Cased and uncased water terminal unit

AURA

CFF - CFFA 1-12 RANGE

TECHNICAL BULLETIN

ErP

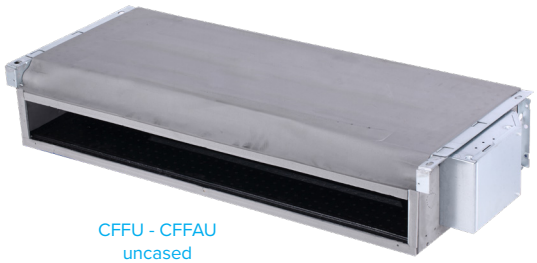
SIZE	1	2	3	4	5	6	7	8	9	10	11	12
COOLING CAPACITY DC kW	1,50	1,95	2,35	2,85	3,50	3,90	4,30	4,85	5,60	6,35	7,35	8,25
COOLING CAPACITY AC KW	1,65	2,25	2,65	3,05	3,85	4,20	4,65	5,35	6,00	6,75	7,35	8,25

Page

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

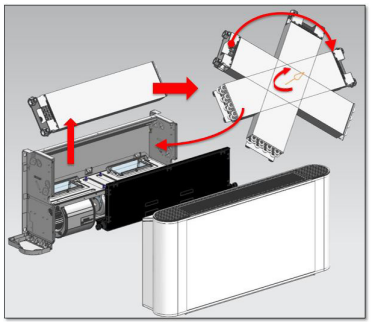


CFFU - CFFAU
uncased

Application flexibility

Due to the numerous configurations available, AURA flexibly and effectively fulfils different application requirements. The fan coil is available in a 2-pipe version for heat pump systems, in a cased version for exposed installation or without casing for uncased application, all with air return from the bottom (behind), for vertical or horizontal installation.

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, 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

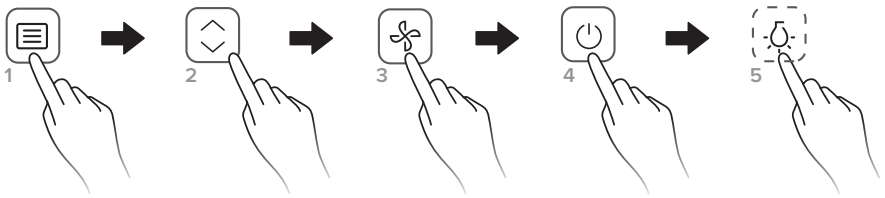
With a single terminal it is possible to heat up in winter, while in summer it allows you to cool down and dehumidify rooms.
AURA guarantees well-being all year round because it reaches the desired temperature quickly and does not take long to heat up the rooms.

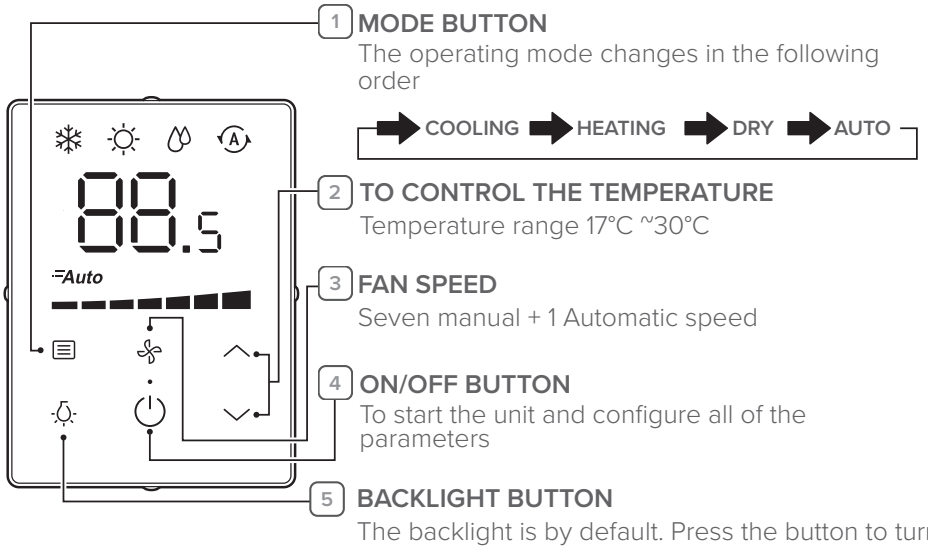
Functions and usability - DC Inverter AURA models: CFFC - CFFU

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

KJRP-75

The controller is supplied for installation on the unit (for cased versions) or 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.





1 MODE BUTTON
The operating mode changes in the following order

COOLING → HEATING → DRY → AUTO

2 TO CONTROL THE TEMPERATURE
Temperature range 17°C ~30°C

3 FAN SPEED
Seven manual + 1 Automatic speed

4 ON/OFF BUTTON
To start the unit and configure all of the parameters

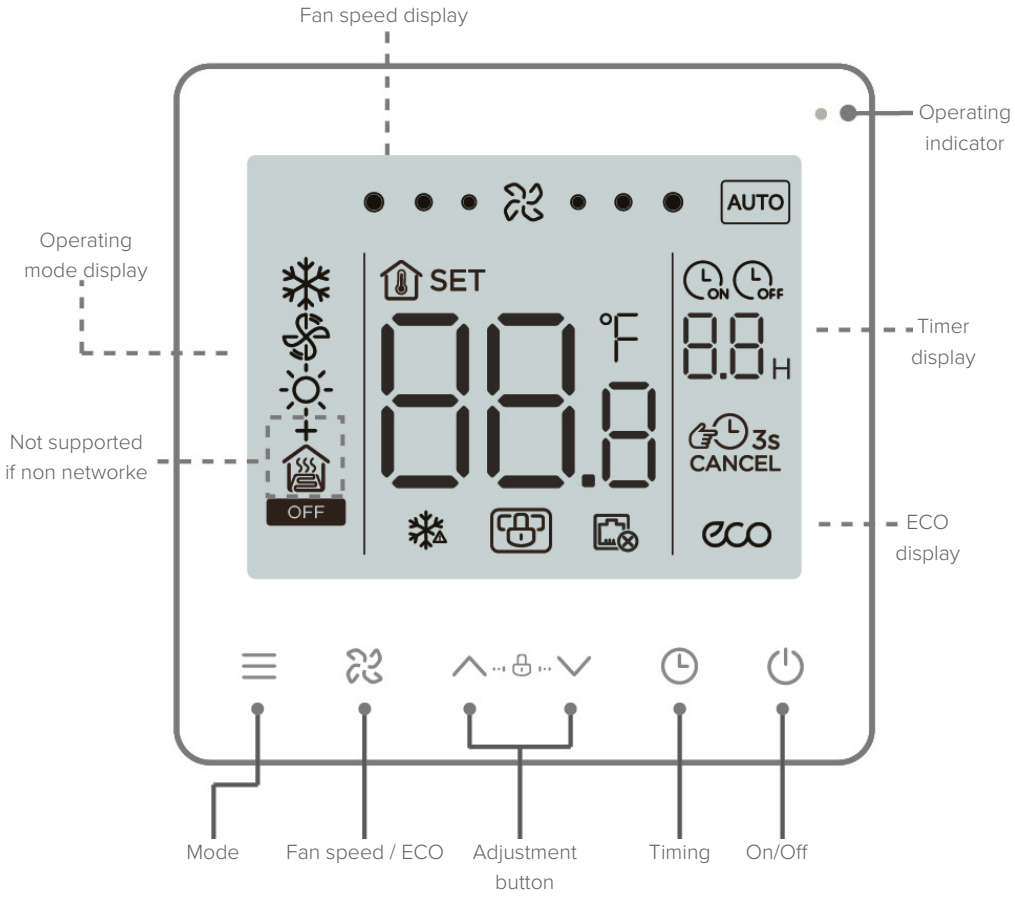
5 BACKLIGHT BUTTON
The backlight is by default. Press the button to turn it off.

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.

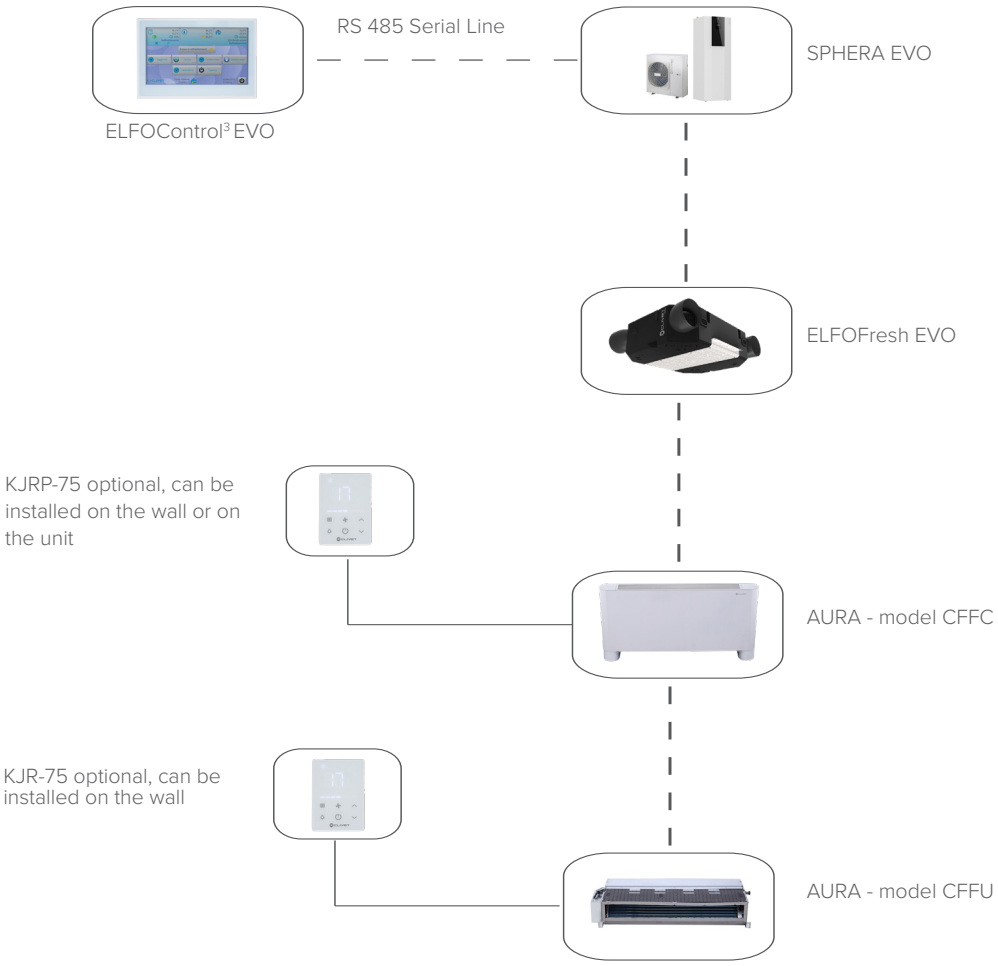
KJRP-86

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



Connectivity

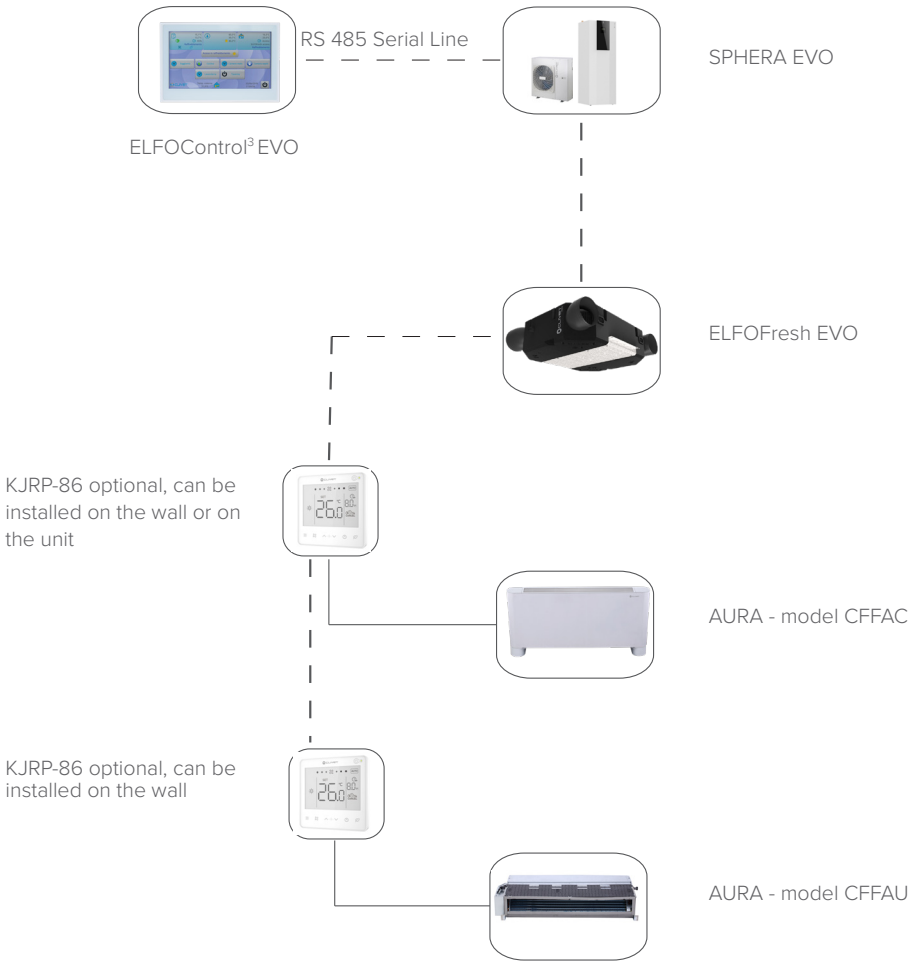
AURA, in the DC inverter models CFFC and CFFU, is compatible with ELFOControl[3] EVO, the centralised management system designed for 360° control of Clivet systems.
Furthermore, the unit has a Modbus port for control via an external home automation system, as well as an input for on/off potential-free 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.



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-pipe 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), motore con 3 velocità predefinite (CFFAC - CFFAU models).

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

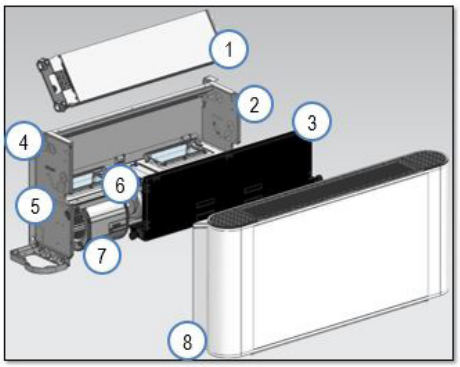
Condensate drain
The unit is standard supplied with an L-shaped drain tray to ensure that condensate can be drained when the unit is installed horizontally or vertically.

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.

Accessories
KJRP-75 - User interface for DC inverter models CFFC - CFFU
KJRP-86 - Interfaccia utente per modelli AC CFFAC - CFFAU
3V2X - Three-way valve kit for 2-pipe “on/off” system
BRVHX - Auxiliary condensate collection pan for vertical and horizontal installation
KDPX - Feet Kit
CDPX - Condensate drain pump
KJR-90DX - KJR-90D electronic room control for wall installation
KJR-150AX - Indoor units group controller
CCM30-BX - Centralized controller with case
CCM08X - BACNET Protocol converter (gateway)
LONGWX - LONWORKS Protocol converter (gateway)

Main components

1. Copper/aluminium exchanger, with hydrophilic coating
2. Electrical panel
3. L-Drain pan
4. 3/4’’ Water fittings
5. Condensate drain (Φ18,5mm)
6. Centrifugal fan
7. Washable filter (class G2)
8. Galvanised sheet metal casing



Versions and configurations

Version:
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

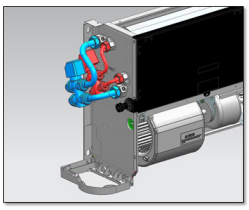
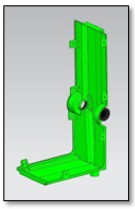
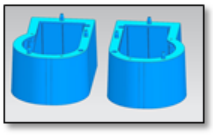
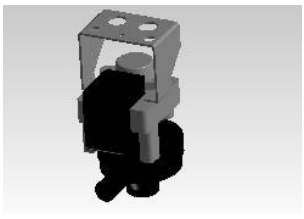
Fans type:
VEC - DC high efficiency fan (Standard for CFFC - CFFU models)
VENS - Three speed AC fan (Standard for CFFAC - AFFAU models)

Return:
R3 - Downward air return

Coil configuration:
CC2 - Coil configuration for 2-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

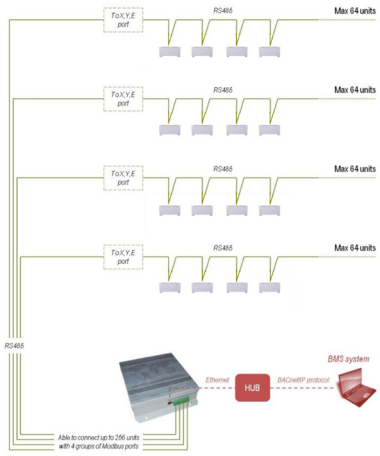
ACCESSORY		DESCRIPTION	
KJRP-75	User interface for DC inverter models	User interface DC inverter models for wall or on-board installation. Functions: • Backlit • Basic functions • 7 fan speeds + AUTO • Follow-me (temperature reading from interface)	
KJRP-86	User interface for AC models	User interface AC models for wall or on-board installation. Functions: • Backlit • Basic functions • 3 fan speeds + AUTO • Timer • Modbus Port	
3V2X	Three-way valve kit for 2-pipe type "on/off" system		
BRVHX	Auxiliary condensate collection tray ausiliaria for vertical/ horizontal installation		
KDPX	Plinth kit		
CDPX	Condensate drain pump		

ACCESSORY	DESCRIPTION
CCM08X	**BACNET Protocol converter (gateway) for DC inverter models**

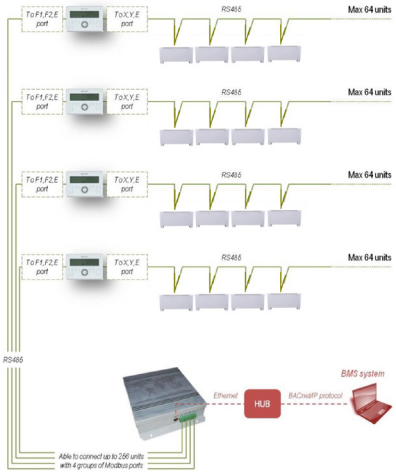
Each gateway can be connected to an fancoil unit's X,Y,E ports (up to 256 units), with built-in IP access.
It is also compatible with connections of up to four CCM30BX centralized controller through F1, F2, E ports.

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

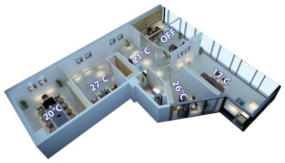
The CCM08X is fully compatible with a wide range of leading Building Management System

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

Accessories separately supplied

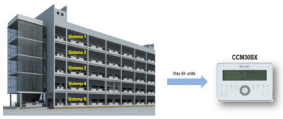
ACCESSORY		DESCRIPTION

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



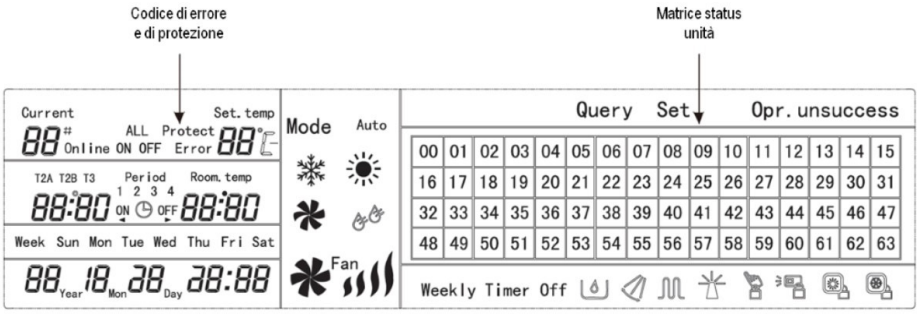
Single/unified control mode
Controllers can be toggled between unified and single control modes, to enable either unified control of all units or control of a specific unit. Operating mode feedback is used to ensure that all units are operating in the mode specified by the user.

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.



CCM30-BX — **Centralized controller with case for DC inverter models**

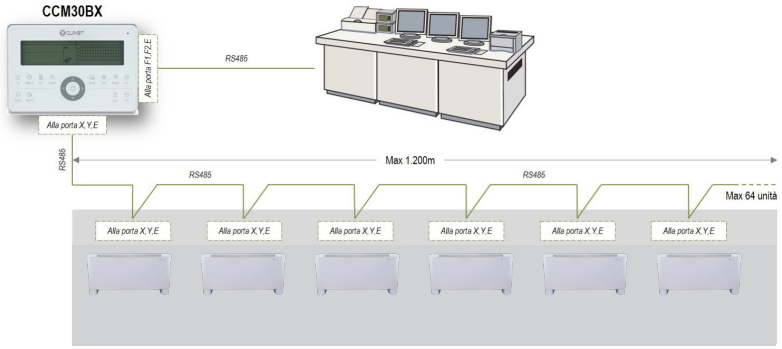
Fancoil units operating status display
Error and protection codes are shown directly on centralized controllers' displays, avoiding the need to access outdoor units' PCBs to obtain codes during a system event. A wide range of error and protection codes provide system status information to building management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



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)

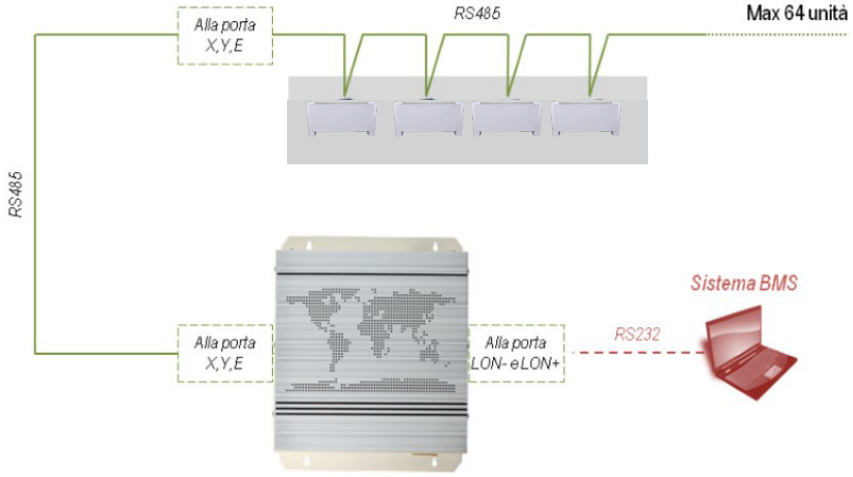
ACCESSORY		DESCRIPTION
CCM30-BX	**Centralized controller with case for DC inverter models**	**Main features** • Setting On/Off • Setting mode Cool/Heat/Auto/Dry/Fan • Setting temperature • Fan speed selection High/Medium/Low/Auto • Air swing function • 24h On/Off timer • Locking the controller buttons • 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

ACCESSORY		DESCRIPTION
LONGWX	LowWorks 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



DC inverter version - CFFC - CFFU

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	(3)	V	220-240/1/50											
Type of supply fan		-	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

AC Version - CFFAC - CFFAU

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	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	(4)	V	220-240/1/50											
Type of supply fan		-	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

Electrical data

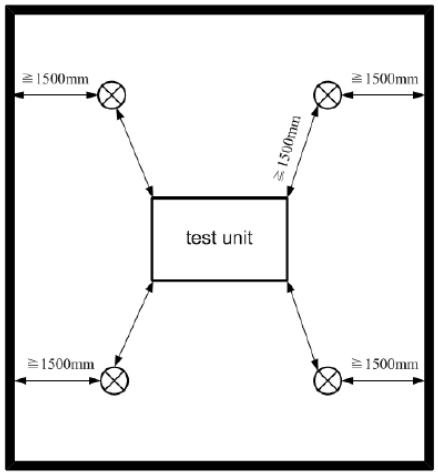
Airflow	255-1300m³/h
Power supply voltage	220-240V
Power supply phase	Monophase
Power supply frequency	50Hz - 60Hz
Circuit breaker / Fuse	15A / 15A
Communication wire between indoor unit and wired controller	Three core shielded wire

Sound levels - DC inverter models

SOUND POWER LEVELS - DC inverter models

SIZE	1	2	3	4	5	6	7	8	9	10	11	12
H/M/L	47/36/34	52/46/38	43/37/29	46/37/29	52/44/36	52/45/36	59/51/43	59/51/43	64/56/45	62/56/46	63/58/49	63/57/47

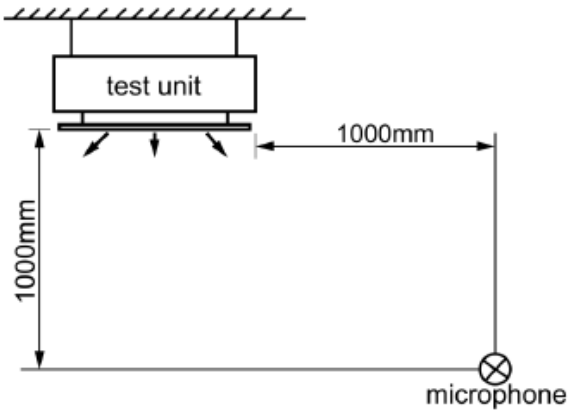
H=High speed
M= Medium speed
L=Low speed



SOUND PRESSURE LEVELS - DC inverter models

SIZE	1	2	3	4	5	6	7	8	9	10	11	12
H/M/L	34/24/21	39/33/25	29/24/18	32/23/19	38/32/23	40/34/30	46/38/30	45/39/30	50/42/31	50/43/31	51/44/33	50/43/33

H=High speed
M= Medium speed
L=Low speed



Electrical data

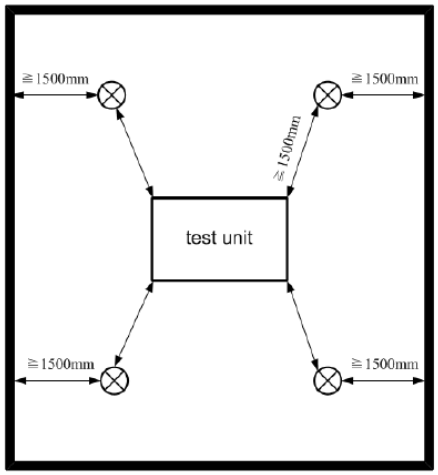
Airflow	255-1300m³/h
Power supply voltage	220-240V
Power supply phase	Monophase
Power supply frequency	50Hz - 60Hz
Circuit breaker / Fuse	15A / 15A
Communication wire between indoor unit and wired controller	Three core shielded wire

Sound levels - AC models

SOUND POWER LEVELS - Ac models

SIZE	1	2	3	4	5	6	7	8	9	10	11	12
(H/M/L)	47/35/34	53/47/39	46/37/31	47/38/32	52/44/36	52/45/37	59/51/43	59/51/43	64/56/45	62/56/46	63/58/50	63/58/50

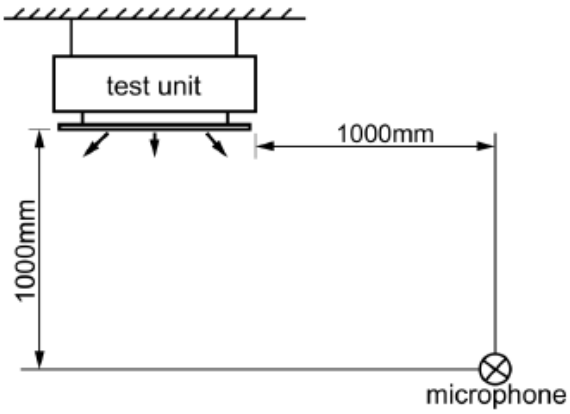
H=High speed
M= Medium speed
L=Low speed



SOUND PRESSURE LEVELS - AC models

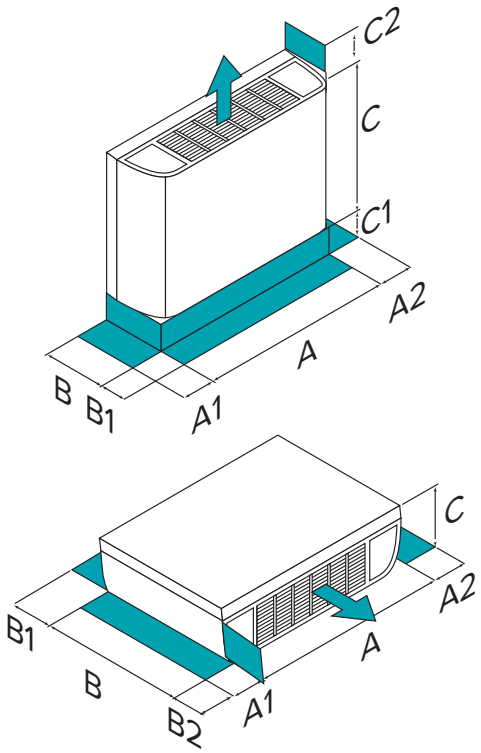
SIZE	1	2	3	4	5	6	7	8	9	10	11	12
(H/M/L)	35/24/21	42/35/27	34/24/18	34/25/19	39/32/23	40/35/31	48/39/31	47/40/31	50/43/33	50/44/33	51/46/36	50/45/37

H=High speed
M= Medium speed
L=Low speed



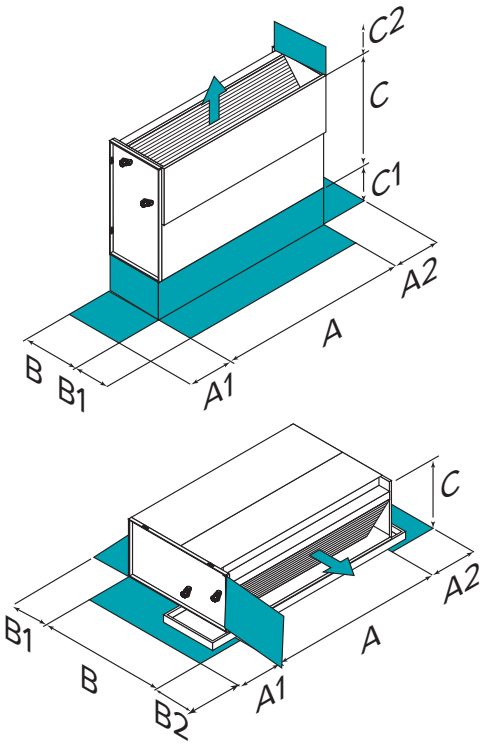
Dimensions

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
	Operating weight	kg	18	18,5	21,5	22	25,5	26,5	25,5	26,5	28,5	29,5	32,5	34,5
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

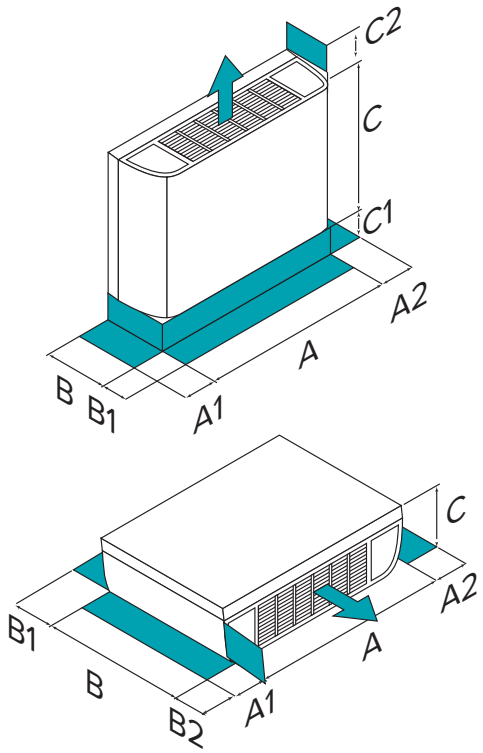
CFFU - Uncased version



SIZE			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	455	455	455	455	455	455	455	455	455	455	551	551
	C - Height	mm	200	200	200	200	200	200	200	200	200	200	200	200
	Operating weight	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
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

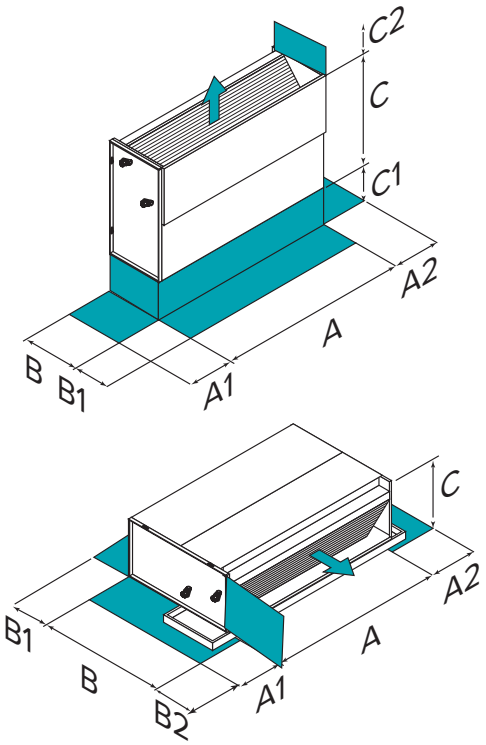
Dimensions

CFFAC - 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
	Operating weight	kg	18	18,5	21,5	22	25,5	26,5	25,5	26,5	28,5	29,5	32,5	34,5
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

CFFAU - Uncased version



SIZE			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	455	455	455	455	455	455	455	455	455	455	551	551
	C - Height	mm	200	200	200	200	200	200	200	200	200	200	200	200
	Operating weight	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
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

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CLIVET SPA
Via Camp Lonc 25, Z.I. Villapaiera
32032 Feltre (BL) - Italy
Tel. +39 0439 3131 - Fax +39 0439 313300
info@clivet.it

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