CLIVETPACK2 FFA

Roof Top air-cooled reversible heat pump
Capacity from 40 to 90 kW

Heat pump | Air cooled | Outdoor installation | R-410A | Ice protection system | FREE-COOLING | Thermodynamic recovery | ECOBREEZE | Electronically commutated Fan | Constant Airflow | INTELLIAIR

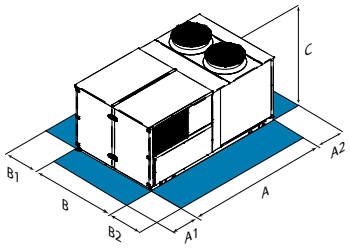
- ✓Specifically designed for 100% fresh air conditioning application
- ✓No contamination between supply and exhaust air
- ✓High part load efficiency
- ✓Smart Freecooling and Defrosting management
- ✓Enhanced air filtration with low ventilation consumption
- ✓Thermodynamic recovery
- ✓Compliant with main communication protocols (Modbus, Bacnet and Lonworks)
- ✓Many available configurations suitable for the most different project situation
- ✓Interaction with third part extraction systems
- ✓All component included on board for an enhanced installation
- ✓Remote and centralized system monitoring through INTELLIAIR

Versions and configurations

CONFIGURATION:

CBFFA	Configuration for fresh air supply only (Standard)
CCFFA	Configuration for fresh air supply with extraction and exhaust

Dimensions and connections



CAUTION!
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the blue areas.

Size	CSRN-XHE2-FFA		12.2	16.2	20.4	22.4	24.4
CBFFA	A - Length	mm	2090	2090	3110	3110	3110
CBFFA	B - Width	mm	2300	2300	2300	2300	2300
CBFFA	C - Height	mm	1560	1560	1650	1650	1650
CBFFA	A1	mm	1500	1500	1500	1500	1500
CBFFA	A2	mm	1500	1500	1500	1500	1500
CBFFA	B1	mm	1500	1500	1500	1500	1500
CBFFA	B2	mm	1500	1500	1500	1500	1500
CBFFA	Operating weight	kg	1273	1297	1358	1393	1427
CCFFA	Operating weight	kg	1401	1425	1560	1595	1629

The above mentioned data are referred to standard units for the constructive configurations indicated.
For all the other configurations, refer to the relative Technical Bulletin.

CBFFA Configuration for fresh air supply only
CCFFA Configuration for fresh air supply with extraction and exhaust

Technical data

Size		CSRN-XHE2-FFA		12.2	16.2	20.4	22.4	24.4
CBFFA	Cooling capacity	(1)	kW	39,8	49,5	76,1	83,4	90,4
CBFFA	Sensible capacity	(1)	kW	21,5	27,8	38,3	43,3	48,0
CBFFA	Compressor power input	(1)	kW	9,4	12,9	20,0	21,7	23,3
CBFFA	EER	(1)	-	4,23	3,84	3,81	3,84	3,88
CBFFA	Heating capacity	(2)	kW	39,6	50,0	73,2	81,4	89,5
CBFFA	Compressor power input	(2)	kW	9,9	11,9	17,2	18,2	20,7
CBFFA	COP	(2)	-	4,00	4,20	4,26	4,47	4,32
CBFFA	Refrigeration circuits		Nr	2	2	2	2	2
CBFFA	No. of compressors		Nr	2	2	4	4	4
CBFFA	Type of compressors	(3)	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
CBFFA	Nominal supply airflow		m³/h	3400	4500	6000	7000	8000
CBFFA	Airflow range		m³/h	3000-4000	4000-5300	5300-6500	6400-7600	7300-9000
CBFFA	Type of supply fan	(4)	-	RAD/EC	RAD/EC	RAD/EC	RAD/EC	RAD/EC
CBFFA	Number of supply fans		Nr	1	1	1	1	1
CBFFA	Max. static pressure supply fan	(5)	Pa	675	470	775	730	650
CBFFA	Type of external fan	(4)	-	AX/AC	AX/AC	AX/AC	AX/AC	AX/AC
CBFFA	Standard power supply		V	400/3~/50	400/3~/50	400/3~/50	400/3~/50	400/3~/50
Sound power level outside		(6)	dB(A)	83	85	84	85	87

Performance refers to operation with 80% of expelled and outdoor air
(1) Ambient air at 27°C D.B./19°C W.B. Outdoor air temperature: 35°C D.B./ 24°C W.B; EER referred only to compressors
(2) Ambient temperature 20°C DB. Outside temperature 7°C DB/6°C WB; COP referred only to compressors
(3) SCROLL = Scroll compressor
(4) RAD = Radial fan; AX = Axial Fan; EC = Electronically Commutated
(5) Available nett pressure to overcome the supply
(6) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard.

CBFFA Configuration for fresh air supply only

Accessories

RE1	Thermodynamic heat recovery system (CCFFA version)
M3	Downward air supply
M5	Upflow air supply
R3	Downward air return
PCOSM	Constant supply airflow
PCOSME	Constant airflow in supply and exhaust (CCFFA version)
CREFB	Device for fan consumption reduction of the external section, ECOBREEZE type (sizes 20.4÷24.4)
VENH	High static pressure fans
F7	High efficiency F7 air filter (ISO 16890 ePM1 55%)
F9	High efficiency F9 air filter (ISO 16890 ePM1 80%)
FIFD	Electronic filter with iFD technology (ISO 16890 ePM1 90%)
PSAF	Differential pressure switch for dirty air filters
EH12	9 kW electric heaters (size 12.2÷16.2)
EH15	13,5 kW electric heaters (sizes 12.2÷16.2)
EH17	18 kW electric heaters (size 20.4÷24.4)
EH22	27 kW electric heaters (sizes 20.4÷24.4)
CHW2	Two-rows hot water coil
3WVM	3-way modulating valve
2WVM	2-way modulating valve
GC01X	Condensing gas heating module with modulating control 35 kW (sizes 12.2÷16.2)
GC08X	Condensing gas heating module with modulating control 44 kW (sizes 12.2÷16.2)
GC09X	Condensing gas heating module with modulating control 65kW
GC10X	Condensing gas heating module with modulating control 82 kW (sizes 20.4÷24.4)
LTEMP1	Application for low outdoor temperature
PGFC	Finned coil protection grilles
PGCCH	Anti-hail protection grilles
CPHG	Hot gas re-heating coil
HSE5	5 kg/h immersed electrodes steam humidifier (size 12.2÷16.2)
HSE8	8 kg/h immersed electrodes steam humidifier (size
HSE9	15 kg/h immersed electrodes steam humidifier (size 20.4÷24.4)
MHP	High and low pressure gauges
CMSC9	Serial communication module for Modbus supervisor
CMSC10	Serial communication module for LonWorks supervisor
CMSC11	Serial communication module for BACnet-IP supervisor
CTERM	Remote keypad for indoor temperature and humidity control
PM	Phase monitor
PFCC	Power factor correction capacitors (cosfi > 0.95)
SFSTC	Progressive compressor start-up device
PTAAX	Remote ambient air temperature sensor
PTUAX	Remote ambient air temperature and humidity probe
IOTX	It1IIoT industrial module for cloud based interoperability & services
PCM0	Sandwich panels of the handling zone in M0 fire reaction class
PTCO	Set up for shipping via container
AMRX	Rubber antivibration mounts
AMRMX	Rubber antivibration mounts for unit and gas module
RCX	Roof curb

Accessories whose code ends with "X" are supplied separately
For compatibility between the various accessories, please refer to the dedicated Technical Bulletin or our website in the Systems and Products section.

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