

2 pipes 4 way Cassette Fan Coil Unit



Unit Description

CCA series 2 pipes 4 way cassette fan coil units are terminals of a hydronic system for installation in false ceilings. They can be used with chilled or hot water to form an air conditioning system.

The air flow range: 200 - 1700cfm.

The total cooling capacity range: 2.0 - 15.3KW in the standard configuration.

Unit Composition

Air grille-module(cassette panel assembly)

Aesthetic panel design, in ABS material with high mechanical characteristics and resistance to ageing.

With synthetic washable and removable air filter, motor-drive louvers.

Unit body casing

Made of galvanized steel sheet metal, with pre-formed expanded polystyrene air passages suitable shaped to allow passage of air, thickness enough for thermal and acoustical insulation.

Heat exchanger

The high efficiency coils, made from 3/8" copper tubes and high exchange surface area aluminium hydrophilic fins, are 100% tested against leaks with dried air at 30 bar (3 MPa).

With 3/4" pipe connections and air bleed vent.

Condensate drain pan

In thermoforming high density expanded polystyrene, covered with a vacuum forming polyvinyl chloride, fitted with a condensates draining pump and a safety float.

Condensate drain pump

The drain pump with 700 mm of maximum head, with no return valve, integral with the unit and wired to the electronic board.

Float switch is connected with the electronic board to control the condensate and alarm level.

Fan motor assembly

The centrifugal balanced fan blower with 3-speed motor.

Electrical box

Composed of a box outside the unit which contains the electronic control board whose connection terminals are easily accessible.

Microprocessor control system

- wireless remote control
- wired wall pad control
- motorized valve control (AC on/off, normal closed)
- auto restart
- operation mode control
- auto-diagnose, protections and error code display
- room air temp. sensor & coil temp. sensor
- Rs485 communication (optional PCB board)
- Controller:
 - * wireless remote controller - standard
 - * wired wall pad - optional

Alternative control system:

With independent pump control system, the unit to be controlled by fan coil thermostat or 3-speed switch.



remote controller
(standard)



wired wall pad
(optional)

2 pipes 4 way Cassette Fan Coil Unit - Specification

cfm			CCA-06	CCA-09	CCA-12	CCA-15	CCA-18	CCA-24	CCA-30	CCA-36	CCA-48	CCA-60
			200	300	400	500	600	800	1000	1200	1400	1700
Total cooling capacity	H	kW	2.00	2.70	3.7	4.5	5.6	7.0	9.1	10.8	12.6	15.3
	M		1.80	2.30	3.1	4.2	4.3	5.7	7.9	8.6	10.0	11.7
	L		1.60	1.80	2.6	3.0	3.6	4.5	6.0	6.8	8.0	9.3
Sensible cooling capacity	H	kW	1.5	2.0	2.8	3.5	4.4	5.6	7.3	8.6	9.9	12.0
	M		1.3	1.7	2.3	3.2	3.3	4.5	6.4	7.0	8.2	9.36
	L		1.1	1.3	1.9	2.3	2.7	3.5	4.6	5.3	6.4	7.2
Chilled water flow rate		l/h	345	470	640	345	970	1260	1710	1920	2160	2640
Chilled water pressure drop		kPa	7	9	11	16	18	19	17	19	22	36
Heating capacity	H	kW	2.8	4.2	5.6	7.0	8.4	11.2	13.9	16.7	19.5	23.7
	M		2.5	3.4	4.5	6.3	6.5	8.5	12.0	12.6	15.6	17.5
	L		2.0	2.7	4.0	5.0	5.2	6.7	9.0	10.2	12.0	13.8
Air flow	H	m³/h	340	510	680	850	1020	1360	1700	2040	2380	2890
	M		280	390	520	640	790	1030	1290	1500	1800	2100
	L		180	260	350	430	520	690	860	1030	1200	1600
Sound pressure (1m)	H	dB(A)	37	39	41	43	45	46	47	50	52	57
	M		35	37	37	39	37	38	39	45	46	52
	L		29	31	30	32	34	37	36	37	39	48
Power input		W	39	52	62	76	96	132	152	189	220	330
Power supply			220V/1Phase/50Hz									
Fan blower type			Centrifugal fans				Centrifugal fans		Centrifugal fans			Centrifugal fans
Fan Diameter		mm	φ315				φ315		φ315			φ315
Fan number		nr.	1				1		1			1
Coil rows number		nr.	2.00				2.00		2.00			2.00
Coil max. working pressure		MPa	1.60				1.60		1.60			1.60
Coil tube diameter		inch	3/8"				3/8"		3/8"			3/8"
Body dimension (L*W*H)		mm	580x580x250				705x705x290		832x832x290			960x960x290
Panel dimension (L*W)		mm	680x680x30				830x830x30		980x980x30			1140x1140x30
Package dimension(L*W*H)		mm	755x755x370				895x895x370		1045x1045x370			1155x1155x340
Net Weight/Gross Weight		kg	20/24.5				25/30.5		34/41			52/57
Water inlet/outlet pipe		inch	ZG3/4"									
Condensate discharge		inch	26									

Cooling:

Inlet air temp.: DB+27°C/WB+19°C

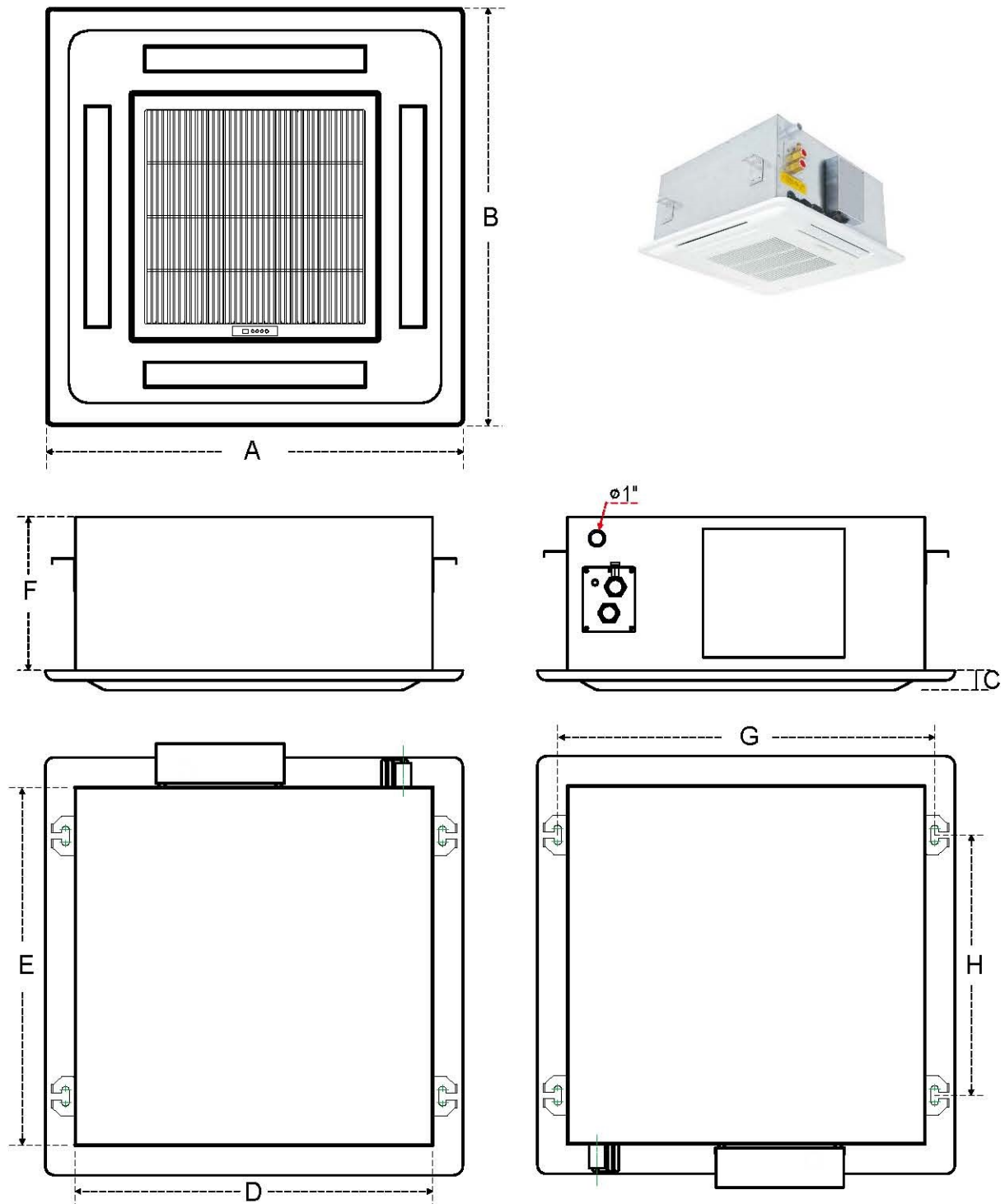
Inlet/outlet water temp. +7°C/+12°C

Heating:

Inlet air temp.: +21°C

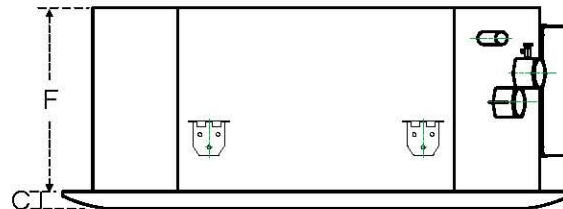
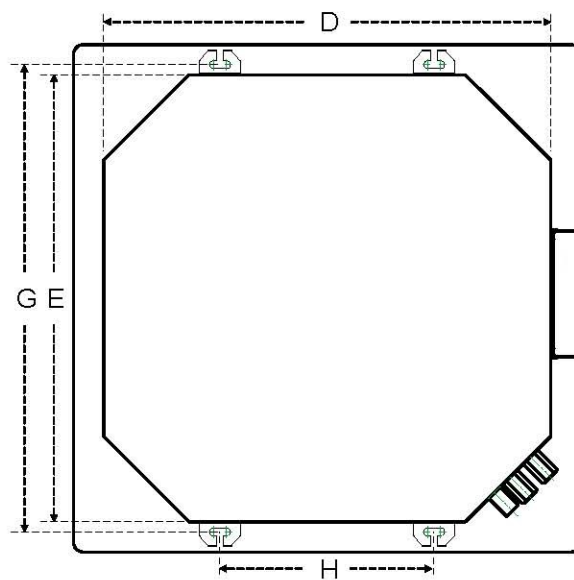
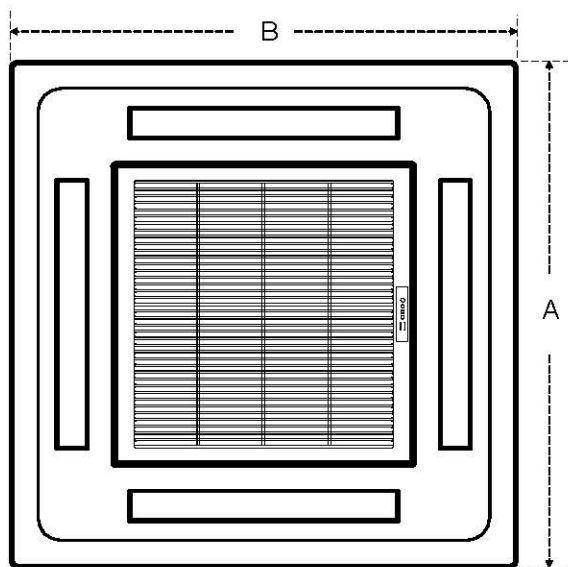
Inlet water temp. +60°C; Same water flow rate as for the cooling;

2 pipes 4 way Cassette Fan Coil Unit - Dimensions



Model	A	B	C	D	E	F	G	H	
CCA-06,09,12	680	680	30	580	580	250	614	424	mm

2 pipes 4 way Cassette Fan Coil Unit - Dimensions



Model	A	B	C	D	E	F	G	H	
CCA-15, 18, 24	830	830	30	705	705	290	737	338	mm
CCA-30, 36, 48	830	830	30	832	832	290	864	416	mm
CCA-60	1140	1140	30	960	960	290	995	488	mm