



BRAT2 0021 - 0121
MICS 0072 - 0182
BRA2 0021 - 0061
MICS-C 0072 - 0122
BRH 0011 - 0121
HE 0011 - 0121
NHCR 0011-21 - 0121
BRAN2 0021 - 0121
MICS-N 0072 - 0182
BRN2 0021 - 0061
MICS-CN 0072 - 0122
BRAT-MC 0011 - 0121

Residential chillers

BRAT2 0021 - 0121



Chiller, air source for outdoor installation 5,74-31,7 kW

BRAT2 is the Climaveneta range of air-cooled chillers with gas R410A. It is an outdoor unit with axial fans, hermetic Scroll compressors and Full Floating technology. The latter is an intelligent electronic unit providing the perfect answer to residential or commercial market requirements: compactness, ease of installation and quietness.

The units can be arranged to satisfy a wide range of system requirements: with base or with integrated EC inverter pump low consumption, ErP2015 complied.

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

B Basic

Features

Structure and base in hot-dip galvanised steel with epoxy powder paint finish.
Hermetic scroll type compressors, equipped with the crankcase heater and thermal protection

High efficiency, low pressure drop AISI 316 stainless steel plate heat exchangers, fitted with heating element to provide frost protection.

Finned coils made with copper pipes and aluminium fins with large exchange surface area, tested for leaks with dried air at 30 bar.

Coil protection grid for models 0011+0061.

Axial electric fans, external rotor, 6-pole electric motor fitted with thermal protection, housed in aerodynamic conveyor profile with safety grill

Continuous fan speed regulation with pressure switch

User interface unit on board, accessible from the outside with a not touch system

Phase sequence controller for models 0071+0121

Differential pressure switch.

Extensive operating limits in cooling mode, leaving water temperature up to -10°C and max external air temperature +46°C.

Accessory

- Integrated hydronic module with high efficiency inverter pump, safety valve, expansion tank, manual air vent
- Soft starters
- HSW15 remote keyboard
- Outside air temperature probe for plant water set point compensation.
- Serial card BUS ADAPTER for ModBus
- Copper-Copper heat exchanger coils
- Copper-Aluminum heat exchanger coils with epoxy treatment
- Coil protection grid for models 0071+0121
- External buffer tank and hydronic connecting kit
- External main switch kit
- Removable metal mesh water filter kit
- Rubber anti-vibration mounting kit



BRAT2		0021	0025	0031	0041	0021	0025	0031
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	5,76	7,06	8,71	11,5	5,74	7,13	8,79
Total power input	(1) kW	2,08	2,58	3,49	4,10	2,04	2,43	3,21
EER	(1) kW/kW	2,77	2,74	2,50	2,80	2,81	2,93	2,74
ESEER	(1) kW/kW	3,36	3,38	3,11	3,30	3,49	3,63	3,30
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	5,74	7,03	8,68	11,4	5,72	7,10	8,76
EER	(1)(2) kW/kW	2,73	2,70	2,46	2,74	2,77	2,89	2,70
ESEER	(1)(2) kW/kW	3,31	3,32	3,06	3,21	3,43	3,57	3,26
Cooling energy class		C	C	E	C	C	C	C
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) m³/h	0,99	1,22	1,50	1,97	0,99	1,23	1,51
Pressure drop	(1) kPa	6,87	8,27	9,00	17,9	6,84	8,44	9,16
COMPRESSORS								
Compressors nr.	N°	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1
NOISE LEVEL								
Noise Pressure	(3) dB(A)	52	52	52	54	52	52	52
Sound power level in cooling	(4)(5) dB(A)	66	66	66	69	66	66	66
SIZE AND WEIGHT								
A	(6) mm	900	900	900	900	900	900	900
B	(6) mm	370	370	370	370	370	370	370
H	(6) mm	640	940	940	1240	640	940	940
Operating weight	(6) kg	85	100	105	126	85	100	105

BRAT2		0041	0051	0061	0071	0091	0101	0121
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	11,9	13,4	15,7	19,1	21,7	26,7	31,7
Total power input	(1) kW	4,24	4,70	5,31	6,69	8,13	8,91	11,8
EER	(1) kW/kW	2,81	2,85	2,96	2,86	2,67	3,00	2,69
ESEER	(1) kW/kW	3,40	3,26	3,48	3,33	3,14	3,50	3,18
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	11,8	13,3	15,6	19,0	21,6	26,6	31,5
EER	(1)(2) kW/kW	2,74	2,79	2,89	2,79	2,62	2,93	2,64
ESEER	(1)(2) kW/kW	3,30	3,18	3,39	3,25	3,08	3,42	3,11
Cooling energy class		C	C	C	C	D	B	D
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) m³/h	2,06	2,31	2,69	3,29	3,74	4,60	5,46
Pressure drop	(1) kPa	19,4	20,0	19,6	22,2	22,3	23,3	25,3
COMPRESSORS								
Compressors nr.	N°	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1
NOISE LEVEL								
Noise Pressure	(3) dB(A)	54	54	54	59	59	60	60
Sound power level in cooling	(4)(5) dB(A)	69	69	69	74	74	76	76
SIZE AND WEIGHT								
A	(6) mm	900	900	900	1450	1450	1450	1450
B	(6) mm	370	370	370	550	550	550	550
H	(6) mm	1240	1240	1390	1200	1200	1700	1700
Operating weight	(6) kg	126	145	155	245	249	320	325

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 EN14511-3:2013.

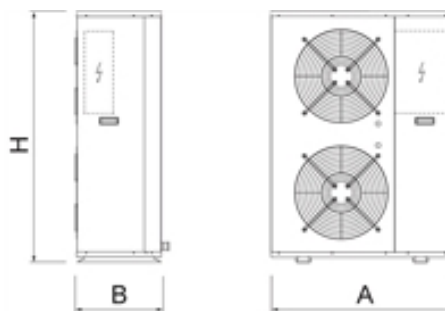
3 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

Certified data in EUROVENT



MICS 0072 - 0182



Modular chillers, air source for outdoor installation 18,2-44,7 kW

MICS is the Climaveneta range of air-cooled liquid chillers. They are outdoor units with axial fans, 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

Modular design

MICS features an innovative design that optimises the possibilities of connecting up several units, reducing the necessary access space to a minimum and thereby the overall size of the units.

Increasingly better capacity control

The possibility of controlling up to six units as a single product means that MICS can increase the number of available control steps, thereby ensuring practically perfect adaptation to the real heat load trend.

Keyboard Master Control

KMC is the central control of the cascade modules. Its main function is to supervise operation of all the modules, making them operate synergically. As a user interface it has a graphic display and a keypad for navigating in the pull-down menus.

Full Floating technology

The full floating technology with automatic control of the airflow rate, water flow rate and water temperature gains a new function: Flex Energy, used to manage the capacity control steps in linear or alternating sequence in installations with several modules.

Version

FF	Basic version, with built-in hydronic kit
FFT	Basic version without 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.
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
Differential pressure switch.
Drain valve.
The hydronic circuit on the FF models includes:
Multistage centrifugal pump
Air vent valve
Expansion tank
Safety valve
Pressure gauge

Accessory

- Rubber anti-vibration mounting kit
- Removable metal mesh water filter kit
- Kit for connecting the KMC keyboard
- Coil protection grids
- KMC keyboard for modular system
- Remote control kit



MICS / FF			0072	0092	0122	0152	0182
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1) kW		18,2	23,0	31,9	39,4	44,7
Total power input	(1) kW		6,50	9,30	10,7	13,4	15,5
EER	(1) kW/kW		2,80	2,47	2,98	2,94	2,88
ESEER	(1) kW/kW		4,05	3,93	3,98	4,12	4,17
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2) kW		18,3	23,1	32,0	39,6	44,9
EER	(1)(2) kW/kW		2,61	2,38	2,88	2,89	2,82
ESEER	(1)(2) kW/kW		3,44	3,56	3,69	3,94	3,94
Cooling energy class			D	E	C	C	C
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	m³/h		3,13	3,96	5,49	6,78	7,70
Available unit's head	(1) kPa		124,8	143,1	101,5	113,8	133,8
COMPRESSORS							
Compressors nr.	N°		2	2	2	2	2
No. Circuits	N°		1	1	1	1	1
NOISE LEVEL							
Noise Pressure	(3) dB(A)		64	64	66	66	66
Sound power level in cooling	(4)(5) dB(A)		80	80	83	83	83
SIZE AND WEIGHT							
A	(6) mm		1040	1040	1630	1630	1630
B	(6) mm		790	790	790	790	790
H	(6) mm		1725	1725	1725	1725	1725
Operating weight	(6) kg		310	330	410	450	480

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 EN14511-3:2013.

3 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

Certified data in EUROVENT

MICS / FFT			0072	0092	0122	0152	0182
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE							
COOLING ONLY (GROSS VALUE)							
Cooling capacity	(1) kW		18,2	23,0	31,9	39,4	44,7
Total power input	(1) kW		6,50	9,30	10,7	13,4	15,5
EER	(1) kW/kW		2,80	2,47	2,98	2,94	2,88
ESEER	(1) kW/kW		4,05	3,93	3,98	4,12	4,17
COOLING ONLY (EN14511 VALUE)							
Cooling capacity	(1)(2) kW		18,1	22,9	31,7	39,2	44,4
EER	(1)(2) kW/kW		2,73	2,42	2,90	2,87	2,81
ESEER	(1)(2) kW/kW		3,83	3,74	3,78	3,92	3,93
EXCHANGERS							
HEAT EXCHANGER USER SIDE IN REFRIGERATION							
Water flow	(1) m³/h		3,13	3,96	5,49	6,78	7,70
Pressure drop	(1) kPa		29,3	28,2	36,2	35,9	45,0
COMPRESSORS							
Compressors nr.	N°		2	2	2	2	2
No. Circuits	N°		1	1	1	1	1
NOISE LEVEL							
Noise Pressure	(3) dB(A)		64	64	66	66	66
Sound power level in cooling	(4)(5) dB(A)		80	80	83	83	83
SIZE AND WEIGHT							
A	(6) mm		1040	1040	1630	1630	1630
B	(6) mm		790	790	790	790	790
H	(6) mm		1725	1725	1725	1725	1725
Operating weight	(6) kg		310	330	410	450	480

Notes:

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

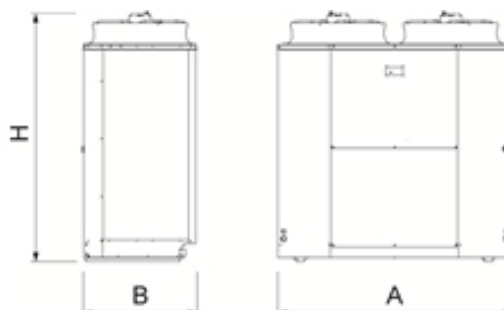
2 Values in compliance with EN14511-3:2013.

3 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.



BRA2 0021 - 0061



Chillers, air source for indoor installation 5,74-15,7 kW

BRA2 is the Climaveneta range of air-cooled liquid chillers with R410A refrigerant. 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. The units are designed for indoor installation with radial plug-fan as standard equipment. The air outflow can be ducted in vertical or horizontal.

The units can be arranged to satisfy a wide range of system requirements: with base or with integrated EC inverter pump low consumption, ErP2015 complied.

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

B Basic

Features

Structure and base in hot-dip galvanised steel with epoxy powder paint finish.
Hermetic scroll type compressors, equipped with the crankcase heater and thermal protection
High efficiency, low pressure drop AISI 316 stainless steel plate heat exchangers, fitted with heating element to provide frost protection.
Finned coils made with copper pipes and aluminium fins with large exchange surface area, tested for leaks with dried air at 30 bar.
Coil protection grid for models 0011+0061.
Radial fan, plug-fan type
Continuous fan speed regulation with pressure switch
User interface unit on board, accessible from the outside with a not touch system
Differential pressure switch.
Extensive operating limits in cooling mode, leaving water temperature up to -10°C and max external air temperature +46°C.

Accessory

- Integrated hydronic module with high efficiency inverter pump, safety valve, expansion tank, manual air vent
- Soft starters
- HSW15 remote keyboard
- Outside air temperature probe for plant water set point compensation.
- Serial card BUS ADAPTER for ModBus
- Copper-Copper heat exchanger coils
- Copper-Aluminum heat exchanger coils with epoxy treatment
- External buffer tank and hydronic connecting kit
- External main switch kit
- Removable metal mesh water filter kit
- Rubber anti-vibration mounting kit



BRA2			0021	0025	0031	0041	0021	0025	0031	0041	0051	0061
Power supply			V/ph/Hz									
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	5,76	7,06	8,71	11,5	5,74	7,13	8,79	11,9	13,4	15,7
Total power input	(1)	kW	2,43	2,93	3,84	4,80	2,39	2,78	3,56	4,94	5,40	6,01
EER	(1)	kW/kW	2,37	2,41	2,27	2,40	2,40	2,56	2,47	2,41	2,48	2,61
ESEER	(1)	kW/kW	2,77	2,88	2,76	2,73	2,86	3,08	2,91	2,81	2,77	3,00
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	5,74	7,03	8,68	11,4	5,72	7,10	8,76	11,8	13,3	15,6
EER	(1)(2)	kW/kW	2,59	2,62	2,41	2,63	2,63	2,80	2,64	2,64	2,66	2,80
ESEER	(1)(2)	kW/kW	3,11	3,22	2,98	3,06	3,21	3,45	3,16	3,13	3,02	3,26
Cooling energy class			B	B	C	B	B	A	B	B	B	A
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	m³/h	0,99	1,22	1,50	1,97	0,99	1,23	1,51	2,06	2,31	2,69
Pressure drop	(1)	kPa	6,87	8,27	9,00	17,9	6,84	8,44	9,16	19,4	20,0	19,6
COMPRESSORS												
Compressors nr.	N°		1	1	1	1	1	1	1	1	1	1
No. Circuits	N°		1	1	1	1	1	1	1	1	1	1
FANS												
Air flow		m³/s	0,81	0,93	0,93	1,77	0,81	0,93	0,93	1,77	1,61	1,74
Available static pressure		Pa	120	120	120	120	120	120	120	120	120	120
NOISE LEVEL												
Sound power level in cooling	(3)(4)	dB(A)	75	75	75	77	75	75	75	77	77	77
SIZE AND WEIGHT												
A	(5)	mm	900	900	900	900	900	900	900	900	900	900
B	(5)	mm	580	580	580	580	580	580	580	580	580	630
H	(5)	mm	640	940	940	1240	640	940	940	1240	1240	1390
Operating weight	(5)	kg	105	120	125	165	105	120	125	165	185	195

Notes:

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

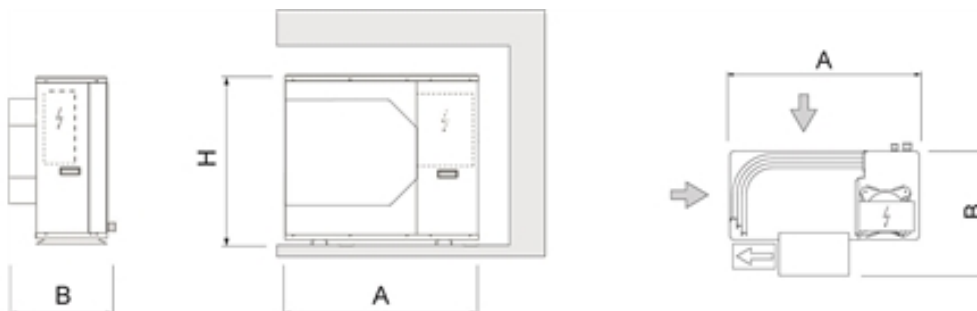
2 Values in compliance with EN14511-3:2013.

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 Sound power level in cooling, outdoors.

5 Unit in standard configuration/execution, without optional accessories.

Certified data in EUROVENT



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 Basic 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
PERFORMANCE					
COOLING ONLY (GROSS VALUE)					
Cooling capacity	(1) kW		18,2	23,0	31,9
Total power input	(1) kW		6,50	9,30	10,7
EER	(1) kW/kW		2,80	2,47	2,98
ESEER	(1) kW/kW		4,05	3,93	3,98
COOLING ONLY (EN14511 VALUE)					
Cooling capacity	(1)(2) kW		18,3	23,1	32,0
EER	(1)(2) kW/kW		3,05	2,66	3,51
ESEER	(1)(2) kW/kW		4,48	4,29	5,04
Cooling energy class			A	B	A
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN REFRIGERATION					
Water flow	(1) m³/h		3,13	3,96	5,49
Available unit's head	(1) kPa		124,8	143,1	101,5
COMPRESSORS					
Compressors nr.	N°		2	2	2
No. Circuits	N°		1	1	1
FANS					
Air flow	m³/s		2,50	2,50	5,00
Available static pressure	Pa		120	120	120
NOISE LEVEL					
Sound power level in cooling	(3)(4) dB(A)		86	86	89
SIZE AND WEIGHT					
A	(5) mm		1040	1040	1630
B	(5) mm		790	790	790
H	(5) mm		2000	2000	2000
Operating weight	(5) 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.

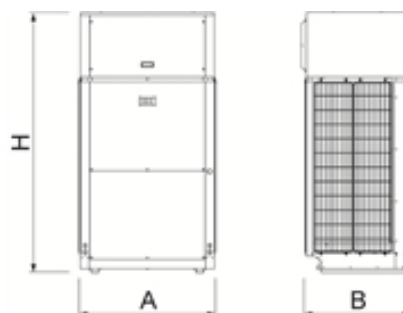
2 Values in compliance with EN14511-3:2013.

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 Sound power level in cooling, indoors.

5 Unit in standard configuration/execution, without optional accessories.

Certified data in EUROVENT



BRH 0011 - 0121



Version

FF	Basic version, with built-in hydronic kit
FFT	Basic version 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 drops (exchanger on plant side fitted with heating element for frost protection). External access to control with anti-tamper device.

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.

The circuit includes:

- Modulating valve to reduce water consumptions (source side, FF versions only).

- Circulating pump (plant side, FF versions only).

- Air vent valve (plant side).

- Expansion vessel (plant side).

- Safety valve (plant side).

- Differential pressure switch on plant circuit only.

- Drain valve on both the plant and the source circuits.

Accessory

- Removable metal mesh water filter kit
- HSW10 remote keyboard

Water cooled chiller 5,50-35,1 kW

BRH is a range of water-source liquid chillers operating with R410A refrigerant. These are indoor units 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

Floating Set

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.

Floating Flow

The controller manages the modulation of the active components (pump and electronic flow valve) through pressure transducers and temperature sensors. The performance of the unit may thus be optimised for different operating conditions, such as traditional fan coil system and panel heating system, ensuring:

- broader operating limits;
- easier start-up of installations with both high and low water temperatures;
- faster system setup.



BRH / FF		0011	0021	0025	0031	0041	0021	0025	0031
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1) kW	5,50	5,90	7,60	9,20	11,9	5,90	7,70	9,30
Total power input	(1) kW	1,50	1,70	2,00	2,60	3,20	1,60	1,90	2,40
EER	(1) kW/kW	3,67	3,47	3,80	3,54	3,72	3,69	4,05	3,88
ESEER	(1) kW/kW	4,23	3,92	4,47	4,15	4,10	4,00	4,61	4,38
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2) kW	5,51	5,91	7,61	9,21	11,9	5,91	7,71	9,31
EER	(1)(2) kW/kW	3,34	3,19	3,54	3,32	3,38	3,38	3,76	3,61
ESEER	(1)(2) kW/kW	3,77	3,54	4,09	3,83	3,67	3,69	4,21	4,03
Cooling energy class		F	F	E	F	F	F	E	E
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1) m³/h	0,95	1,02	1,31	1,58	2,05	1,02	1,33	1,60
Available unit's head	(1) kPa	60,3	58,8	65,5	58,5	89,2	58,8	65,1	58,0
Water flow	(1) m³/h	1,20	1,30	1,64	2,02	2,58	1,28	1,64	2,00
Pressure drop	(1) kPa	13,4	15,6	20,0	29,5	33,4	15,2	20,0	29,0
COMPRESSORS									
Compressors nr.	N°	1	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1	1
NOISE LEVEL									
Noise Pressure	(3) dB(A)	38	38	39	39	44	38	39	39
Sound power level in cooling	(4)(5) dB(A)	52	52	53	53	58	52	53	53
SIZE AND WEIGHT									
A	(6) mm	575	575	575	575	575	575	575	575
B	(6) mm	560	560	560	560	560	560	560	560
H	(6) mm	980	980	980	980	980	980	980	980
Operating weight	(6) kg	148	148	150	155	170	148	150	152

BRH / FF		0041	0051	0061	0071	0091	0101	0121
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	12,4	13,9	16,5	20,8	24,0	27,3	35,1
Total power input	(1) kW	3,20	3,80	4,00	5,10	5,80	6,80	8,40
EER	(1) kW/kW	3,88	3,66	4,13	4,08	4,14	4,01	4,18
ESEER	(1) kW/kW	4,28	4,22	4,74	4,62	4,84	4,55	4,59
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	12,4	13,9	16,5	20,8	24,1	27,4	35,4
EER	(1)(2) kW/kW	3,52	3,38	3,82	3,83	3,93	3,68	3,86
ESEER	(1)(2) kW/kW	3,82	3,83	4,31	4,28	4,54	4,03	4,17
Cooling energy class		E	F	E	E	D	E	D
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) m³/h	2,13	2,39	2,84	3,58	4,13	4,70	6,04
Available unit's head	(1) kPa	87,0	87,1	81,9	74,4	73,6	125,3	166,0
Water flow	(1) m³/h	2,67	3,03	3,51	4,43	5,10	5,84	7,45
Pressure drop	(1) kPa	35,7	34,0	36,3	40,0	34,2	46,8	47,7
COMPRESSORS								
Compressors nr.	N°	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1
NOISE LEVEL								
Noise Pressure	(3) dB(A)	44	44	45	51	51	55	55
Sound power level in cooling	(4)(5) dB(A)	58	58	59	66	66	70	70
SIZE AND WEIGHT								
A	(6) mm	575	575	575	780	780	780	780
B	(6) mm	560	560	560	680	680	680	680
H	(6) mm	980	980	980	1150	1150	1150	1150
Operating weight	(6) kg	160	170	175	220	230	235	250

Notes:

1 Plant (side) cooling exchanger water (in/out) = 12°C/7°C; Source (side) heat exchanger water (in/out) = 30°C/35°C.

2 Values in compliance with EN14511-3:2013.

3 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, indoors.

6 Unit in standard configuration/execution, without optional accessories.

Certified data in EUROVENT

BRH / FFT		0011	0021	0025	0031	0041	0021	0025	0031
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
PERFORMANCE									
COOLING ONLY (GROSS VALUE)									
Cooling capacity	(1) kW	5,50	5,90	7,60	9,20	11,9	5,90	7,70	9,30
Total power input	(1) kW	1,50	1,70	2,00	2,60	3,20	1,60	1,90	2,40
EER	(1) kW/kW	3,67	3,47	3,80	3,54	3,72	3,69	4,05	3,88
ESEER	(1) kW/kW	4,23	3,92	4,47	4,15	4,10	4,00	4,61	4,38
COOLING ONLY (EN14511 VALUE)									
Cooling capacity	(1)(2) kW	5,48	5,87	7,56	9,14	11,8	5,87	7,66	9,24
EER	(1)(2) kW/kW	3,51	3,31	3,60	3,32	3,48	3,51	3,82	3,62
ESEER	(1)(2) kW/kW	4,01	3,71	4,18	3,85	3,80	3,87	4,31	4,05
EXCHANGERS									
HEAT EXCHANGER USER SIDE IN REFRIGERATION									
Water flow	(1) m³/h	0,95	1,02	1,31	1,58	2,05	1,02	1,33	1,60
Pressure drop	(1) kPa	8,41	9,54	12,7	18,2	21,0	9,54	13,0	18,6
Water flow	(1) m³/h	1,20	1,30	1,64	2,02	2,58	1,28	1,64	2,00
Pressure drop	(1) kPa	13,4	15,6	20,0	29,5	33,4	15,2	20,0	29,0
COMPRESSORS									
Compressors nr.	N°	1	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1	1
NOISE LEVEL									
Noise Pressure	(3) dB(A)	38	38	39	39	44	38	39	39
Sound power level in cooling	(4)(5) dB(A)	52	52	53	53	58	52	53	53
SIZE AND WEIGHT									
A	(6) mm	575	575	575	575	575	575	575	575
B	(6) mm	560	560	560	560	560	560	560	560
H	(6) mm	980	980	980	980	980	980	980	980
Operating weight	(6) kg	148	148	150	155	170	148	150	152

BRH / FFT		0041	0051	0061	0071	0091	0101	0121
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING ONLY (GROSS VALUE)								
Cooling capacity	(1) kW	12,4	13,9	16,5	20,8	24,0	27,3	35,1
Total power input	(1) kW	3,20	3,80	4,00	5,10	5,80	6,80	8,40
EER	(1) kW/kW	3,88	3,66	4,13	4,08	4,14	4,01	4,18
ESEER	(1) kW/kW	4,28	4,22	4,74	4,62	4,84	4,55	4,59
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2) kW	12,3	13,8	16,4	20,7	23,9	27,1	34,9
EER	(1)(2) kW/kW	3,61	3,44	3,85	3,81	3,90	3,75	3,91
ESEER	(1)(2) kW/kW	3,95	3,92	4,37	4,26	4,50	4,13	4,25
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) m³/h	2,13	2,39	2,84	3,58	4,13	4,70	6,04
Pressure drop	(1) kPa	22,8	21,3	23,8	26,1	22,5	30,3	31,4
Water flow	(1) m³/h	2,67	3,03	3,51	4,43	5,10	5,84	7,45
Pressure drop	(1) kPa	35,7	34,0	36,3	40,0	34,2	46,8	47,7
COMPRESSORS								
Compressors nr.	N°	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1
NOISE LEVEL								
Noise Pressure	(3) dB(A)	44	44	45	51	51	55	55
Sound power level in cooling	(4)(5) dB(A)	58	58	59	66	66	70	70
SIZE AND WEIGHT								
A	(6) mm	575	575	575	780	780	780	780
B	(6) mm	560	560	560	680	680	680	680
H	(6) mm	980	980	980	1150	1150	1150	1150
Operating weight	(6) kg	160	170	175	220	230	235	250

Notes:

1 Plant (side) cooling exchanger water (in/out) = 12°C/7°C; Source (side) heat exchanger water (in/out) = 30°C/35°C.

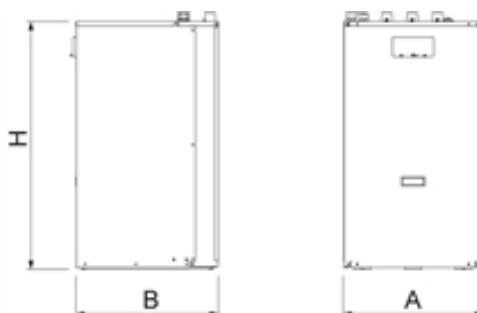
2 Values in compliance with EN14511-3:2013.

3 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, indoors.

6 Unit in standard configuration/execution, without optional accessories.



HE 0011 - 0121



Version

FF Basic 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.
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.

Accessory

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

Condenserless unit 4,70-32,4 kW

HH 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.

Controls

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		0011	0021	0025	0031	0021	0025	0031
Power supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING								
Cooling capacity	(1) kW	4,70	6,10	7,00	8,20	6,10	7,00	8,20
Total power input	(1) kW	1,60	2,10	2,50	2,90	2,10	2,40	2,90
EER	(1) kW/kW	2,84	2,89	2,80	2,79	2,94	2,86	2,86
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) m³/h	0,90	1,10	1,30	1,50	1,10	1,30	1,50
Available unit's head	(1) kPa	22,0	24,0	26,0	27,0	24,0	26,0	27,0
COMPRESSORS								
Compressors nr.	N°	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1
NOISE LEVEL								
Noise Pressure	(2) dB(A)	43	43	48	48	43	48	48
Sound power level in cooling	(3) dB(A)							
SIZE AND WEIGHT								
A	(4) mm	450	450	450	450	450	450	450
B	(4) mm	400	400	400	400	400	400	400
H	(4) mm	960	960	960	960	960	960	960
Operating weight	(4) kg	68	70	71	74	70	71	74

HE / FF		0041	0051	0061	0071	0091	0101	0121
Power supply	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE								
COOLING								
Cooling capacity	(1) kW	10,5	12,5	15,0	19,1	22,2	26,8	32,4
Total power input	(1) kW	3,40	4,20	4,90	6,30	7,80	8,90	10,9
EER	(1) kW/kW	3,06	2,97	3,07	3,03	2,86	3,00	2,96
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1) m³/h	1,90	2,30	2,80	3,40	4,10	4,80	5,90
Available unit's head	(1) kPa	19,0	20,0	20,0	23,0	22,0	23,0	23,0
COMPRESSORS								
Compressors nr.	N°	1	1	1	1	1	1	1
No. Circuits	N°	1	1	1	1	1	1	1
NOISE LEVEL								
Noise Pressure	(2) dB(A)	52	52	52	52	52	53	53
Sound power level in cooling	(3) dB(A)							
SIZE AND WEIGHT								
A	(4) mm	450	450	450	600	600	600	600
B	(4) mm	400	400	400	600	600	600	600
H	(4) mm	960	960	960	960	960	960	960
Operating weight	(4) kg	85	87	90	177	180	187	190

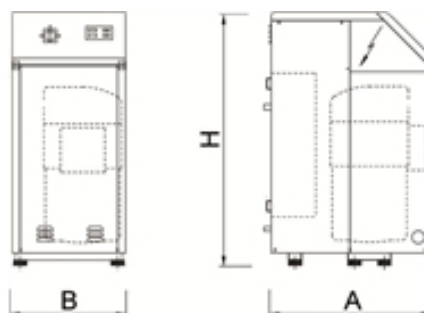
Notes:

1 Plant (side) cooling exchanger water (in/out) = 12°C/7°C; Condensation temperature = 47°C.

2 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

3 Sound power on the basis of measurements made in compliance with ISO 9614.

4 Unit in standard configuration/execution, without optional accessories.



NHCR 0011-21 - 0121



Features

Structure and base in hot-dip galvanised steel with epoxy powder paint finish. Finned coil exchanger made from copper tubes and aluminium fins. The aluminium fins are correctly spaced to guarantee optimum heat exchange efficiency.

Remote condenser with axial fans 7,90-40,1 kW

Remote condensers with axial-type fans for outdoor installation. Installation may be vertical with a horizontal air outflow or, using special brackets, horizontal with an upward air outflow.

NHCR			0011-21	0025-31-41	0051	0061	0071-91	0101	0121
Power supply	V/ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
PERFORMANCE									
NOMINAL SPECIFICATIONS									
Rated capacity	(1)	kW	7,90	15,9	16,3	24,0	25,5	32,7	40,1
No. Circuits		N°	1	1	1	1	1	1	1
Total power input	(1)	kW	0,16	0,32	0,27	0,48	0,54	0,54	0,81
FANS									
Air flow		m³/h	2267	4535	4899	6802	10330	9798	15500
NOISE LEVEL									
Noise Pressure	(2)	dB(A)	33	36	35	38	38	38	40
SIZE AND WEIGHT									
A	(3)	mm	780	1380	1105	1980	2005	2005	2905
H	(3)	mm	555	555	828	555	828	828	828
B	(3)	mm	362	362	428	362	428	428	428
Operating weight	(3)	kg	20	38	43	51	76	84	111

Notes:

1 Exchanger air (in) 35 °C; $\Delta T = 17$ K.

2 Average sound pressure level, at a distance of 10 m, for units in a free field on a reflecting surface. The average sound pressure level is calculated based on the sound power level measured in accordance with ISO 3744.

3 Unit in standard configuration/execution, without optional accessories.

