

H(R)CF 025÷120

Cooling capacity: 5.8÷28.8 kW

Heating capacity: 6.5÷32.6 kW



FEATURES

STRUCTURE

Panels and base frame are made from galvanized steel protected with polyester powder painting to ensure total resistance to atmospheric agents.

HERMETIC COMPRESSORS

Single phase rotary type (mod.025 only) and scroll type (mod.030÷035) compressors, 3-phase scroll compressor (mod.040÷120), with thermal overload cut-out and crankcase heater mounted on rubber vibration isolators. Models 030÷035 are available also with 3-phase scroll compressor and mod.040 with single phase scroll compressor.

AXIAL FANS

External rotor type axial fans, equipped with single phase direct drive motors, low noise 6 poles, protection level IP54, provided with a protective outlet grille.

EVAPORATOR

High efficiency stainless steel brazed plate heat exchanger, factory insulated with flexible close cell material.

CONDENSER

Coils are consisting of seamless copper tubes mechanically expanded into blue hydrophilic aluminum fins, protected with flexible plastic grill.

REFRIGERANT CIRCUIT

Copper tube connection with charge valve, filter drier (filter for 025÷035), gas-liquid separator, thermostatic expansion valve (expansion capillary tubes for mod. 025÷035), low pressure switch with automatic reset, high pressure switch with manual reset.

The heat pump unit is completed also with 4-way valve, liquid receiver and one way valve.

HYDRONIC CIRCUIT

Built with air vent valve, water drain connection, water circuit safety valve, water pump, differential pressure switch, expansion vessel, male-threaded hydraulic connectors and inertial water storage tank (galvanized steel for mod. 025÷060 and stainless steel for mod. 080÷120).

ELECTRIC PANEL

consists of:

- Compressor contactor;
- Water pump contactor;
- Compressor protection breaker;
- Water pump protection breaker
- Fan motor protection breaker;
- Control circuit protection breaker;
- Phase sequence relay (only for 3-phase power supplied units);
- Fan speed regulator (for mod. 080 and 100);
- Programmable microprocessor controller;

NOMENCLATURE

H R C F 030

① ② ③ ④ ⑤

① Mini chiller

② Unit type:

R : heat pump

-- : cooling only

③ Refrigerant type

--: R22

A: R410a

B: R290

C: R407c

④ Air cooled

⑤ Size

TECHNICAL DATA

Model	HRCF/HCF	025	030	035	040	050	060	080	100	120
Cooling capacity*	kW	5.8	8.2	9.2	11	13	14.7	19.0	24.1	28.8
Heating capacity**	kW	6.5	9.1	10.1	12.5	15.6	16.4	21.2	27.8	32.6
Compressor										
Qty/refrigerant circuit	Nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Cooling power input*	kW	1.9	2.7	3.1	3.4	4.3	5.0	6.3	8.1	9.9
Heating power input**	kW	2.1	2.8	3.3	3.6	4.6	5.5	7.1	9.2	11.3
Axial fans										
Quantity	Nr.	1	1	1	2	2	2	1	1	1
Airflow	m ³ /h	2860	3340	3810	4400	5550	6700	8200	10900	12500
Evaporator										
Water flow	m ³ /h	0.99	1.41	1.58	1.89	2.23	2.57	3.43	4.29	5.15
Water side pressure drop	kPa	13	17	19	44	48	56	26	30	55
Water pump										
Available pressure head	kPa	47	42	40	170	148	124	163	140	95
Storage tank										
	l	15	15	15	18	18	18	75	75	75
Power supply										
	/	< - - 220V/1Ph/50Hz - - >				380V/3Ph/50Hz			- - >	
Noise level***										
	dB(A)	50	55	56	60	60	62	65	65	65
Dimensions										
Length	mm	1300	1300	1300	1300	1300	1300	1200	1300	1300
Width	mm	460	460	460	560	560	560	1000	1100	1100
Height	mm	975	975	975	1275	1275	1275	1100	1100	1100
Net weight										
	kg	134	136	138	146	148	150	222	248	251

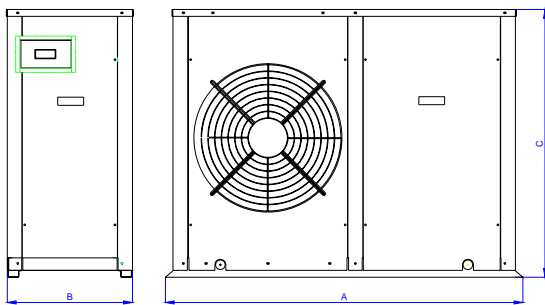
* Ambient temperature 35°C; evaporator water in/out 12/7 °C;

** Ambient temperature DB 7 °C, WB 6 °C; condenser water in/out temperature 40/45 °C;

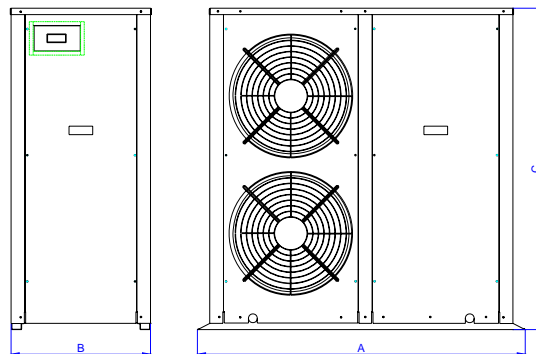
*** Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a dear field (fan side).

OVERALL DIMENSIONS

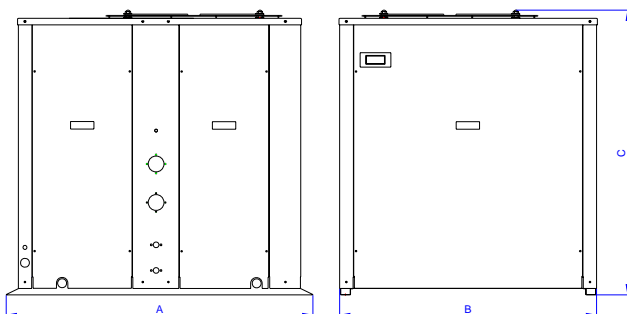
Mod. 025-030-035



Mod.040-050-060



Mod.080-100-120



Mod.	025	030	035	040	050	060	080	100	120
A	1300	1300	1300	1300	1300	1300	1200	1300	1300
B	560	560	560	560	560	560	1000	1100	1100
C	1275	1275	1275	1275	1275	1275	1100	1100	1100

The technical data in this document are not binding.
Bright A/C reserves the right to make whatever modifications it deems necessary to improve the product at any time.

Bright Air Conditioning Co.,Ltd.

E-mail: intl@sbright.com.cn brightdz@gmail.com
www.brightaircon.com