

*Cased and uncased water
terminal unit*

AURA

CFF - CFFA 1-12 RANGE

TECHNICAL BULLETIN



SIZE	1	2	3	4	5	6	7	8	9	10	11	12
COOLING CAPACITY DC KW	1,50	1,95	2,35	2,85	3,50	3,90	4,30	4,85	5,60	6,35	7,35	8,25
COOLING CAPACITY AC KW	1,65	2,25	2,65	3,05	3,85	4,20	4,65	5,35	6,00	6,75	7,35	8,25

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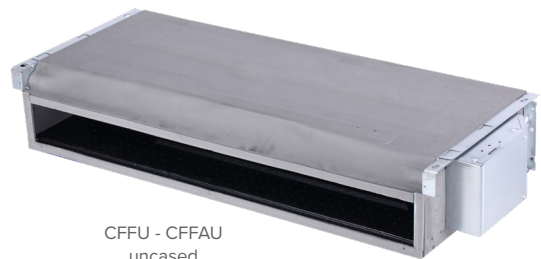
Features and benefits	3
Standard unit technical specifications	8
Accessories separately supplied	9
General technical data	14
Dimensions	29

Features and benefits

AURA is the fan-coil for floor or ceiling installation for extreme comfort with an innovative design, in line with the standards of modern European environments, thanks to a meticulous study of the lines and materials.



CFFC - CFFAC
cased



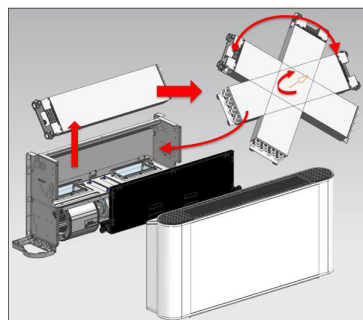
CFFU - CFFAU
uncased

Application flexibility

Thanks to the numerous configurations available, AURA flexibly and effectively is able to fulfill different application requirements. The fan coil is available in 2 and 4 pipes version. The unit can be selected with casing for exposed applications or uncased for built-in installation, and it is possible to install it vertically or horizontally. Air intake is available from the bottom of the unit (rear in case of horizontal installation) or from the front (bottom in case of horizontal installation, only for cased models).



To add further ease during the installation phase, AURA presents the installer with the possibility of moving the water pipes to the right side of the unit even on site, simply by removing the heat exchange coil and turning it over. Consequently, the control panel on the unit can be moved from one side to the other as well.



Reduced consumptions

The exclusive electric DC motor of AURA's (CFFC - CFFU models) fan ensures reduced consumption as the ventilation can be modulated.

The high efficiency levels of its innovative technological solution noticeably limits the energy required to operate it correctly, thereby reducing the power used and running costs compared with traditional fan-coils.

Compared with a traditional fan-coil, it is possible to achieve savings of about 40% in terms of electricity and 60% in terms of absolute power.

Silent

Thanks to the use of modulating fans and a careful study of the internal components, AURA is one of the best units on the market for silent operation.

When the fan is operating at minimum speed, AURA reaches a sound pressure of only 20 dB(A)*

*For the CFFC 3 version at minimum speed. The sound pressure level refers to a distance of 1m from the surface of the unit operating in an open field.

A single terminal for all seasons

With a single terminal it is possible to heat up in winter, while in summer it allows you to cool down and dehumidify rooms. AURA guarantees well-being all year round because it reaches the desired temperature quickly and does not take long to heat up the rooms.



Functions and usability - DC Inverter AURA models: CFFC - CFFU

In the DC version, AURA fan coil is compatible with the optional KJRP-75 user interface.

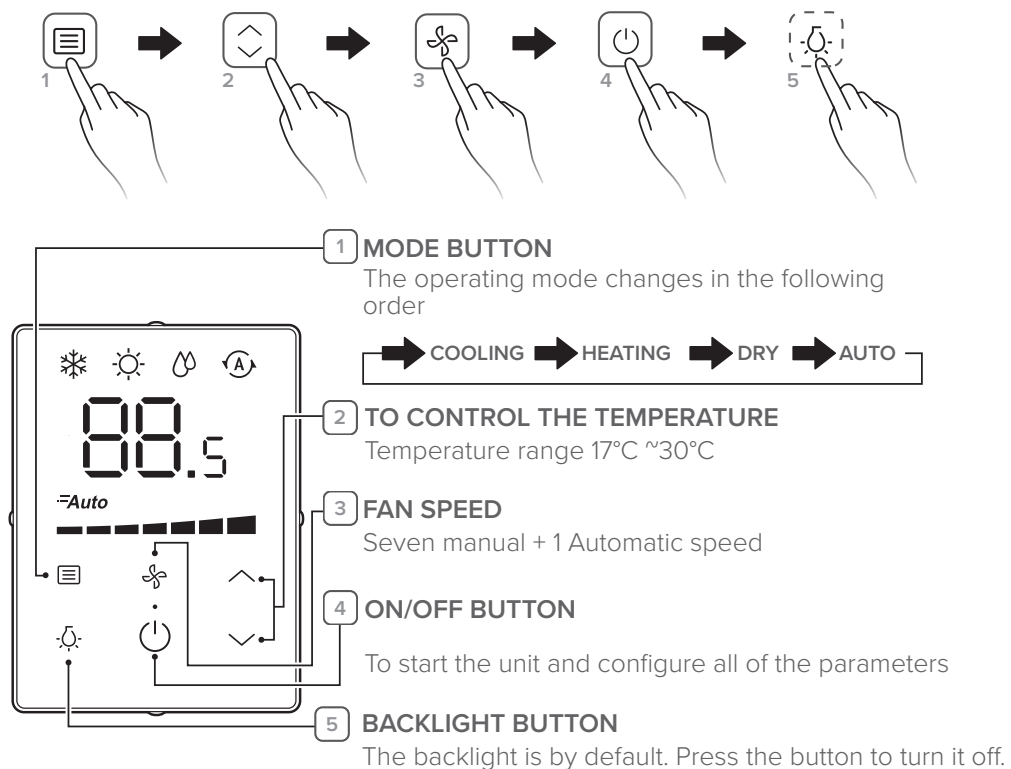


KJRP-75

The controller is supplied installed on board (for cased versions) or supplied separately for application in a remote position on the wall.

The interface has a touch screen, backlight and 7-step + AUTO ventilation speed control.

The interface also has a temperature sensor, the room temperature reading can be moved from the unit's return channel to the interface itself with the Follow-me function.



Features and benefits

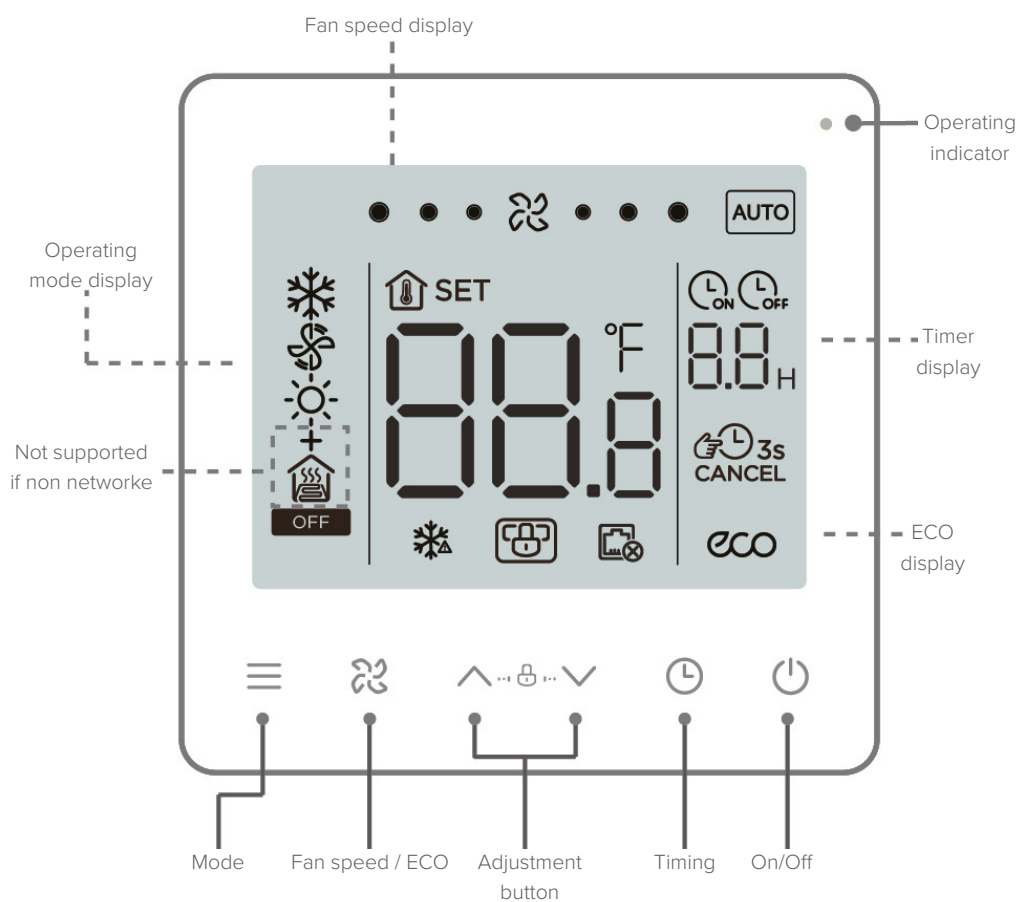
Functions and usability - AURA AC models: CFFAC - CFFAU

In the AC version, the AURA fan coil is compatible with the optional KJRP-86 user interface.



KJRP-86

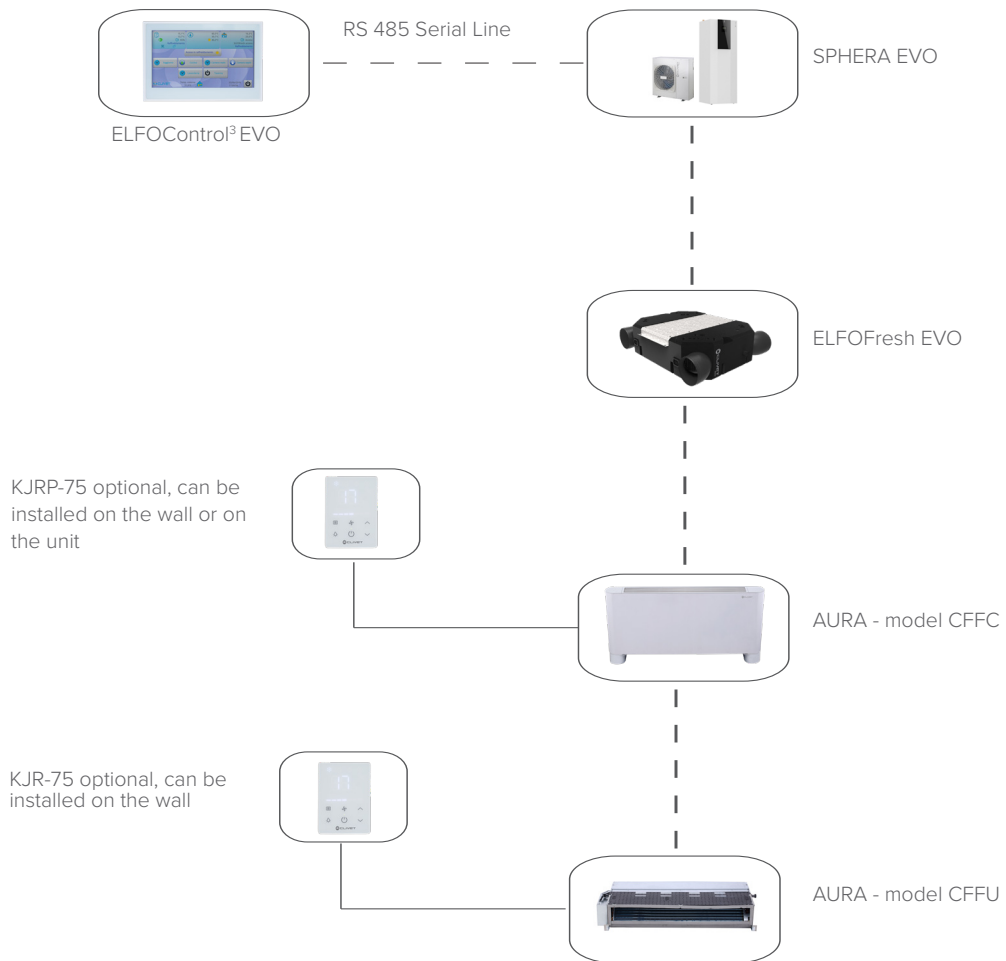
The controller is supplied installed on board (for cased versions) or supplied separately for application in a remote position on the wall. The interface has a touch screen, backlight and 3-step + AUTO ventilation speed control.



Connectivity

AURA, in the DC inverter models CFFC and CFFU, is compatible with ELFOControl³ EVO, the centralised management system designed for 360° control of Clivet systems.

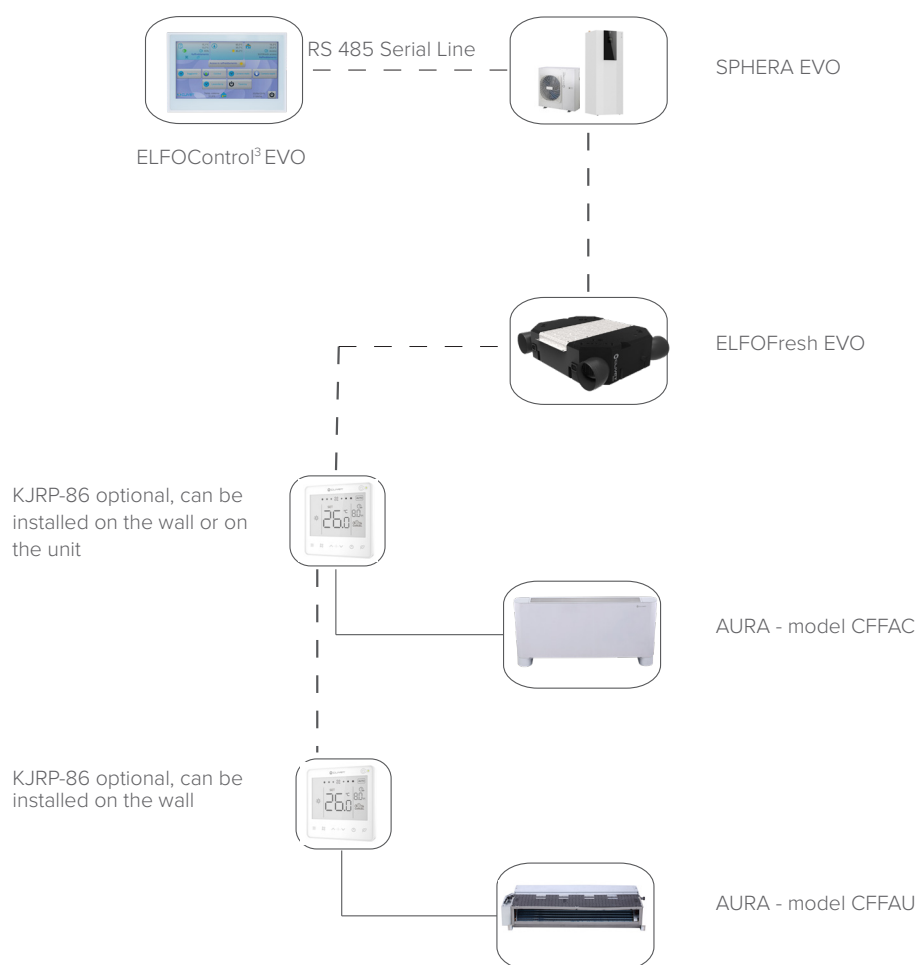
Furthermore, the unit has a Modbus port for control via an external home automation system, as well as an input for on/off potential-free contact and a 0-10V input for adjusting the ventilation speed.



Features and benefits

Connectivity

The AC version of AURA (CFFAC and CFFAU) can be integrated with ELFOControl3 EVO and third party supplied BMS as well, thanks to the Modbus port present on the optional user interface KJRP-86.



Standard unit technical specifications

Structure

The unit is made of galvanised steel with thermal insulation foam inside and an anti-condensation barrier on the outer casing.

Internal exchanger

It consists of copper pipes and aluminium fins, with hydrophilic coating, fixed to the pipes with mechanical expansion process and shaped accordingly. 2 and 4 pipes models have coils with 3 or 4 rows. The exchanger is not suitable for use in corrosive atmospheres or in environments where aluminium may corrode.

Fan

The motor-fan unit, hanging on antivibration mounts, is particularly silent. Modulating DC Inverter electric motor (CFFC - CFFU models), or 3 speed AC (CFFAC - CFFAU models).

Filtration

Washable renewable synthetic filter, G2/ISO Coarse, easily accessible.

Condensate drain

The unit is standard supplied with an L-shaped drain tray to ensure that condensate can be drained when the unit is installed horizontally or vertically.

Electrical panel

Electrical panel inside the unit on the right for full and easy accessibility. The wired controller supplied as standard can be installed either on the wall or assembled in the space provided on the unit.

Main components

1. Copper/aluminium exchanger, with hydrophilic coating
2. Electrical panel
3. L-Drain pan
4. 3/4" Water fittings
5. Condensate drain (Ø18,5mm)
6. Centrifugal fan
7. Washable filter (class G2)
8. Galvanised sheet metal casing

Versions and configurations

Versions:

CFFC - Cased version for vertical and horizontal installation, DC inverter motor

CFFU - Uncased version for vertical and horizontal installation, DC inverter motor

CFFAC - Cased version for vertical and horizontal installation, AC motor

CFFAU - Uncased version for vertical and horizontal installation, AC motor

Fans type:

VEC - DC high efficiency fan (Standard for CFFC - CFFU models)

VEVS - Three speed AC fan (Standard for CFFAC - CFFAU models)

Connection side:

SX - Pipes connection on the left (default)

DX - Pipes connection on the right

HMI on board:

HMIDM - KJRP-75 control mounted on board (only for versions DC CFFC)

HMIAM - KJRP-86 control mounted on board (only for versions AC CFFAC)

Attention, the following models are available on order only, please contact the sales network:

- DC, 2-pipe, front intake, cased
- DC, 4-pipe, bottom intake, cased and uncased
- DC, 4-pipe, Front intake, cased
- AC, 4-pipe, Front intake, cased

Common accessories:

BRVHX - Auxiliary condensate collection tray auxiliary for vertical/horizontal installation

KPDX - Plinth kit

3V2SX - Three-way valve kit for 2-pipe type "on/off" system left fittings

3V4SX - Three-way valve kit for 4-pipe type "on/off" system left fittings

AC accessories models (CFFAC - CFFAU):

HMIFACX - KJRP-86 user interface, wire for models AC CFFAC - CFFAU

BOXX - Wall installation with concealed box

DC accessories models (CFFC - CFFU):

HMIFDCX - KJRP-75 user interface, wire for models DC inverter CFFC - CFFU

EXTENX - KJRP-75 wired control connection cable extension (2m)

KJR-90DX - KJR-90D electronic room control for wall installation

KJR-150AX - Indoor units group controller

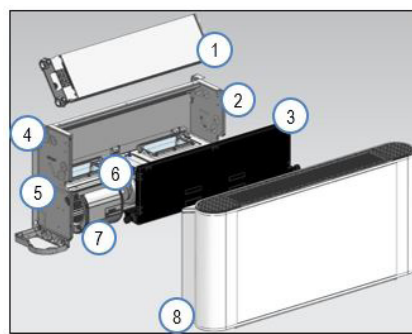
CCM08X - BACNET Protocol converter (gateway)

LONGWX - LONWORKS Protocol converter (gateway)

CCM30-BX - Centralized controller with case

CCM180X - Central controller for wall mounting weekly timer 6.2" (Refer to VRF price list)

CCM270X - Central controller for wall mounting weekly timer 10.1" (Refer to VRF price list)



Valves kit:

3V2 - Three-way valve kit for 2-pipe "on/off" system (mounted on board)

3V4 - Three-way valve kit for 4-pipe "on/off" system (mounted on board)

Air intake:

R3 - Bottom air intake

RF - Front air intake (only for cased versions CFFC, CFFAC)

Coil configuration:

CC2 - Coil configuration for 2-pipe system

CC4 - Coil configuration for 4-pipe system

Electronic Version:

CTMP1 - Electronics with serial port RS485 Modbus, external control input 0/10V, 3-speed input (Standard for CFFC-CFFU models)

TRB - Terminal for motor connection (Standard for CFFAC-CFFAU models)

Accessories separately supplied

HMIFDCX

User interface for DC inverter models

User interface KJRP-75 DC inverter models for wall or on-board installation

Functions:

- Backlit
- Basic functions
- 7 fan speeds + AUTO
- Follow-me (temperature reading from interface)

Cable length 85mm. Bidirectional control.



HMIFACX

User interface for AC models

User interface KJRP-86 AC models for wall or on-board installation three-speed

Functions:

- Backlit
- Basic functions
- 3 fan speeds + AUTO
- Timer
- Modbus Port

For wall installation refer to the BOXX accessory



EXTENX

KJRP-75 Wired Control Connection Cable Extension (2m)

2 m long extension cable for remote installation of the KJRP-75 (HMIDCX) user interface.

Refer to the user interface manual.



3V2X 3V4X

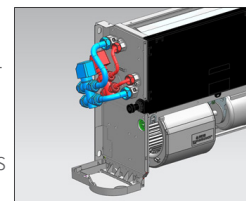
Three-way valve kit for 2-pipe type "on/off" system Three-way valve kit for 4-pipe type "on/off" system

Kit consisting of 3-way on/off valves and fittings for connection to the unit.

Compatible with BRVHX auxiliary condensate drain pan if the water pipes come out of the wall (vertical installation) or ceiling (horizontal installation).

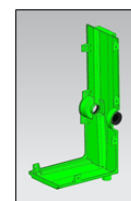
Not compatible with BRVHX auxiliary condensate drain pan if the water pipes come out of the floor (vertical installation) or from behind the unit (horizontal installation) or from the side of the unit. In this case, the installer shall supply and install the thermal insulation of the valve kit.

3V2SX - 3V4SX: kit for pipes on the left



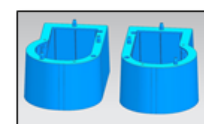
BRVHX

Auxiliary condensate collection tray auxiliary for vertical/horizontal installation



KPDX

Plinth kit



BOXX

Box for wall installation of KJRP-86 user interface

Wall built-in electrical box measuring LxHxD (mm) 86x86x33 suitable for wall installation of the KJRP-86 (HMIACX) user interface.

Once installed, the interface protrudes 9 mm from the flush wall.

Refer to the user interface manual.



CCM08X

BACNET Protocol converter (gateway) for DC inverter models

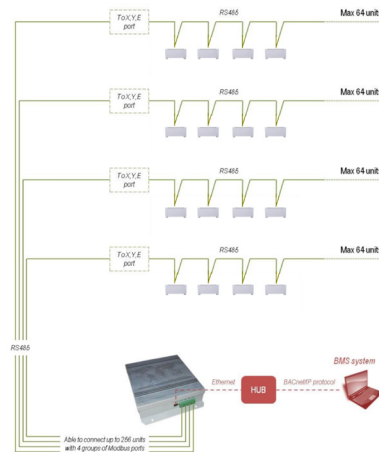
Each gateway can be connected to an fancoil unit's X,Y,E ports (up to 256 units), with built-in IP access.

It is also compatible with connections of up to four CCM30BX centralized controller through F1, F2, E ports.

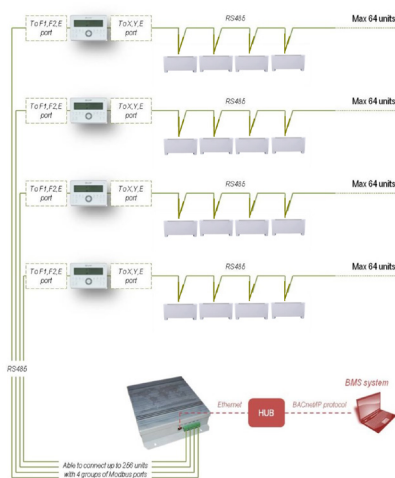


Model	CCM08X
Dimensions LxAxP (mm)	319x251x61
Power supply	AC 220V~50/60Hz

Installation schematic - Connecting to fancoil unit port X, Y, E



Installation schematic - Connection to CCM30BX centralized control



Wide compatibility

The CCM08X is fully compatible with a wide range of leading Building Management System

	Company	Software BMS	Brand
1	Apogee Electronics	APOGEE	
2	Trane	Tracer Summit	
3	Honeywell	Alerton	
4	Schneider	Andover	
5	Johnson	METASYS	

Accessories separately supplied

CCM30-BX Centralized controller with case for DC inverter models



The centralized controllers are multifunctional devices that can control up to 64 indoor units within a maximum connection length of 1.200m. These controls give the user the opportunity to control multiple units as a single group, or alternatively to assign an individual temperature for each on

Single/unified control mode

Controllers can be toggled between unified and single control modes, to enable either unified control of all units or control of a specific unit. Operating mode feedback is used to ensure that all units are operating in the mode specified by the user.

Multi-system control

Controlled units can be from different VRF/Mini VRF systems, totally up to 64 indoor units: this allows a centralized control that facilitates the building management. Ensure that the address is not repeated for more units.



Fancoil units operating status display

Error and protection codes are shown directly on centralized controllers' displays, avoiding the need to access outdoor units' PCBs to obtain codes during a system event. A wide range of error and protection codes provide system status information to building management professionals before contacting a service engineer.

Codice di errore e di protezione				Matrice status unità															
Current	Set. temp	Mode	Auto	Query Set Opr. unsuccess															
88#	ALL Protect 88°C	Mode	Auto	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Online ON OFF Error				16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
T2A T2B T3	Period 1 2 3 4			32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Room. temp	ON OFF 88:80			48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Week Sun Mon Tue Wed Thu Fri Sat				Weekly Timer Off															
88:18 28:28:88																			
Year Mon Day																			

Multiple lock modes

In addition to locking the centralized controller's own keyboard, the centralized controller may also be used to lock each unit's operating mode or remote controller.

Clean filter reminder

The CCM30BX record the total running time of each indoor unit. When the accumulated running time reaches the value pre-set by the user, the system reminds the user to clean the indoor unit's filter, ensuring that the airflow does not become obstructed.



Model	CCM30BX
Dimensions LxAxP (mm)	180x122x78
Power supply	198-242V (50/60Hz)

CCM30-BX Centralized controller with case for DC inverter models

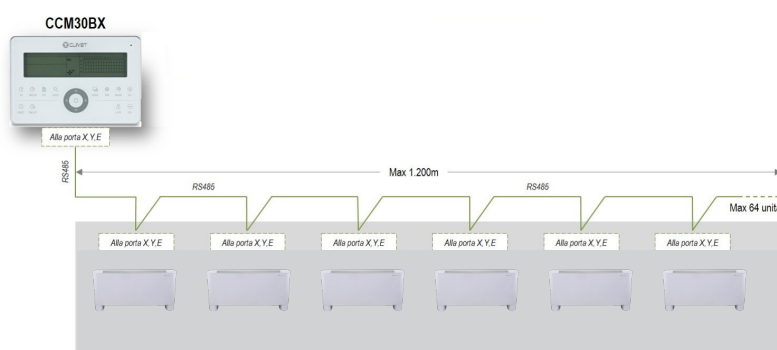
Main features

- Setting On/Off
 - Setting mode Cool/Heat/Auto/Dry/Fan
 - Setting temperature
 - Fan speed selection High/Medium/Low/Auto
 - Air swing function
 - 24h On/Off timer
 - Locking the controller buttons
 - Air filter cleaning reminder
- Turn On/Off the LCD backlight



Installation schematic

The centralized controller can connect up to 64 indoor units on the network monitoring and building management systems.



KJR-90DX KJR-90D electronic room control for wall installation for DC inverter models

KJR90 LCD "touch-key" wall-mounted control.

Functions:

- On/Off
- Operation selection: Auto, Heating, Cooling, Dehumidification, Ventilation
- Temperature setting (temperature range selectable: 17~30°C)
- Set the fan speed (MIN - MED - MAX or AUTO)
- Timer setting
- Setting of deflectors position (swing)

Many additional functions such as:

- ECO mode
- Controller keypad lock
- Timed remainder air filter cleaning

The controller can be easily connected to the internal unit display by means of a connecting cable.

The control can be installed up to a max. distance of 15mt.



KJR-150AX Indoor units group controller for DC inverter models

Allows the group control of up to 16 fancoil units from a single wall control KJR90X.

Each unit's operating parameters can also be individually controlled using its own remote controller R05.



Accessories separately supplied

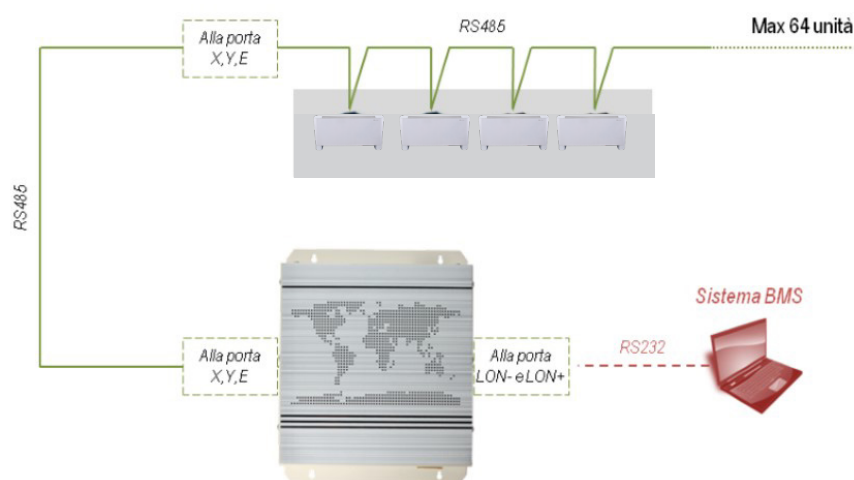
LONGWX LonWorks gateway for DC inverter models

Each gateway can connect up to 64 indoor units, directly to their XYE ports or through outdoor unit..

Model	LONGWX
Dimensions LxAxP (mm)	319x251x61
Power supply	AC 220V~50/60Hz



Installation schematic - Connecting to fancoil unit port X, Y, E



CCM-180 CCM-270

CCM180X - Central controller for wall mounting weekly timer 6.2" (Riferirsi al listino VRF)
CCM270X - Central controller for wall mounting weekly timer 10.1" (Riferirsi al listino VRF).

Advanced Centralized Controllers.

The colorful touch screen and lively display make the interface more convenient and simple. The controller recognizes the model of indoor and outdoor units and different models are represented by different icons.

Units can be viewed according to group, system or location, making unit management clearer and more convenient.

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.

User can set limits or locks on an indoor unit, such as minimum cooling temperature, maximum heating temperature, fan speed lock, operation mode lock, swing lock, remote controller lock and wired controller lock.

By importing floor **plans** and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.

A desktop or laptop PC can be used for browser-based access via a LAN connection.



- ⚠ For a list of functions compatible with AURA, refer to the centralised control manual.
- ⚠ For the selection, price and discount of these accessories refer to the VRP price list, please contact the sales network.

DC Version - CFFC - CFFU, bottom intake, 2-pipe

SIZE			1	2	3	4	5	6	7	8	9	10	11	12
High speed														
Airflow		m³/h	255	255	400	425	595	595	790	800	1190	1190	1360	1300
Cooling capacity	(1)	kW	1,50	1,95	2,35	2,85	3,50	3,90	4,30	4,85	5,60	6,35	7,35	8,25
Sensible capacity	(1)	kW	1,14	1,42	1,79	2,06	2,65	2,90	3,25	3,63	4,62	4,98	5,87	6,12
Water flow-rate	(1)	l/h	260	330	400	490	600	670	740	830	960	1090	1270	1430
Water pressure drop	(1)	kPa	13,9	27,2	13,3	26	34,1	37,4	54,2	54,3	50,7	32,8	44,1	71,4
Heating capacity	(2)	kW	1,57	2,05	2,60	2,95	3,8	4,00	4,7	5,25	6,00	7,05	8,05	8,70
Water flow-rate	(2)	l/h	270	340	450	510	610	700	750	910	1040	1220	1390	1510
Water pressure drop	(2)	kPa	15,1	25,3	14,3	24,4	35,1	36,5	54,3	53,4	55,5	37,6	46,9	62,6
Total power input		W	15	20	17	20	26	29	50	52	96	92	113	102
Medium speed														
Airflow		m³/h	170	210	315	300	470	450	580	600	855	875	1015	980
Cooling capacity	(1)	kW	1,06	1,66	1,94	2,13	2,89	3,20	3,48	3,92	4,47	5,19	6,12	6,65
Sensible capacity	(1)	kW	0,77	1,19	1,44	1,51	2,14	2,35	2,56	2,85	3,60	3,98	4,74	4,82
Water flow-rate	(1)	l/h	180	280	340	370	500	550	600	670	770	900	1050	1140
Water pressure drop	(1)	kPa	8,21	20,88	9,98	15,06	24,63	25,91	36,22	36,81	33,38	21,75	33,7	46,17
Heating capacity	(2)	kW	1,07	1,75	2,11	2,15	3,1	3,22	3,7	4,09	4,77	5,61	6,46	6,81
Water flow-rate	(2)	l/h	190	280	370	370	480	560	600	710	830	980	1120	1180
Water pressure drop	(2)	kPa	7,63	19,65	10,33	13,65	24,41	25,34	36,87	36,54	37,66	25,47	31,9	41,06
Total power input		W	9	14	12	11	17	17	25	28	44	46	53	49
Low speed														
Airflow		m³/h	150	150	190	190	340	310	410	420	505	530	685	680
Cooling capacity	(1)	kW	0,92	1,21	1,19	1,41	2,22	2,43	2,71	2,93	3,14	3,62	4,57	4,84
Sensible capacity	(1)	kW	0,66	0,85	0,86	0,96	1,57	1,72	1,91	2,08	2,43	2,68	3,45	3,42
Water flow-rate	(1)	l/h	160	210	210	240	380	420	470	510	540	630	790	830
Water pressure drop	(1)	kPa	6,16	12,2	4,59	7,41	15,39	15,37	22,78	21,77	17,73	11,43	19,41	25,39
Heating capacity	(2)	kW	0,92	1,25	1,34	1,42	2,35	2,5	2,81	3,04	3,36	3,83	4,71	4,85
Water flow-rate	(2)	l/h	160	200	230	240	380	420	450	530	590	670	820	830
Water pressure drop	(2)	kPa	5,84	10,25	4,5	6,64	14,82	14,22	22,32	20,47	19,27	12,5	18,16	21,68
Total power input		W	8	9	7	8	10	11	14	15	17	19	22	22
Standard power supply		V	220-240/1/50											
Type of supply fan	(3)	-	CFG											
No. of supply fans		-	1	1	2	2	2	2	2	2	3	3	3	3

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

Airflow with free outlet (0 Pa static pressure)

(1) Entering exchanger water 7°C (temperature differential 5°C) - Ambient air 27°C D.B. / 19°C W.B.

(2) Entering exchanger water 45°C (temperature differential 5°C) - Ambient air 20°C

(3) CFG = centrifugal fan

Performance in heating and cooling mode when the environment and system conditions change

Refer to the selection software or to the "CFF AURA DC and AC performance tables" which can be downloaded at <https://world.clivet.it/>

General technical data

DC Version CFFC, front intake, 2-pipe (only on order)

High speed			1	2	3	4	5	6	7	8	9	10	11	12
Airflow		m³/h												
Cooling capacity	(1)	kW	245	245	380	380	580	580	780	780	1050	1050	1150	1150
Sensible capacity	(1)	kW	1,44	1,87	2,23	2,55	3,41	3,80	4,25	4,73	4,94	5,60	6,21	7,30
Water flow-rate	(1)	l/h	1,09	1,36	1,70	1,84	2,58	2,83	3,21	3,54	4,08	4,39	4,75	5,41
Water pressure drop	(1)	kPa	250	320	380	440	580	650	730	810	850	960	1060	1250
Heating capacity	(2)	kW	13,40	26,10	12,70	23,20	33,40	36,50	53,50	53,00	44,70	28,90	37,30	63,00
Water flow-rate	(2)	l/h	1,50	1,97	2,47	2,63	3,70	3,90	4,64	5,12	5,29	6,22	6,80	7,70
Water pressure drop	(2)	kPa	260	340	420	450	630	670	800	880	910	1.070	1.170	1.320
Total power input		W	14,50	24,00	13,60	21,80	34,20	35,60	53,60	52,00	49,00	33,20	39,70	55,00
Medium speed			19	20	20	21	27	30	50	52	98	99	105	105
Airflow		m³/h												
Cooling capacity	(1)	kW	160	180	245	240	435	430	550	560	750	770	850	860
Sensible capacity	(1)	kW	1,01	1,59	1,84	1,90	2,81	3,11	3,43	3,82	3,94	4,58	5,17	5,88
Water flow-rate	(1)	l/h	0,74	1,14	1,36	1,35	2,08	2,29	2,52	2,77	3,17	3,51	4,00	4,26
Water pressure drop	(1)	kPa	170	270	320	330	480	530	590	650	680	790	890	1010
Heating capacity	(2)	kW	7,90	20,10	9,50	13,50	24,00	25,30	35,80	35,90	29,50	19,20	28,50	40,80
Water flow-rate	(2)	l/h	1,02	1,68	2,00	1,92	3,02	3,13	3,65	3,98	4,20	4,95	5,46	6,02
Water pressure drop	(2)	kPa	170	290	340	330	520	540	630	680	720	850	940	1.030
Total power input		W	7,30	18,80	9,80	12,20	23,80	24,70	36,40	35,60	33,20	22,50	27,00	36,40
Low speed			15	16	13	12	18	18	26	28	45	50	50	50
Airflow		m³/h												
Cooling capacity	(1)	kW	135	130	140	110	310	300	380	390	450	460	570	600
Sensible capacity	(1)	kW	0,88	1,16	1,13	1,26	2,16	2,36	2,67	2,85	2,77	3,19	3,86	4,28
Water flow-rate	(1)	l/h	0,63	0,81	0,81	0,85	1,53	1,67	1,88	2,02	2,14	2,36	2,91	3,02
Water pressure drop	(1)	kPa	150	200	190	220	370	400	460	490	470	550	660	730
Heating capacity	(2)	kW	6,00	11,80	4,40	6,60	15,00	15,00	24,10	21,20	15,60	10,10	16,40	22,50
Water flow-rate	(2)	l/h	0,88	1,20	1,27	1,27	2,29	2,43	2,77	2,96	2,96	3,37	3,98	4,29
Water pressure drop	(2)	kPa	150	210	220	220	390	400	470	510	510	580	680	740
Total power input		W	5,60	9,90	4,30	5,90	14,50	13,90	22,00	20,00	17,00	11,00	15,40	19,20
Standard power supply		V	10	11	10	8	11	12	15	15	18	20	24	23
Type of supply fan	(3)	-	220-240/1/50											
No. of supply fans		-	Centrifugo DC											
Numero ventilatore mandata		-	1	1	2	2	2	2	2	2	3	3	3	3

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.
Airflow with free outlet (0 Pa static pressure)

(1) Entering exchanger water 7°C (temperature differential 5°C) - Ambient air 27°C D.B. / 19°C W.B.
(2) Entering exchanger water 45°C (temperature differential 5°C) - Ambient air 20°C
(3) CFG = centrifugal fan

Performance in heating and cooling mode when the environment and system conditions change

Refer to the selection software or to the "CFF AURA DC and AC performance tables" which can be downloaded at <https://world.clivet.it/>

AC Version CFFAC - CFFAU, bottom intake, 2-pipe

SIZE – CFF			1	2	3	4	5	6	7	8	9	10	11	12
High speed														
Airflow		m³/h	255	255	400	425	595	595	790	800	1190	1150	1300	1300
Cooling capacity	(1)	kW	1,65	2,25	2,65	3,05	3,85	4,2	4,65	5,35	6	6,75	7,35	8,25
Sensible capacity	(1)	kW	1,25	1,65	2,05	2,23	2,91	3,05	3,58	3,96	4,83	5,09	5,63	6,08
Water flow-rate	(1)	l/h	283	386	454	523	660	720	797	917	1029	1157	1260	1414
Water pressure drop	(1)	kPa	15,75	33,19	18,03	26,71	38,23	41,15	56,85	61,48	53,79	40,26	45,43	64,72
Heating capacity	(2)	kW	1,85	2,35	3,05	3,15	4,1	4,3	5,2	5,7	6,15	7,15	8,2	8,5
Water flow-rate	(2)	l/h	317	403	523	540	705	740	894	977	1054	1226	1406	1457
Water pressure drop	(2)	kPa	15,13	33,19	17,56	23,31	35,52	37,2	56,68	60,89	57,85	42,16	44,6	61,96
Total power input		W	35	40	47	47	51	51	91	91	123	110	123	118
Medium speed														
Airflow		m³/h	165	192	273	284	447	450	560	574	855	885	1088	1132
Cooling capacity	(1)	kW	1,22	1,85	2,02	2,26	3,19	3,38	3,8	4,25	5,03	5,8	6,51	7,52
Sensible capacity	(1)	kW	0,88	1,35	1,5	1,61	2,36	2,43	2,85	3,08	3,99	4,36	4,92	5,53
Water flow-rate	(1)	l/h	209	317	346	387	546	580	652	729	862	995	1116	1289
Water pressure drop	(1)	kPa	9,33	22,37	11,18	15,66	27,11	27,07	40,02	41,44	36,96	29,2	37,06	55,03
Heating capacity	(2)	kW	1,29	1,87	2,24	2,28	3,3	3,43	3,95	4,36	5,1	5,81	7,09	7,6
Water flow-rate	(2)	l/h	222	320	384	392	568	590	679	747	877	996	1216	1302
Water pressure drop	(2)	kPa	8,22	22,37	10,28	12,57	24,83	24,5	37,31	37,73	38,53	28,68	34,09	47,46
Total power input		W	17	24	26	26	32	32	54	54	98	89	109	104
Low speed														
Airflow		m³/h	142	139	180	184	319	319	392	404	555	591	782	836
Cooling capacity	(1)	kW	1,09	1,4	1,4	1,58	2,46	2,48	2,92	3,31	3,71	4,24	5,15	5,87
Sensible capacity	(1)	kW	0,78	1	1,02	1,08	1,77	1,73	2,09	2,34	2,85	3,12	3,83	4,21
Water flow-rate	(1)	l/h	186	241	240	272	422	425	500	567	636	727	884	1007
Water pressure drop	(1)	kPa	7,37	4,64	5,48	8,42	16,96	15,71	25,31	26,62	21,16	16,15	23,29	34,88
Heating capacity	(2)	kW	1,13	1,42	1,52	1,6	2,48	2,52	3	3,31	3,8	4,3	5,46	5,9
Water flow-rate	(2)	l/h	194	244	260	275	427	433	516	569	654	740	937	1015
Water pressure drop	(2)	kPa	6,64	4,64	5,43	6,11	14,91	13,75	23,25	21,79	21,1	14,66	19,98	28,84
Total power input		W	14	15	14	14	19	19	34	35	68	64	83	82
Standard power supply		V	220-240/1/50											
Type of supply fan	(3)	-	CFG											
No. of supply fans	-	-	1	1	2	2	2	2	2	2	3	3	3	3

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.
Airflow with free outlet (0 Pa static pressure)

(1) Entering exchanger water 7°C (temperature differential 5°C) - Ambient air 27°C D.B. / 19°C W.B.
(2) Entering exchanger water 45°C (temperature differential 5°C) - Ambient air 20°C
(3) CFG = centrifugal fan

Performance in heating and cooling mode when the environment and system conditions change

Refer to the selection software or to the "CFF AURA DC and AC performance tables" which can be downloaded at <https://world.clivet.it/>

General technical data

AC Version CFFAC, front intake, 2-pipe

SIZE – CFF			1	2	3	4	5	6	7	8	9	10	11	12
High speed														
Airflow		m³/h	245	245	380	380	580	580	780	780	1050	1050	1100	1050
Cooling capacity	(1)	kW	1,58	2,16	2,51	2,72	3,75	4,09	4,59	5,21	5,29	6,16	6,22	6,66
Sensible capacity	(1)	kW	1,20	1,58	1,94	2,00	2,83	2,97	3,53	3,86	4,26	4,65	4,76	4,91
Water flow-rate	(1)	l/h	270	370	430	470	640	700	790	890	910	1060	1070	1140
Water pressure drop	(1)	kPa	15,10	31,90	17,10	23,90	37,30	40,10	56,10	59,90	47,50	36,80	38,40	52,30
Heating capacity	(2)	kW	1,77	2,26	2,80	2,81	3,99	4,19	5,13	5,33	5,42	6,53	6,94	6,86
Water flow-rate	(2)	l/h	300	390	480	480	680	720	880	910	930	1,120	1,190	1,180
Water pressure drop	(2)	kPa	15,00	31,90	16,60	22,50	34,60	36,30	56,00	59,40	51,00	38,50	40,70	50,00
Total power input		W	35	40	47	47	51	51	91	92	124	117	118	110
Medium speed														
Airflow		m³/h	160	180	245	250	435	430	550	560	750	800	920	910
Cooling capacity	(1)	kW	1,17	1,78	1,92	2,02	3,10	3,29	3,75	4,14	4,43	5,29	5,50	6,07
Sensible capacity	(1)	kW	0,84	1,29	1,42	1,44	2,30	2,37	2,81	2,86	3,52	3,98	4,16	4,46
Water flow-rate	(1)	l/h	200	310	330	350	530	560	640	710	760	910	940	1040
Water pressure drop	(1)	kPa	9,00	23,20	11,70	14,00	26,40	26,40	39,50	40,40	32,60	26,70	31,40	44,50
Heating capacity	(2)	kW	1,24	1,79	2,01	2,04	3,21	3,34	3,90	4,25	4,50	5,30	6,00	6,13
Water flow-rate	(2)	l/h	210	310	340	350	550	570	670	730	770	910	1,030	1,050
Water pressure drop	(2)	kPa	7,90	21,50	9,80	12,60	24,20	25,40	36,80	36,80	34,00	26,20	28,80	38,30
Total power input		W	17	24	26	26	32	32	54	54	98	93	93	81
Low speed														
Airflow		m³/h	135	130	140	160	310	310	380	390	490	520	660	670
Cooling capacity	(1)	kW	1,04	1,35	1,32	1,41	2,40	2,41	2,88	3,22	3,27	3,87	4,36	4,74
Sensible capacity	(1)	kW	0,75	0,96	0,96	1,02	1,72	1,68	2,06	2,10	2,51	2,85	3,24	3,40
Water flow-rate	(1)	l/h	180	230	230	240	410	410	490	550	560	660	750	810
Water pressure drop	(1)	kPa	7,10	14,10	5,20	7,50	16,50	15,30	25,00	26,00	18,70	14,80	19,70	28,20
Heating capacity	(2)	kW	1,08	1,36	1,38	1,43	2,41	2,45	2,96	3,23	3,35	3,92	4,62	4,76
Water flow-rate	(2)	l/h	190	230	240	250	410	420	510	550	570	670	790	820
Water pressure drop	(2)	kPa	6,40	14,10	5,20	6,10	15,40	14,50	23,00	21,20	18,60	13,40	17,00	23,30
Total power input		W	14	15	14	15	19	19	34	35	68	66	65	70
Standard power supply		V	220-240/1/50											
Type of supply fan	(3)	-	Centrifugo AC											
No. of supply fans		-	1	1	2	2	2	2	2	2	3	3	3	3

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It includes the Commission delegated Regulation (EU) No 2016/2281, also known as
Ecodesign Lot21.
Airflow with free outlet (0 Pa static pressure)

(1) Entering exchanger water 7°C (temperature differential 5°C) - Ambient air 27°C D.B.
/ 19°C W.B.
(2) Entering exchanger water 45°C (temperature differential 5°C) - Ambient air 20°C
(3) CFG = centrifugal fan

Performance in heating and cooling mode when the environment and system conditions change

Refer to the selection software or to the "CFF AURA DC and AC performance tables" which can be downloaded at <https://world.clivet.it/>

DC Version CFFC - CFFU, bottom intake, 4-pipe (only on order)

SIZE			1	3	5	7	9	11
High speed								
Airflow		m³/h	255	425	595	800	1190	1300
Cooling capacity	(1)	kW	1,70	2,70	3,80	4,60	6,05	7,65
Sensible capacity	(1)	kW	1,30	1,90	2,80	3,50	4,80	5,90
Water flow-rate	(1)	l/h	290	460	650	790	1040	1310
Water pressure drop	(1)	kPa	18,16	16,97	39,17	56,18	53,66	48,07
Heating capacity	(2)	kW	1,40	2,30	2,88	3,35	4,60	7,50
Water flow-rate	(2)	l/h	120	200	250	290	390	640
Water pressure drop	(2)	kPa	10,74	28,16	55,37	69,57	132,32	71,63
Total power input		W	20	20	29	52	92	102
Medium speed								
Airflow		m³/h	206	280	461	595	887	969
Cooling capacity	(1)	kW	1,44	1,94	3,18	3,75	5,00	6,19
Sensible capacity	(1)	kW	1,07	1,30	2,30	2,75	3,88	4,60
Water flow-rate	(1)	l/h	250	330	550	640	860	1060
Water pressure drop	(1)	kPa	13,74	9,73	28,35	39,04	36,96	32,56
Heating capacity	(2)	kW	1,23	1,78	2,49	2,88	6,95	6,44
Water flow-rate	(2)	l/h	110	150	210	250	340	550
Water pressure drop	(2)	kPa	8,50	18,45	43,00	54,65	104,19	56,17
Total power input		W	14	11	17	28	46	22
Low speed								
Airflow		m³/h	134	158	324	417	564	661
Cooling capacity	(1)	kW	0,95	1,10	2,32	2,83	3,43	4,54
Sensible capacity	(1)	kW	0,64	0,70	1,61	2,01	2,53	3,30
Water flow-rate	(1)	l/h	160	190	400	490	590	780
Water pressure drop	(1)	kPa	7,50	3,51	16,91	23,84	19,07	18,32
Heating capacity	(2)	kW	0,95	1,22	2,00	2,36	3,02	5,22
Water flow-rate	(2)	l/h	80	100	170	200	260	450
Water pressure drop	(2)	kPa	5,49	10,08	29,20	38,21	63,73	37,44
Total power input		W	9	8	11	15	19	22
Standard power supply		V	220-240/1/50					
Type of supply fan	(3)	-	Centrifugo DC					
No. of supply fans		-	1	2	3			

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.
Airflow with free outlet (0 Pa static pressure)

(1) Entering exchanger water 7°C (temperature differential 5°C) - Ambient air 27°C D.B. / 19°C W.B.
(2) Entering exchanger water 65°C (temperature differential 10°C) - Ambient air 20°C
(3) CFG = centrifugal fan

Performance in heating and cooling mode when the environment and system conditions change

Refer to the selection software or to the "CFF AURA DC and AC performance tables" which can be downloaded at <https://world.clivet.it/>

General technical data

DC Version CFFC, front intake, 4-pipe (only on order)

SIZE			1	3	5	7	9	11
High speed								
Airflow		m³/h	245	380	580	780	1050	1150
Cooling capacity	(1)	kW	1,63	2,41	3,70	4,49	5,34	6,77
Sensible capacity	(1)	kW	1,25	1,70	2,73	3,41	4,24	5,22
Water flow-rate	(1)	l/h	280	410	630	770	920	1160
Water pressure drop	(1)	kPa	17,50	15,20	38,20	54,80	47,40	42,50
Heating capacity	(2)	kW	0,83	1,30	1,55	1,97	2,43	3,96
Water flow-rate	(2)	l/h	140	220	270	340	420	680
Water pressure drop	(2)	kPa	9,76	32,00	57,44	88,25	143,91	83,82
Total power input		W	20	21	30	52	99	105
Medium speed								
Airflow		m³/h	180	240	430	560	770	860
Cooling capacity	(1)	kW	1,38	1,73	3,10	3,66	4,41	6,19
Sensible capacity	(1)	kW	1,03	1,16	2,24	2,68	3,42	4,60
Water flow-rate	(1)	l/h	240	300	530	630	760	1060
Water pressure drop	(1)	kPa	13,20	8,70	27,60	38,10	32,60	32,56
Heating capacity	(2)	kW	0,82	1,18	1,33	1,67	2,10	3,83
Water flow-rate	(2)	l/h	140	200	230	290	360	660
Water pressure drop	(2)	kPa	9,52	27,24	43,71	65,76	111,84	78,77
Total power input		W	16	12	18	28	50	50
Low speed								
Airflow		m³/h	130	110	300	390	460	600
Cooling capacity	(1)	kW	0,91	0,99	2,26	2,76	3,02	4,02
Sensible capacity	(1)	kW	0,62	0,62	1,53	1,96	2,23	2,92
Water flow-rate	(1)	l/h	160	170	380	470	520	690
Water pressure drop	(1)	kPa	7,20	3,10	16,50	23,20	16,80	16,20
Heating capacity	(2)	kW	0,64	0,58	1,32	1,58	1,73	3,12
Water flow-rate	(2)	l/h	110	100	230	270	300	540
Water pressure drop	(2)	kPa	6,29	7,93	43,65	59,27	78,69	55,04
Total power input		W	11	8	12	15	20	23
Standard power supply		V	220-240/1/50					
Type of supply fan	(3)	-	Centrifugo DC					
No. of supply fans		-	1		2		3	

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Airflow with free outlet (0 Pa static pressure)

(1) Entering exchanger water 7°C (temperature differential 5°C) - Ambient air 27°C D.B. / 19°C W.B.
(2) Entering exchanger water 65°C (temperature differential 10°C) - Ambient air 20°C
(3) CFG = centrifugal fan

Performance in heating and cooling mode when the environment and system conditions change

Refer to the selection software or to the "CFF AURA DC and AC performance tables" which can be downloaded at <https://world.clivet.it/>

AC Version CFFAC - CFFAU, bottom intake, 4-pipe

SIZE – CFF			1	3	5	7	9	11
High speed								
Airflow		m ³ /h	255	425	595	800	1150	1300
Cooling capacity	(1)	kW	1,95	2,89	4,09	5,05	6,40	7,65
Sensible capacity	(1)	kW	1,50	2,05	2,94	3,80	4,90	5,85
Water flow-rate	(1)	l/h	330	500	700	870	1100	1310
Water pressure drop	(1)	kPa	27,47	21,38	47,70	71,09	63,05	50,47
Heating capacity	(2)	kW	0,99	1,38	1,73	2,02	2,59	4,40
Water flow-rate	(2)	l/h	170	240	300	350	440	760
Water pressure drop	(2)	kPa	13,28	35,78	69,44	91,92	159,32	100,73
Total power input		W	40	47	51	91	110	118
Medium speed								
Airflow		m ³ /h	192	284	430	574	885	1132
Cooling capacity	(1)	kW	1,60	2,05	3,35	4,05	5,59	7,00
Sensible capacity	(1)	kW	1,20	1,39	2,38	2,95	4,25	5,28
Water flow-rate	(1)	l/h	280	350	570	690	960	1200
Water pressure drop	(1)	kPa	19,63	11,95	33,04	47,81	48,47	43,72
Heating capacity	(2)	kW	0,90	1,28	1,49	1,71	2,30	4,06
Water flow-rate	(2)	l/h	160	220	260	300	400	700
Water pressure drop	(2)	kPa	11,30	31,27	53,45	68,51	130,72	88,06
Total power input		W	24	26	32	54	89	104
Low speed								
Airflow		m ³ /h	139	184	319	404	591	836
Cooling capacity	(1)	kW	1,15	1,25	2,35	3,20	4,00	5,50
Sensible capacity	(1)	kW	0,78	0,84	1,60	2,25	2,95	4,05
Water flow-rate	(1)	l/h	200	210	400	550	690	940
Water pressure drop	(1)	kPa	12,54	4,99	18,22	31,95	27,23	28,23
Heating capacity	(2)	kW	0,75	0,93	1,49	1,53	1,88	3,39
Water flow-rate	(2)	l/h	130	160	260	260	320	590
Water pressure drop	(2)	kPa	8,20	18,00	53,69	56,05	91,60	64,05
Total power input		W	15	14	19	35	64	82
Standard power supply	(3)	V	220-240/1/50					
Type of supply fan		-	Centrifugo					
No. of supply fans		-	1	2		3		

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Airflow with free outlet (0 Pa static pressure)

(1) Entering exchanger water 7°C (temperature differential 5°C) - Ambient air 27°C D.B. / 19°C W.B.
(2) Entering exchanger water 65°C (temperature differential 10°C) - Ambient air 20°C
(3) CFG = centrifugal fan

Performance in heating and cooling mode when the environment and system conditions change

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General technical data

AC Version CFFAC, front intake, 4-pipe (only on order)

SIZE – CFF			1	3	5	7	9	11
High speed								
Airflow		m3/h	245	380	580	780	1050	1050
Cooling capacity	(1)	kW	1,87	2,58	3,99	4,92	5,84	6,18
Sensible capacity	(1)	kW	1,44	1,83	2,87	3,71	4,47	4,73
Water flow-rate	(1)	l/h	0	0	1	1	1	1
Water pressure drop	(1)	kPa	26,40	19,10	46,50	69,30	57,60	40,80
Heating capacity	(2)	kW	1,06	1,43	1,87	2,16	2,66	3,90
Water flow-rate	(2)	l/h	0	0	0	0	0	1
Water pressure drop	(2)	kPa	15,03	38,02	79,83	102,83	168,95	81,02
Total power input		W	40	47	51	92	117	110
Medium speed								
Airflow		m3/h	180	250	430	560	800	910
Cooling capacity	(1)	kW	1,54	1,83	3,27	3,95	5,10	5,65
Sensible capacity	(1)	kW	1,15	1,24	2,32	2,88	3,88	4,26
Water flow-rate	(1)	l/h	0	0	1	1	1	1
Water pressure drop	(1)	kPa	18,00	10,70	32,20	46,60	44,30	35,30
Heating capacity	(2)	kW	0,68	0,92	1,21	1,40	1,73	2,52
Water flow-rate	(2)	l/h	0	0	0	0	0	0
Water pressure drop	(2)	kPa	6,88	17,57	37,53	47,93	78,59	38,13
Total power input		W	24	26	32	54	93	81
Low speed								
Airflow		m3/h	130	160	310	390	520	670
Cooling capacity	(1)	kW	1,10	1,12	2,29	3,12	3,65	4,44
Sensible capacity	(1)	kW	0,75	0,75	1,56	2,19	2,69	3,27
Water flow-rate	(1)	l/h	0	0	0	1	1	1
Water pressure drop	(1)	kPa	11,50	4,50	17,80	31,20	24,90	22,80
Heating capacity	(2)	kW	0,70	0,82	1,45	1,58	1,71	3,32
Water flow-rate	(2)	l/h	0	0	0	0	0	1
Water pressure drop	(2)	kPa	7,36	14,38	51,35	59,27	77,45	61,69
Total power input		W	15	15	19	35	66	70
Standard power supply	(3)	V	220-240/1/50					
Type of supply fan		-	Centrifugo DC					
No. of supply fans		-	1		2		3	

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.
Airflow with free outlet (0 Pa static pressure)

(1) Entering exchanger water 7°C (temperature differential 5°C) - Ambient air 27°C D.B. / 19°C W.B.
(2) Entering exchanger water 65°C (temperature differential 10°C) - Ambient air 20°C
(3) CFG = centrifugal fan

Performance in heating and cooling mode when the environment and system conditions change

Refer to the selection software or to the "CFF AURA DC and AC performance tables" which can be downloaded at <https://world.clivet.it/>

Electrical data

Version	Power supply	Size	MCA	MFA	IFM	
					KW	FLA
AC (CFFAC & CFFAU)	220-240V~50Hz	1-2	0,21	15	0,005	0,17
	220-240V~50Hz	3-4	0,30	15	0,008	0,24
	220-240V~50Hz	5-6	0,33	15	0,015	0,26
	220-240V~50Hz	7-8	0,55	15	0,037	0,44
	220-240V~50Hz	9-10	0,68	15	0,053	0,54
	220-240V~50Hz	11-12	0,68	15	0,053	0,54

MCA = Minimum circuit amps [A]

MFA = Maximum fuse amps [A]

IFM = Indoor fan motor

kW = Rated motor output [kW]

FLA = Full load current at max admissible conditions [A]

Maximum allowable voltage range variation between phases is 2%

Version	Power supply	Size	MCA	MFA	IFM	
					KW	FLA
DC (CFFC & CFFU)	220-240V~50Hz	1-2	0,48	15	0,03	0,38
	220-240V~50Hz	3-4	0,73	15	0,03	0,58
	220-240V~50Hz	5-6	0,73	15	0,03	0,58
	220-240V~50Hz	7-8	0,73	15	0,03	0,58
	220-240V~50Hz	9-10	1,56	15	0,06	1,25
	220-240V~50Hz	11-12	1,56	15	0,06	1,25

MCA = Minimum circuit amps [A]

MFA = Maximum fuse amps [A]

IFM = Indoor fan motor

kW = Rated motor output [kW]

FLA = Full load current at max admissible conditions [A]

Maximum allowable voltage range variation between phases is 2%

General technical data

Sound pressure levels

DC Version CFFC - CFFU, bottom intake, 2-pipe

SIZE		1	2	3	4	5	6	7	8	9	10	11	12
High speed	dB(A)	34	39	29	32	38	40	46	45	50	50	51	50
Medium speed	dB(A)	24	33	24	23	32	34	38	39	42	43	44	43
Low speed	dB(A)	21	25	18	19	23	30	30	30	31	31	33	33

DC Version CFFC, front intake, 2-pipe

SIZE		1	2	3	4	5	6	7	8	9	10	11	12
High speed	dB(A)	34	39	30	33	39	39	46	46	52	52	53	53
Medium speed	dB(A)	23	33	22	26	32	32	39	39	43	42	46	46
Low speed	dB(A)	21	26	14	17	24	24	30	30	32	33	36	36

AC Version CFFAC - CFFAU, bottom intake, 2-pipe

SIZE		1	2	3	4	5	6	7	8	9	10	11	12
High speed	dB(A)	35	42	34	34	39	40	48	47	50	50	51	50
Medium speed	dB(A)	24	35	24	25	32	35	39	40	43	44	46	45
Low speed	dB(A)	21	27	18	19	23	31	31	31	33	33	36	37

AC Version CFFAC, front intake, 2-pipe

SIZE		1	2	3	4	5	6	7	8	9	10	11	12
High speed	dB(A)	34	39	34	35	39	39	48	48	52	52	53	53
Medium speed	dB(A)	23	34	25	26	32	32	39	39	43	43	48	48
Low speed	dB(A)	21	26	19	20	24	24	30	30	33	34	39	39

DC Version CFFC - CFFU, bottom intake, 4-pipe

SIZE		1	3	5	7	9	11
High speed	dB(A)	39	32	40	45	50	50
Medium speed	dB(A)	33	23	34	39	43	43
Low speed	dB(A)	25	19	30	30	31	33

DC Version CFFC, front intake, 4-pipe

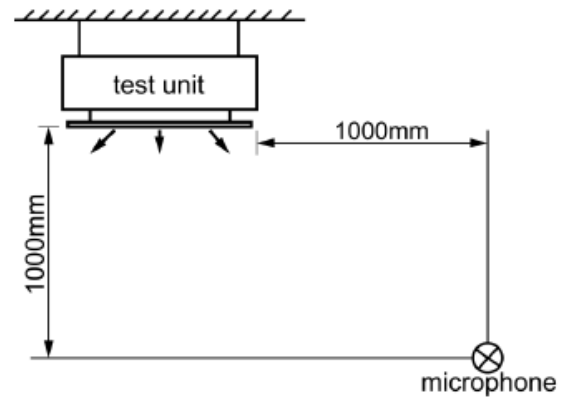
SIZE		1	3	5	7	9	11
High speed	dB(A)	39	33	39	46	52	53
Medium speed	dB(A)	33	26	32	39	42	46
Low speed	dB(A)	26	17	24	30	33	36

AC Version CFFAC - CFFAU, bottom intake, 4-pipe

SIZE		1	3	5	7	9	11
High speed	dB(A)	42	34	40	47	50	50
Medium speed	dB(A)	47	38	45	51	56	58
Low speed	dB(A)	39	32	37	43	46	50

AC Version CFFAC, front intake, 4-pipe

SIZE		1	3	5	7	9	11
High speed	dB(A)	39	35	39	48	52	52
Medium speed	dB(A)	47	39	45	52	57	61
Low speed	dB(A)	26	20	24	30	34	39



Sound power levels

DC Version CFFC - CFFU, bottom intake, 2-pipe

SIZE		1	2	3	4	5	6	7	8	9	10	11	12
High speed	dB(A)	47	52	43	46	52	52	59	29	64	62	63	63
Medium speed	dB(A)	36	46	37	37	44	45	51	51	56	56	58	57
Low speed	dB(A)	34	38	29	29	36	36	43	43	45	46	49	47

DC Version CFFC, front intake, 2-pipe

SIZE		1	2	3	4	5	6	7	8	9	10	11	12
High speed	dB(A)	47	52	43	46	52	52	59	59	65	65	66	65
Medium speed	dB(A)	36	46	35	38	45	45	52	52	57	56	59	59
Low speed	dB(A)	34	39	27	30	37	37	43	43	45	46	49	49

AC Version CFFAC - CFFAU, bottom intake, 2-pipe

SIZE		1	2	3	4	5	6	7	8	9	10	11	12
High speed	dB(A)	47	53	46	47	52	52	59	59	64	62	63	63
Medium speed	dB(A)	35	47	37	38	44	45	51	51	56	56	58	58
Low speed	dB(A)	34	39	31	32	36	37	43	43	45	46	50	50

AC Version CFFAC, front intake, 2-pipe

SIZE		1	2	3	4	5	6	7	8	9	10	11	12
High speed	dB(A)	47	52	47	48	52	52	61	61	95	65	66	66
Medium speed	dB(A)	36	47	38	39	45	45	52	52	57	57	61	61
Low speed	dB(A)	34	39	32	33	37	37	43	43	46	47	52	52

DC Version CFFC - CFFU, bottom intake, 4-pipe

SIZE		1	3	5	7	9	11
High speed	dB(A)	52	46	52	50	62	63
Medium speed	dB(A)	46	37	45	51	56	57
Low speed	dB(A)	38	29	36	43	46	47

DC Version CFFC, front intake, 4-pipe

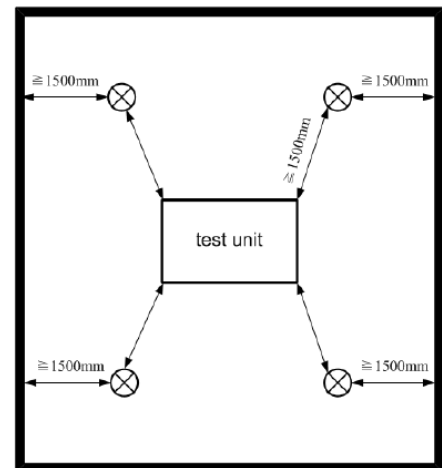
SIZE		1	3	5	7	9	11
High speed	dB(A)	52	46	52	59	65	65
Medium speed	dB(A)	46	38	45	52	56	59
Low speed	dB(A)	39	30	37	43	46	49

AC Version CFFAC - CFFAU, bottom intake, 4-pipe

SIZE		1	3	5	7	9	11
High speed	dB(A)	53	47	52	59	62	63
Medium speed	dB(A)	35	25	33	40	44	45
Low speed	dB(A)	27	19	24	31	33	37

AC Version CFFAC, front intake, 4-pipe

SIZE		1	3	5	7	9	11
High speed	dB(A)	52	48	52	61	65	65
Medium speed	dB(A)	34	26	32	39	43	48
Low speed	dB(A)	39	33	37	43	47	52

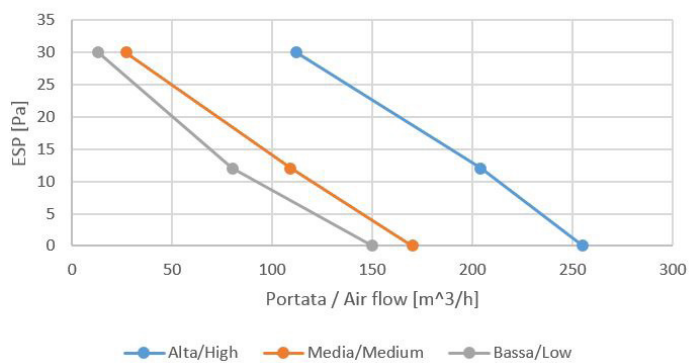


General technical data

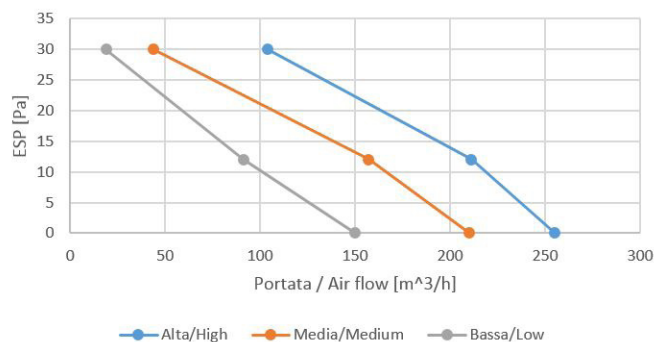
Fan curves for uncased models

DC CFFU Models

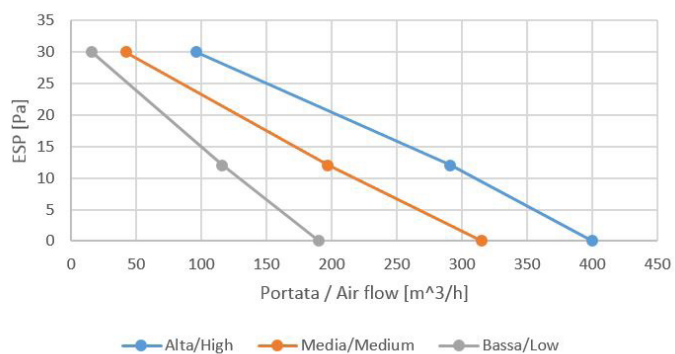
CFFU 1 CC2 R3



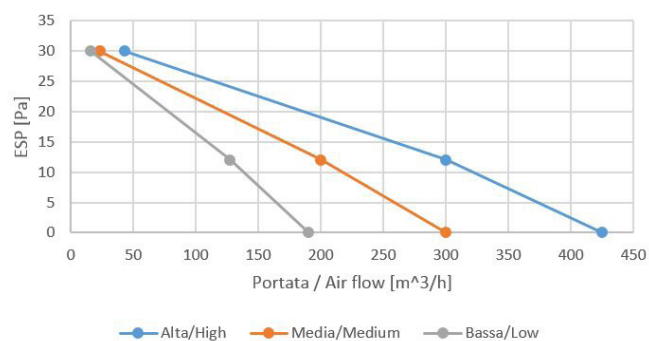
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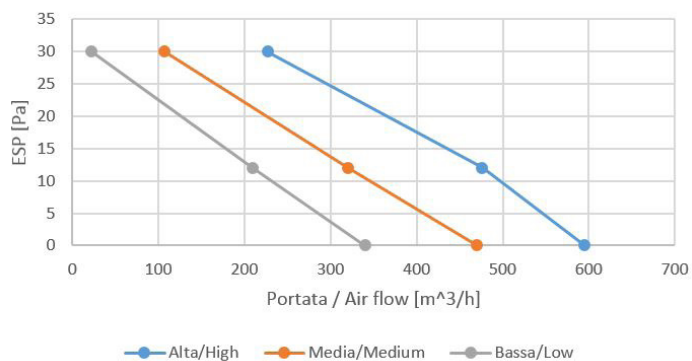
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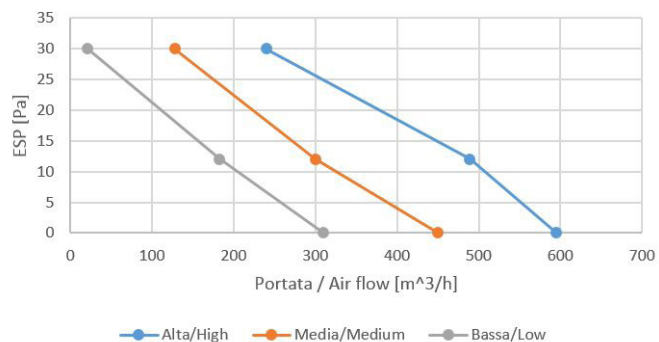
CFFU 4 CC2 R3



CFFU 5 CC2 R3



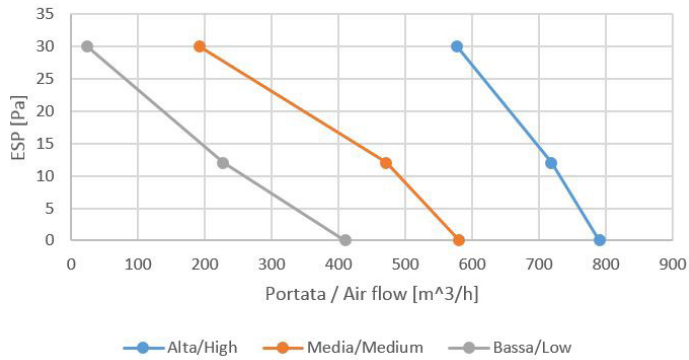
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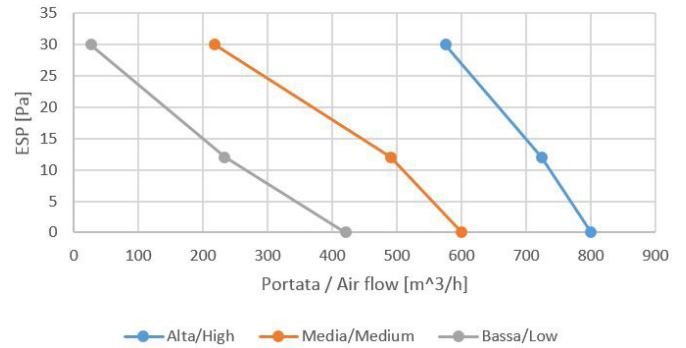
Fan curves for uncased models

DC CFFU Models

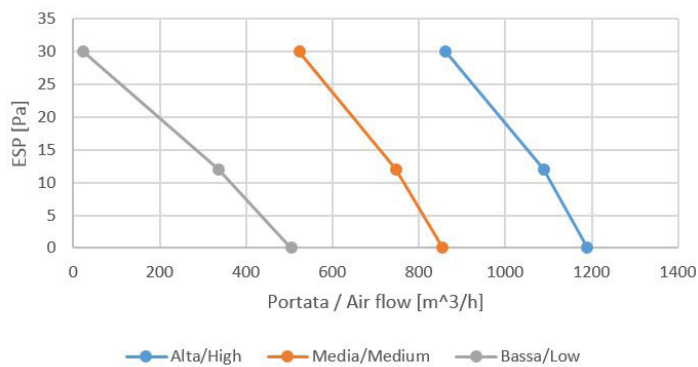
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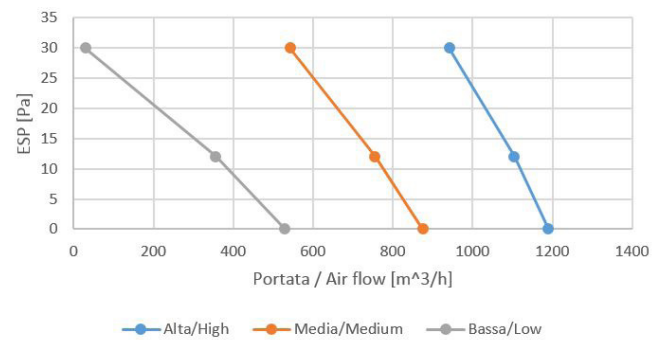
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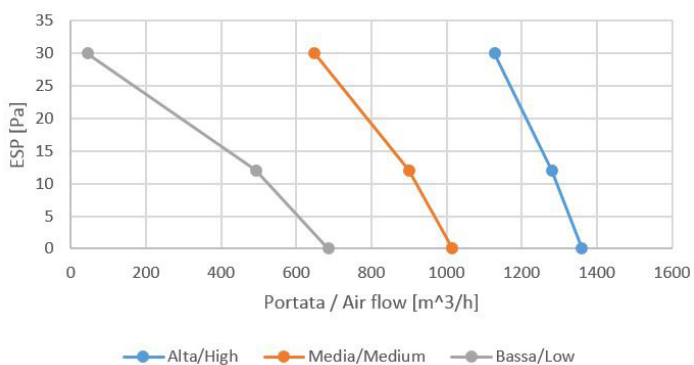
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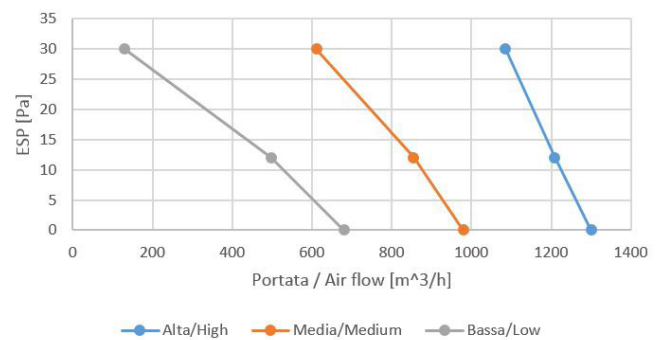
CFFU 10 CC2 R3



CFFU 11 CC2 R3



CFFU 12 CC2 R3

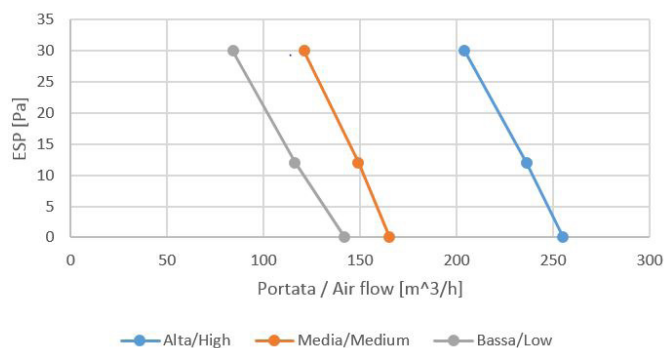


General technical data

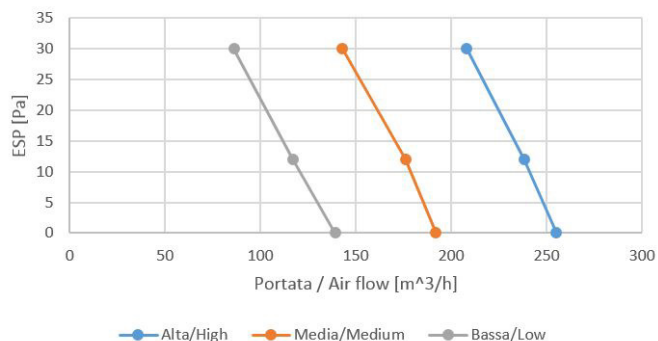
Fan curves for uncased models

AC CFFAU Models

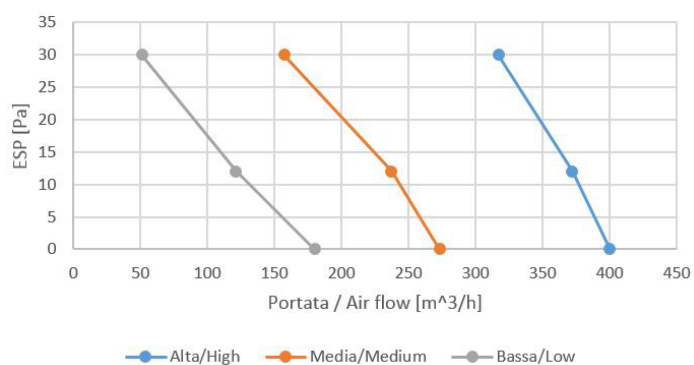
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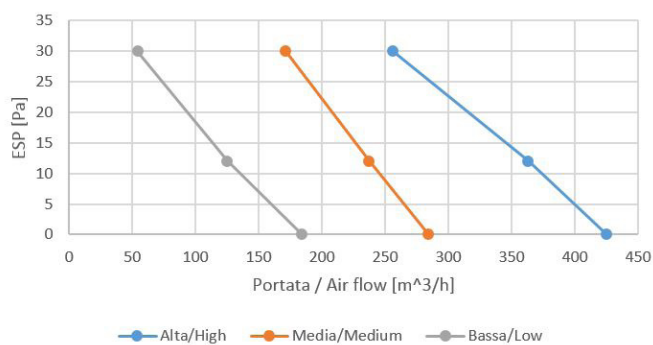
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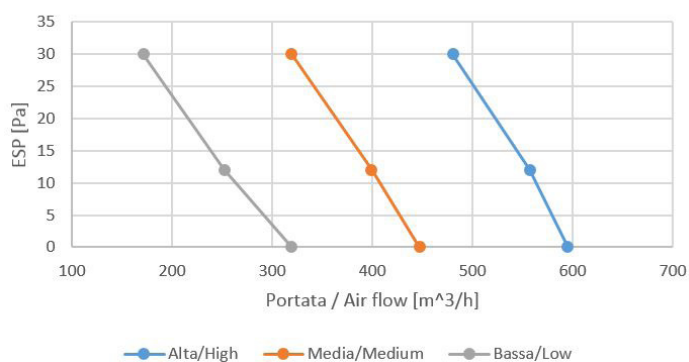
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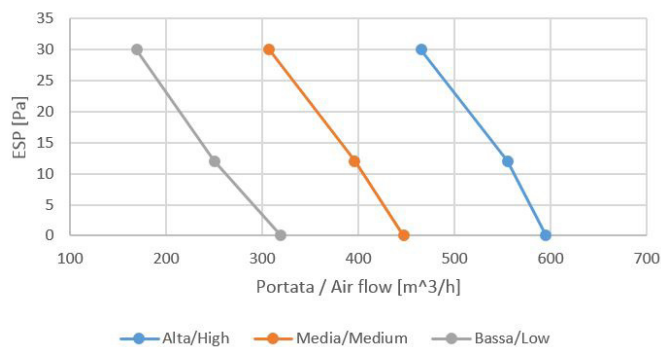
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CFFAU 5 CC2 R3



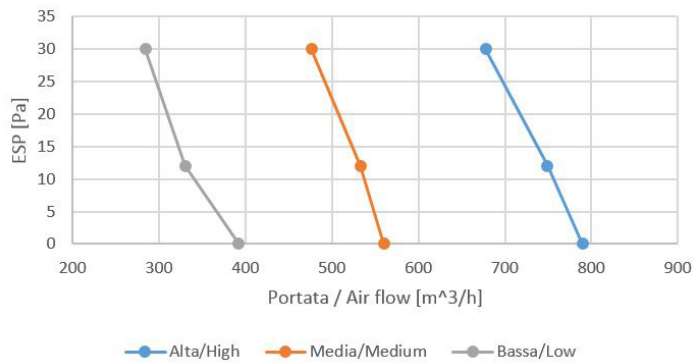
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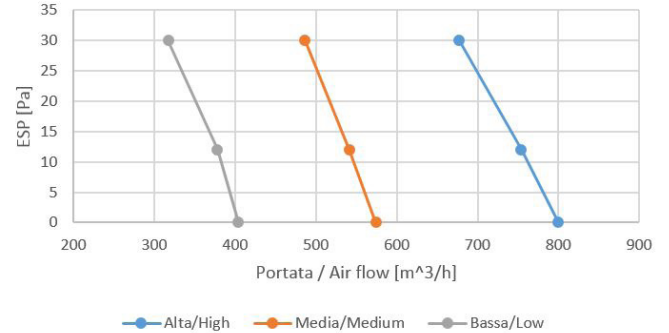
Fan curves for uncased models

AC CFFAU Models

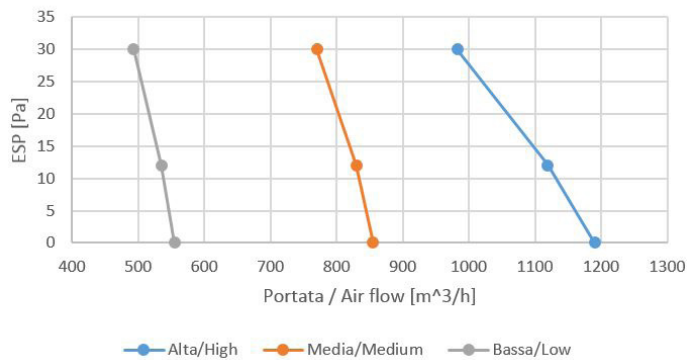
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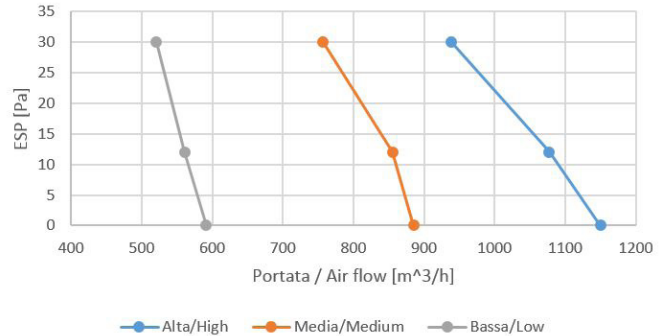
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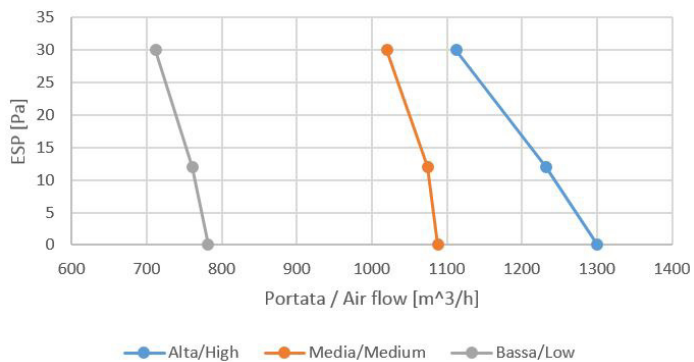
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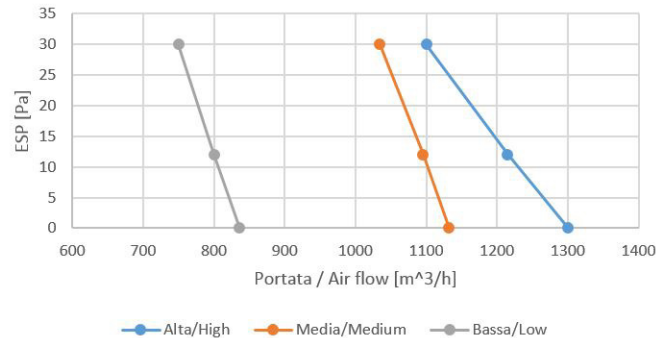
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CFFAU 11 CC2 R3

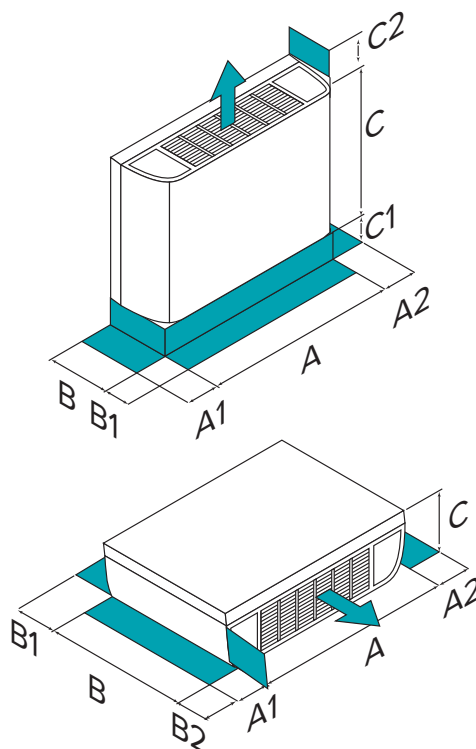


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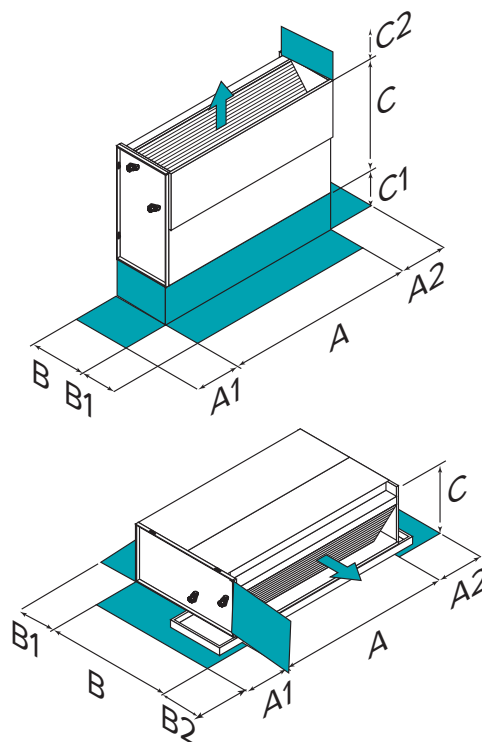
Dimensions

CFFC - Cased version



SIZE			1	2	3	4	5	6	7	8	9	10	11	12
CASED DIM.	A - Length	mm	790	790	1020	1020	1240	1240	1240	1240	1360	1360	1360	1360
	B - Width	mm	200	200	200	200	200	200	200	200	200	200	200	200
	C - Height	mm	495	495	495	495	495	495	495	495	495	495	591	591
VERTICAL INST.	A1	mm	150	150	150	150	150	150	150	150	150	150	150	150
	A2	mm	150	150	150	150	150	150	150	150	150	150	150	150
	B1	mm	-	-	-	-	-	-	-	-	-	-	-	-
	C2	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	C1 (only for R3 configurations)	mm	90	90	90	90	90	90	90	90	90	90	90	90
HORIZONTAL INST.	A1	mm	150	150	150	150	150	150	150	150	150	150	150	150
	A2	mm	150	150	150	150	150	150	150	150	150	150	150	150
	B1 (only for R3 configurations)	mm	90	90	90	90	90	90	90	90	90	90	90	90
	B2	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500

CFFU - Uncased version



GRANDEZZE			1	2	3	4	5	6	7	8	9	10	11	12
UNCASED DIM.	A - Length	mm	628	628	858	858	1078	1078	1078	1078	1198	1198	1198	1198
	B - Width	mm	200	200	200	200	200	200	200	200	200	200	200	200
	C - Height	mm	455	455	455	455	455	455	455	455	455	455	551	551
VERTICAL INST.	A1	mm	150	150	150	150	150	150	150	150	150	150	150	150
	A2	mm	150	150	150	150	150	150	150	150	150	150	150	150
	B1	mm	-	-	-	-	-	-	-	-	-	-	-	-
	C2	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	C1	mm	90	90	90	90	90	90	90	90	90	90	90	90
HORIZONTAL INST.	A1	mm	150	150	150	150	150	150	150	150	150	150	150	150
	A2	mm	150	150	150	150	150	150	150	150	150	150	150	150
	B1	mm	90	90	90	90	90	90	90	90	90	90	90	90
	B2	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500

Weight table (net weight in Kg)

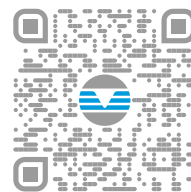
Size					1	2	3	4	5	6	7	8	9	10	11	12	
2-pipe	Cased	AC	Bottom intake	CFFAC CC2 R3	Kg	16,3	16,7	20	20,8	24	25,4	25,5	26,3	27,3	28,5	31,7	34
			Front intake	CFFAC CC2 RF	Kg	16,3	16,7	20	20,8	24	25,4	25,5	26,3	27,3	28,5	31,7	34
		DC	Bottom intake	CFFC CC2 R3	Kg	18	18,5	21,5	22	25,5	26,5	25,5	26,5	28,5	29,5	32,5	34,5
			Front intake	CFFC CC2 RF	Kg	18	18,5	21,5	22	25,5	26,5	25,5	26,5	28,5	29,5	32,5	34,5
	Uncased	AC	Bottom intake	CFFAU CC2 R3	Kg	11,6	12	13,9	14,8	17,3	18,2	17,9	18,8	20,5	21,7	24	25,2
		DC	Bottom intake	CFFU CC2 R3	Kg	11,8	12,1	13,9	14,8	17,3	18,2	17,3	18,2	19,6	20,8	23,1	24,3
4-pipe	Cased	AC	Bottom intake	CFFAC CC4 R3	Kg	17,2	-	21,3	-	25,9	-	26,8	-	29	-	34,5	-
			Front intake	CFFAC CC4 RF	Kg	17,2	-	21,3	-	25,9	-	26,8	-	29	-	34,5	-
		DC	Bottom intake	CFFC CC4 R3	Kg	19	-	22,5	-	27	-	27	-	30	-	35	-
			Front intake	CFFC CC4 RF	Kg	19	-	22,5	-	27	-	27	-	30	-	35	-
	Uncased	AC	Bottom intake	CFFAC CC4 R3	Kg	12,5	-	15,3	-	18,7	-	19,3	-	22,2	-	25,7	-
		DC	Bottom intake	CFFC CC4 R3	Kg	12,6	-	15,3	-	18,7	-	18,7	-	21,3	-	24,8	-



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