal Cooling capacity(1)	kW	4,7	6,1	7,0	8,2	6,1	7,0	8,2	10,5	12,5	15,0	19,1	22,2	26,8	32,4
Total absorbed power(1)	kW	1,6	2,1	2,5	2,9	2,1	2,4	2,9	3,4	4,2	4,9	6,3	7,8	8,9	10,9
EER		2,84	2,89	2,80	2,79	2,94	2,86	2,86	3,06	2,97	3,07	3,03	2,86	3	2,96
ESEER		3,20	3,32	3,22	3,27	3,41	3,30	3,38	3,54	3,36	3,81	3,45	3,22	3,43	3,32
Absorbed current	A	7,67	9,81	11,6	13,7	3,77	4,56	5,22	6,20	7,60	8,81	12,0	14,1	16,2	18,9
Water flow in cooling	m3/h	0,90	1,10	1,30	1,50	1,10	1,30	1,50	1,90	2,30	2,80	3,40	4,10	4,80	5,90
Pressure drop	kPa	22	24	26	27	24	26	27	19	20	20	23	22	23	23
Operational weight	kg	68	70	71	74	70	71	74	85	87	90	177	180	187	190
Compressor type		SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
Refrigerant		R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c	R407c
Hydraulic connections	inches	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	5/8"	5/8"	3/4"	3/4"
Gas connection	inches	1/2"	1/2"	5/8"	5/8"	1/2"	5/8"	5/8"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"
In/out gas water fittings	inches	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"1/4"	1"1/4"	1"1/4"	1"1/4"	1"1/4"	1"1/4"	1"1/4"
Sound pressure level(2)	db(A)	43	43	48	48	43	48	48	52	52	52	52	52	53	53
Sound power	db(A)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Electrical power supply	V-Ph-Hz	230V-50Hz					400V-3N-50Hz								
DIMENSION															
L	(mm)	400	400	400	400	400	400	400	400	400	400	600	600	600	600
H	(mm)	960	960	960	960	960	960	960	960	960	960	960	960	960	960
P	(mm)	450	450	450	450	450	450	450	450	450	450	600	600	600	600

The data refer to

1 Evaporator water (in/out): 12/7°C; Condensation temperature: 47°C.

2 Noise level measured at 1 m in open field conditions

Dimension

