



42C 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 42 series fan coil units, you can select furred-in or cabinet style, in capacities from 300 to 1,400 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 42CET 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 42CET, the advantages to owner, installer and the room occupants are too great to ignore.

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

- Wide range of popular capacities, 300 – 1400 cfm
- Up to 8 sizes
- Cabinet or furred-in units
- Choose from numerous control systems
- Select 3 or 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



42CET Furred-in Ceiling FCU with Plenum 3 Rows at nominal CFM

PERFORMANCE			MODEL: 42CET							
			003	004	005	006	008	010	012	014
Air Volume	High	CFM	300	400	500	600	800	1000	1200	1400
		L/s	142	189	236	283	378	472	566	661
Cooling Capacity (Fluid)*		kW	2.79	3.48	3.80	4.79	6.68	7.71	8.90	10.95
		Btu/hr	9519	11874	12966	16343	22792	26307	30367	37361
Motor nominal power output		W	35	48	68	75	58w x 2	68w x 2	75w x 2	78w x 3
Motor nominal current		Amp	0.37	0.44	0.55	0.65	1.02	1.10	1.30	2.04
Noise *	High	dB(A)	39.0	40.0	41.3	41.2	41.8	43.9	43.7	44.9
	Med		36.0	38.2	36.7	40.0	39.3	41.5	42.7	41.7
	Low		33.4	34.7	36.1	37.8	36.2	39.8	40.8	40.1
Water Flow		L/s	0.120	0.150	0.163	0.206	0.287	0.331	0.383	0.471
Water Drop		kPa	22.5	11.9	14.8	23.8	23.6	31.9	14.9	23.7
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	Row	3								
	Working Pressure	1.6 MPa								
Connections	In-Out	¾" FPT								
	Condensing Drain	¾" MPT								
Net Weight		Kg	18.8	21.9	23.2	25.5	34.1	37.7	42.8	49.9

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')



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

PERFORMANCE			MODEL: 42CET							
			003	004	005	006	008	010	012	014
Air Volume	High	CFM	300	400	500	600	800	1000	1200	1400
		L/s	142	189	236	283	378	472	566	661
Cooling Capacity (Fluid)*		kW	2.87	3.95	4.28	4.87	7.25	8.44	10.54	12.81
		Btu/hr	9792	13477	14603	16616	24737	28797	35962	43708
Motor nominal power output		W	35	48	68	75	58w x 2	68w x 2	75w x 2	78w x 3
Motor nominal current		Amp	0.37	0.44	0.55	0.65	1.02	1.10	1.30	2.04
Noise *	High	dB(A)	39.0	40.0	41.3	41.2	41.8	43.9	43.7	44.9
	Med		36.0	38.2	36.7	40.0	39.3	41.5	42.7	41.7
	Low		33.4	34.7	36.1	37.8	36.2	39.8	40.8	40.1
Water Flow		L/s	0.124	0.168	0.183	0.209	0.312	0.365	0.454	0.551
Water Drop		kPa	9.8	18.1	22.2	7.4	17.9	25.3	23.8	37.3
Fan Type			Centrifugal Forward-curved blades							
Motor Type			Permanent Split Capacitor							
Coil	Row	4								
	Working Pressure	1.6 MPa								
Connections	In-Out	¾" FPT								
	Condensing Drain	¾" MPT								
Net Weight		Kg	19.9	23.1	24.5	26.5	35.9	39.7	45.1	52.4

NOTE:

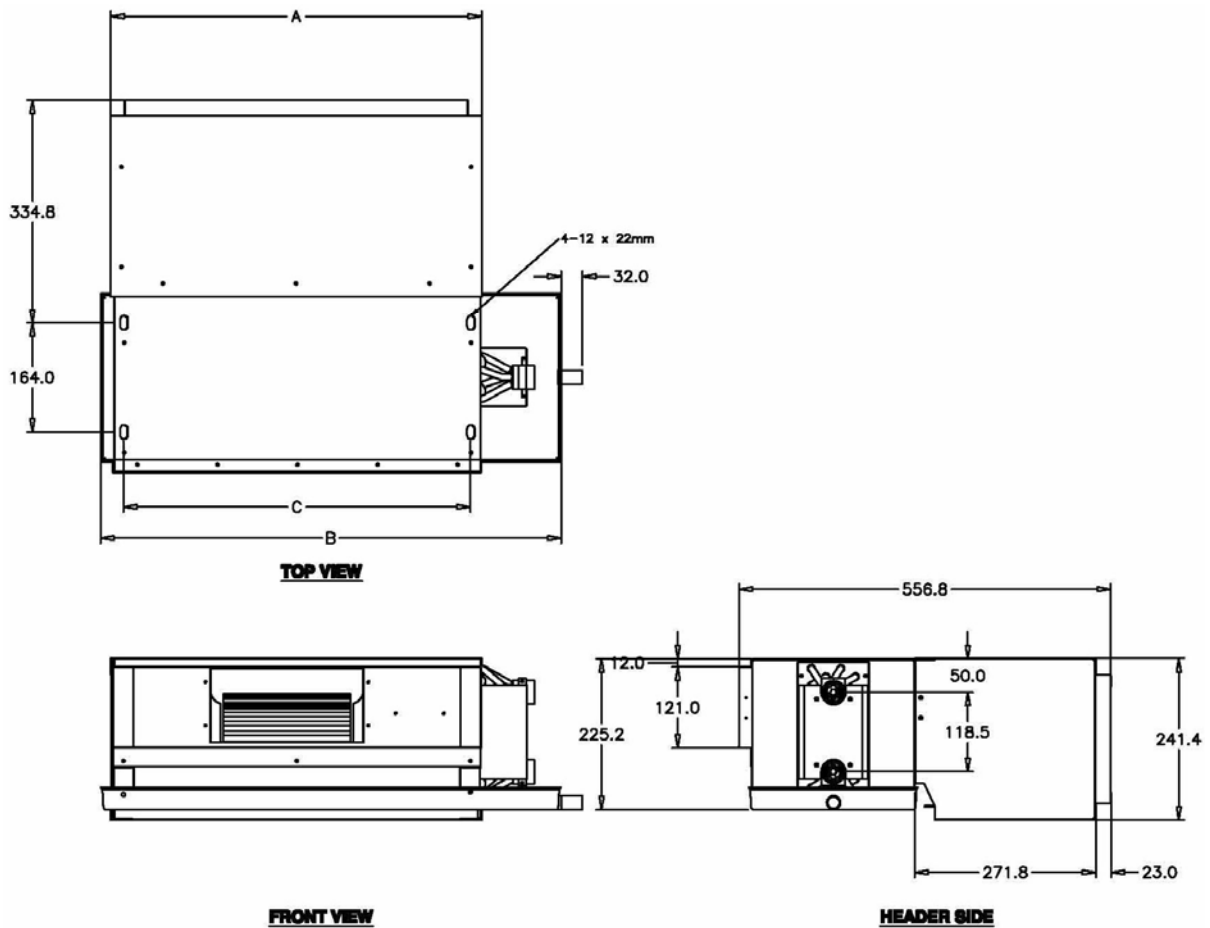
* Based on motor at high speed, standard air and dry coil operation, external static pressure of 50Pa; 5.6°C water temperature rise; entering air temperature 27°C DB; 19°C WB; Entering water temperature 7.2°C.

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

UNIT DIMENSIONS AND WEIGHT



42CET Furred-in Ceiling FCU with Plenum



MODEL	DIMENSIONS (mm)			WEIGHT (kg)	
	A	B	C	3 Rows	4 Rows
42CET 003	636	770	600	18.8	19.9
004	756	890	720	21.9	23.1
005	836	970	800	23.2	24.5
006	956	1090	920	25.5	26.5
008	1276	1410	1240	34.1	35.9
010	1396	1530	1360	37.7	39.7
012	1636	1770	1600	42.8	45.1
014	1876	2010	1840	49.9	52.4