



42DC SERIES

Ducted Chilled Water Fan Coil Unit With District Cooling Application



MS ISO 9001 REG. NO. AR 0239

MAXIMIZING PERFORMANCE, ENERGY SAVINGS & COMFORT

PRODUCT FEATURES



If fan coil terminals are the answer to your job requirements, you can't afford to pass over Carrier's versatile and extensive range of fan coil units.

With Carrier's 42DC series fan coil units, you can select furred-in or cabinet style, in capacities from 1000 to 2000 cfm. Units are ideal for installations in hotels, models, apartments and other multi-room buildings.

Carrier room fan coil terminals provide unsurpassed year round comfort, with high cooling performance. Carrier 42DC terminal requires very little space and is easy to install. Piping, drain and wiring connections are readily accessible to save installation time and field labor expense.

Forget about expensive ductwork, forget about complex system controls, forget the aggravation and choose Carrier's easy to install room fan coil units – in pipe systems. Opt for quiet. Carrier room fan coil units operate at exceptionally low sound levels. Generous amount of insulation absorbs operating sound and rugged, rigid construction ensures vibration free operation at all fan speeds.

Carrier room fan coil units are economical. Three speed fans deliver just the right amount of conditioned air for your comfort needs at any load. And each individual unit can be shut off when not in use. Shaded-pole motors deliver peak operating efficiency. In choosing Carrier units, you can match your application with a wide range of custom-designed options and accessories, including electric heat.

When you go for Carrier 42DC, the advantages to owner, installer and the room occupants are too great to ignore.

Carrier 42DC fan coils give you design and equipment location flexibility

- Wide range of popular capacities, 1000 – 20000 cfm
- Up to 8 sizes
- Cabinet or furred-in units
- Choose from numerous control systems
- Select 4 row coils
- Accommodates 2 pipe systems
- Fully insulated/low fan speed means quiet operation
- Draw outside air for odor dilution
- Attractive unit design blends with room decoration
- Uses only minimal space

Select Carrier fan coils for easy, low cost installation

- Easy wiring, piping connections
- Mounting holes, slots speed hanging
- Requires no expensive ductwork
- Ideal for new construction or renovation

Save operating costs with Carrier fan coils

- Individual unit shut-off when not in use
- Efficient, 3 speed centrifugal fans
- Shaded pole motors
- High efficiency heat transfer surface

Carrier fan coils save you service and maintenance expense

- Nationwide Carrier service
- Insulated drain pan
- Easy access to components
- Rugged construction
- Factory leak test
- Cleanable or throwaway filters
- Long life, heavy duty bearings

TECHNICAL DATA (cont')



42DC Furred-in Ceiling FCU with Plenum 4 Rows at nominal CFM

PERFORMANCE			MODEL: 42DC					
			010	012	014	016	018	020
Air Volume	High	CFM	996	1299	1422	1894	1909	2007
		L/s	970	613	671	894	901	947
Cooling Capacity (Fluid)*		kW	9.3	12.3	13.7	17.6	17.9	19.4
		Btu/hr	31733	41969	46746	60054	61077	66196
Motor nominal power output		W	200	120x2	120x2	200x2	200x2	200x2
Motor nominal current		Amp	2.39	1.15x2	1.15x2	2.39x2	2.39x2	2.39x2
Noise *	High	dB(A)	47.6	47.6	47.6	54.3	51.8	52.1
	Med		45.5	44.5	44.8	52.8	49.5	49.4
	Low		40.6	42.4	41.0	47.6	45.3	45.2
Water Flow		L/s	0.4	0.5	0.6	0.8	0.8	0.8
Water Drop		kPa	23.8	41.5	29.8	50.5	25.2	30.8
Fan Type			Centrifugal Forward-curved blades					
Motor Type			Permanent Split Capacitor					
Coil	Row		4					
	Working Pressure		1.6 MPa					
Connections	In-Out		7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
	Condensing Drain		7/8"					
Net Weight		Kg	66	76	79	81	88	100

NOTE:

* Based on motor at high speed, standard air and dry coil operation, external static pressure of 50Pa; 5.6°C water temperature rise; entering air temperature 27°C DB; 19°C WB; Entering water temperature 7.2°C.

** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

TECHNICAL DATA (cont')



42DCD Δ T Furred-in Ceiling FCU with Plenum **4 Rows at nominal CFM**

PERFORMANCE			MODEL: 42DCD					
			010	012	014	016	018	020
Air Volume	High	CFM	996	1299	1422	1894	1909	2007
		L/s	970	613	671	894	901	947
Cooling Capacity (Fluid)*		kW	9.3	12.3	13.7	17.6	17.9	19.4
		Btu/hr	31733	41969	46746	60054	61077	66196
Motor nominal power output		W	200	120x2	120x2	200x2	200x2	200x2
Motor nominal current		Amp	2.39	1.15x2	1.15x2	2.39x2	2.39x2	2.39x2
Noise *	High	dB(A)	47.6	47.6	47.6	54.3	51.8	52.1
	Med		45.5	44.5	44.8	52.8	49.5	49.4
	Low		40.6	42.4	41.0	47.6	45.3	45.2
Water Flow		L/s	0.4	0.5	0.6	0.8	0.8	0.8
Water Drop		kPa	23.8	41.5	29.8	50.5	25.2	30.8
Fan Type			Centrifugal Forward-curved blades					
Motor Type			Permanent Split Capacitor					
Coil	Row		4					
	Working Pressure		1.6 MPa					
Connections	In-Out		7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
	Condensing Drain		7/8"					
Net Weight		Kg	66	76	79	81	88	100

NOTE:

* Based on motor at high speed, standard air and dry coil operation, external static pressure of 50Pa; 5.6°C water temperature rise; entering air temperature 27°C DB; 19°C WB; Entering water temperature 7.2°C.

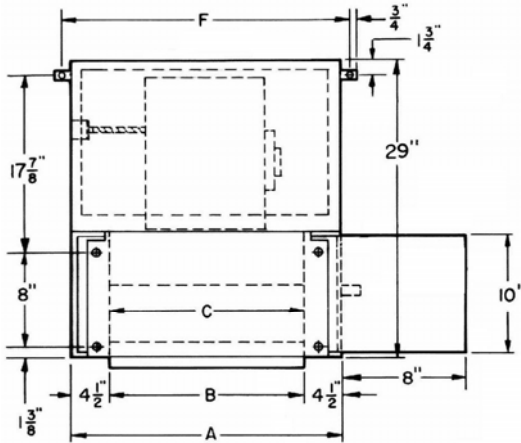
** Sound measurement in accordance with Standard JIS8616-2006 (1.5m below the unit bottom).

UNIT DIMENSIONS AND WEIGHT (cont')

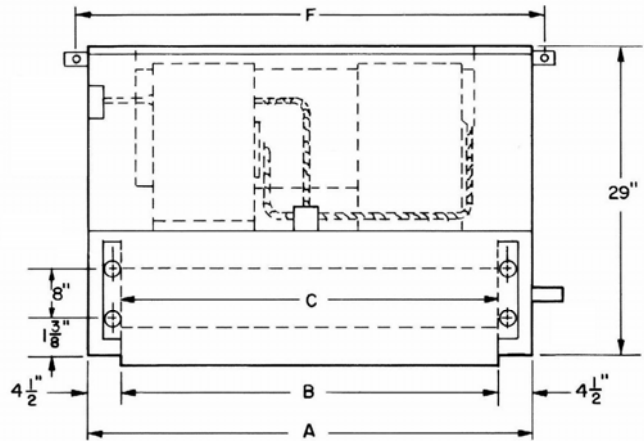


Turn to the Experts.™

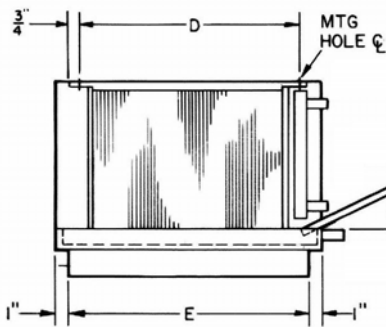
42DC/DCD Furred-in ceiling FCU with Plenum



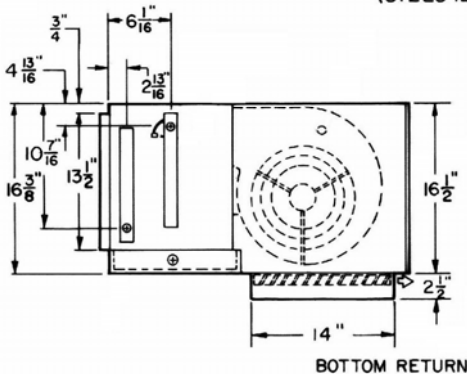
TOP VIEW
(SIZES 06-10)



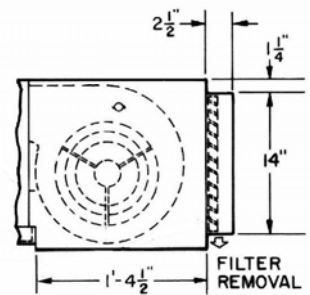
TOP VIEW
DOUBLE MOTOR MODEL
(SIZES 12-20)



FRONT VIEW



SIDE VIEW



SIDE VIEW

UNIT SIZE 42DC/DCD	DIMENSION (mm)						WEIGHT (kg)
	A	B	C	D	E	F	
10	813	584	610	660	762	870	68
12	940	711	737	787	889	997	76
14	1067	838	864	914	1016	1124	79
16	1194	965	991	1041	1143	1251	81
18	1321	1092	1178	1168	1270	1378	88
20	1422	1194	1219	1270	1372	1479	100