



42CT/CTL

42CT SERIES [300 to 1400 CFM]

Ducted Chilled Water Fan Coil Unit for
Standard Chiller and
District Cooling Application



MS ISO 9001 REG. NO. AR 0239



ABOUT CARRIER

CARRIER: A WORLD LEADER IN HEATING, AIR-CONDITIONING AND REFRIGERATION SOLUTIONS.

MAKING THE WORLD A BETTER PLACE TO LIVE, WORK AND PLAY

Built on Willis Carrier’s invention of modern air conditioning in 1902, Carrier is the world leader in heating, air-conditioning and refrigeration solutions. We constantly build upon our history of proven innovation with new products and services that improve global comfort and efficiency.

ABOUT CARRIER INTERNATIONAL SDN BHD (CISB)

Carrier established its first foothold in Malaysia in 1959 when Carrier International (Malaysia) Ltd was formed as a distributor for Carrier air-conditioning equipment and components. The company was subsequently renamed as Carrier International Sdn Bhd (CISB). Today, CISB is one of the largest manufacturers of HVAC products in South-East Asia with products ranges setting the standard for performance, energy efficiency and sustainability.

With state of the art manufacturing technologies, the CISB invests heavily in product design/ development with dedicated engineering team and in house testing laboratories to carry out continuous development in thermal performance and air flow. The factory is ISO 9001:2015 certified which is a guarantee for the quality of our product offering and services provided. The factory also complies with EH&S regulations and takes a responsible approach to environment, health and safety.

As one of the market leader in HVAC industries, our products are manufactured with stringent sourcing, manufacturing and quality process that meets Carrier global QA/QC standard and control.

ABOUT 42CT FAN COIL UNITS

42CT series fan coil units are manufactured in Carrier Malaysia facility under Carrier Corporation USA. These units are produced and designed with latest technology. 42CT/CTL(4Rows) single skin ducted units are EUROVENT CERTIFIED and all other units performance is rated in accordance to EUROVENT standards. Refer below Eurovent website link for details: <http://www.eurovent-certification.com>

COMPUTER SELECTION

We have made available a computer program to finalize your selections. Please contact your Carrier representative for a computer selection based on your “Quick Selection” plus the design parameters of your application.



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PRODUCT FEATURES

42CT-/CTL 4 Row Ducted Unit are Eurovent Certified

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 42CT series fan coil units, you can select furred-in style, in capacities from 300 to 1,400 cfm. Units are ideal for installations in residential, hotels, motels, apartments, offices, hospitals, schools and other multi-room buildings.

Carrier room fan coil terminals provide unsurpassed year round comfort, with high cooling performance. Carrier 42 series 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. Permanent Split Capacitor motors deliver peak operating efficiency. In choosing Carrier units, you can match your application with a wide range of custom-designed options and accessories. When you go for Carrier 42 series, the advantages to owner, installer and the room occupants are too great to ignore.

Carrier 42CT series fan coils give you design and equipment location flexibility

- Wide range of popular capacities, 300 – 1400 cfm
- Available up to 9 sizes.
- Furred-in units
- Select 4 row coils (42CT-/CTL), 3 row coils (Non-Eurovent)
- Accommodates 2 pipe systems
- Top panel insulated and low fan speed means quiet operation
- Draw outside air for odor dilution
- 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

- Higher efficiency & reliability: Electronic Commutated Motor (42CT-/CTL) option
- Individual unit shut-off when not in use
- Efficient, 3 speed centrifugal fans
- Permanent Split Capacitor motors
- High efficiency heat transfer surface

Carrier fan coils save your service and maintenance expense

- Nationwide Carrier service
- Insulated drain pan
- Easy access to components
- Rugged construction
- Factory leak test for coil
- Cleanable Nylon filters
- Long life, heavy duty bearings
- Quick clip filter removal for rear side access
- Threaded in/ out – water connection



ISO 9001 Certificate



Eurovent Certificate



IQ Net Certificate

MODEL NUMBER NOMENCLATURE

MODEL 42CT/CTL (AC Motor)

4 2 C T - 0 3 4 - - - 7 0 1 2 5

42 Series
Fan Coil Unit

Model
CT — Furred-in Ceiling
Model with Plenum

- — Standard Application
L — District Cooling Application

Unit Size (Airflow, cfm)
03 — 300
04 — 400
05 — 500
06 — 600
07 — 700
08 — 800
10 — 1000
12 — 1200
14 — 1400

Coil
3 — 3 Row Coil
4 — 4 Row Coil

CISB Code
5 — Factory Code + Standard Packing

Motor
2 — Standard (AC Motor)

Filter Options
1 — Standard Nylon Filter

Development Series
0 — 42CT/CTL (AC & BLDC motor)

Electrical Characteristics
7 — 220/240V-1PH-50Hz


Piping Handling
- — Left Hand connection
R — Right Hand Connection
N — Right Hand Water Piping with Same End Connection
K — Left Hand Water Piping with Same End Connection

Heater Options
- — No Heater
D — 1.2 kW Heater
E — 1.5 kW Heater
F — 1.8 kW Heater
H — 2.2 kW Heater
J — 2.4 kW Heater
K — 3.0 kW Heater
L — 3.6 kW Heater
M — 4.4 kW Heater

Drain Pan
- — Standard Drain Pan
S — Stainless Steel Drain Pan

NEW SERIES: 42CT/CTL EXPLODED VIEW & MAIN FEATURES

No	Components
1	Top Plenum
2	Blower
3	Motor
4	Fan Deck
5	Bottom Plenum
6	Insulation Strip
7	Tube Sheet
8	Header Support
9	Control Box
10	Drain Pan
11	Top Panel

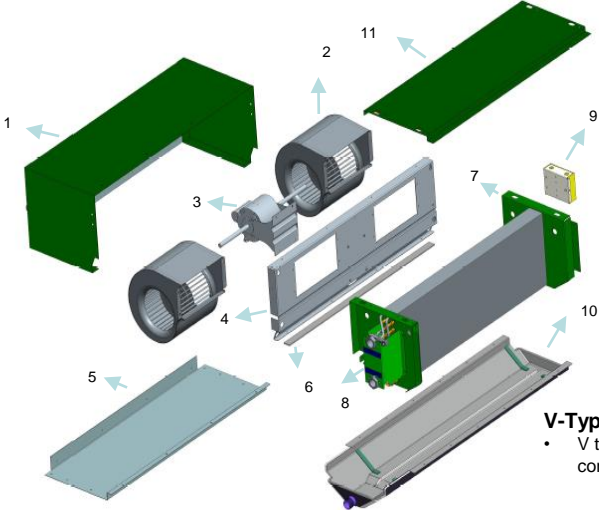


Filter
6 mm Nylon Filter


AC/BLDC Motor Options

Integrated Return Air Plenum

- Ensure better form and appearance. This integrated return air plenum also simplify assembly process.

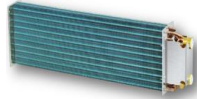


Coil
3R/4R coil for chiller application
4R coil for district cooling application



Control Options

- Thermostat & Valves



Aluminum Blue Fin

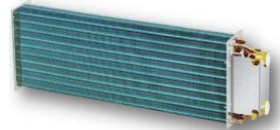
- Lanced sine wave Hydrophilic aluminum blue fin for improved performance.

V-Type Drain Pan

- V type drain pan for better condensate flow.

High Efficiency

- 42CT/CTL unit coil were manufactured using the latest developed double-flanging structure of wide seam blue hydrophilic aluminum fin with an advance mechanical tube-expanding process. This 42CT/CTL hydrophilic aluminum fin will provide sufficient heat transfer channel for an efficient heat exchange. In addition, the wide impeller fan will provide a uniform air distribution that makes the heat transfer more effective and ensure a better cooling capacity.



Low Noise

- 42CT/CTL unit series are equipped with a wide diameter impeller and a low speed forward multi-blade. The fan casing is strengthened with reinforcing ribs that provides additional structure strength.
- It adopts NSK bearings which ensuring small vibration and low noise during operation.



High Strength V Type Drain Pan

- 42CT/CTL unit series will come with a newly designed V-type drain pan that are produced using an integral molding process. The design of the drain outlet that are located at the lowest position of the unit will ensure condensate able to drain out smoothly. With this V-type design, it will also enhance the strength of the drain pan to avoid any deformation during transportation process.



TECHNICAL DATA

42CT Furred-in Ceiling FCU with Plenum 4 Rows (AC)

PERFORMANCE			MODEL: 42CT								
			03	04	05	06	07	08	10	12	14
Air Volume	High	CFM	300	400	500	600	700	800	1000	1200	1400
		ℓ/s	142	189	236	283	330	378	472	566	661
Cooling Capacity (Fluid)*		kW	3.30	3.80	4.7	5.8	6.6	7.7	9.6	10.4	12.1
		Btu/hr	11,270	12,978	16,051	19,808	22,540	26,297	32,786	35,518	41,324
Motor power output		W	24	30	51	55	72	34 x 2	48 x 2	62 x 2	83 x 2
Motor current		Amp	0.29	0.35	0.43	0.49	0.59	0.70	0.84	1.02	1.55
Sound Pressure**	High	dB(A)	36.7	38.9	39.6	40.5	41.3	42.1	42.3	42.5	44.0
	Med		35.1	37.7	37.5	38.4	39.3	40.1	40.3	40.8	42.0
	Low		33.3	36.1	35.6	36.5	37.5	38.4	38.4	39.4	39.9
Water Flow		ℓ/s	0.16	0.18	0.22	0.28	0.31	0.37	0.46	0.50	0.58
Water Pressure Drop		kPa	17.00	14.00	14.50	18.40	23.50	21.70	28.1	23.90	33.60
Fan Type		Centrifugal Forward-curved blades									
Motor Type		Permanent Split Capacitor									
Coil	No. of Row		4								
	Working Pressure		1.72 MPa								
	Face Area (m ²)		0.12	0.14	0.16	0.19	0.21	0.26	0.27	0.32	0.35
	Water Volume (ℓ)		0.84	0.95	1.06	1.29	1.40	1.73	1.80	2.08	2.30
Connections	Water In-Out/ Material		3/4" FPT (BSP)/ Brass (Threaded Connections)								
	Condensate Drain/ Material		3/4" MPT (BSP)/ GI Steel (Threaded Connections)								
Cabinet Size	Height	mm	242								
	Width	mm	560								
	Length	mm	781	861	941	1,101	1,181	1,421	1,471	1671	1,831
Casing Material / Thickness		Galvanized Steel/ 0.8 & 1.0mm									
Casing Treatment / External Finish		G60 Galvanized Steel (Z180 Zinc Coating)									
Net Weight		kg	17.2	18.1	20.3	22.9	24.3	31.3	33.4	36.9	39.4

NOTE:

Based on motor at high speed, standard air and dry coil operation; 5.0°C water temperature rise; entering air temperature 27.0°C DB; 19.0°C WB; Entering water temperature 7.0°C (EUROVENT CONDITION)

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

-- For other design conditions, please apply the selection program to finalize your applications --

Performance Assurance
Eurovent Certified



TECHNICAL DATA (cont')

42CTL Furred-in Ceiling FCU with Plenum 4 Rows (AC)

PERFORMANCE			MODEL: 42CTL (District Cooling Application)								
			03	04	05	06	07	08	10	12	14
Air Volume	High	CFM	300	400	500	600	700	800	1000	1200	1400
		ℓ/s	142	189	236	283	330	378	472	566	661
Cooling Capacity (Fluid)*		kW	2.40	2.80	3.80	4.80	5.30	6.70	7.90	10.60	11.50
		Btu/hr	8,196	9,563	12,978	16,393	18,100	22,882	26,980	36,201	39,275
Motor nominal power output		W	24	30	51	55	72	34 x 2	48 x 2	62 x 2	83 x 2
Motor current		Amp	0.29	0.35	0.43	0.49	0.59	0.70	0.84	1.02	1.55
Sound Pressure**	High	dB(A)	36.7	38.9	39.6	40.5	41.3	42.1	42.3	42.5	44.0
	Med		35.1	37.7	37.5	38.4	39.3	40.1	40.3	40.8	42.0
	Low		33.3	36.1	35.6	36.5	37.5	38.4	38.4	39.4	39.9
Water Flow		ℓ/s	0.06	0.07	0.10	0.13	0.14	0.18	0.21	0.28	0.30
Water Pressure Drop		kPa	40.60	19.00	37.80	29.20	33.70	37.50	42.10	46.50	58.40
Fan Type			Centrifugal Forward-curved blades								
Motor Type			Permanent Split Capacitor								
Coil	No. of Row		4								
	Working Pressure		1.72 Mpa								
	Face Area (m ²)		0.12	0.14	0.16	0.19	0.21	0.26	0.27	0.32	0.35
	Water Volume (ℓ)		0.84	0.95	1.06	1.29	1.40	1.73	1.80	2.08	2.30
Connections	Water In-Out/ Material		3/4" FPT (BSP)/ Brass (Threaded Connections)								
	Condensate Drain/ Material		3/4" MPT (BSP)/ GI Steel (Threaded Connections)								
Cabinet Size	Height	mm	242								
	Width	mm	560								
	Length	mm	781	861	941	1,101	1,181	1,421	1,471	1671	1,831
Casing Material / Thickness			Galvanized Steel/ 0.8 & 1.0mm								
Casing Treatment / External Finish			G60 Galvanized Steel (Z180 Zinc Coating)								
Net Weight		kg	17.2	18.1	20.3	22.9	24.3	31.3	33.4	36.9	39.4

NOTE:
 * Based on motor at high speed, standard air and dry coil operation, 9°C water temperature rise; entering-air temperature 24.0°C dB; 18.0°C wB; entering water temperature 5.5°C (EUROVENT CONDITION).
 ** Sound measurement in accordance with JIS8616-2006 standard (1.5M below the unit bottom)

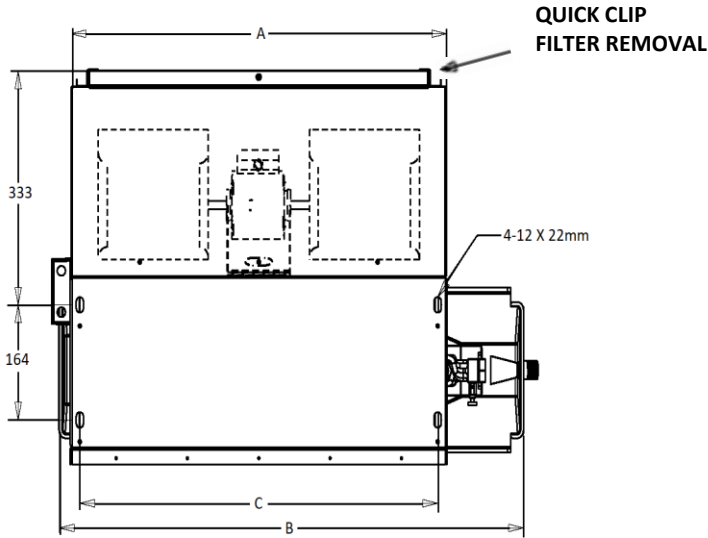
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Performance Assurance
Eurovent Certified

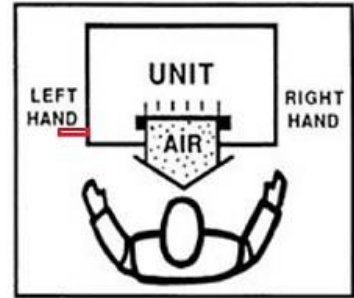


UNIT DIMENSIONS AND WEIGHT

42CT-/CTL Furred-in Ceiling FCU with Plenum



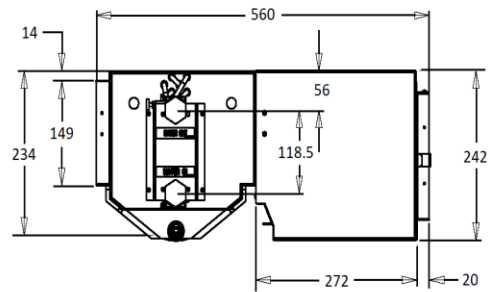
TOP VIEW



UNIT HANDLING



FRONT VIEW



HEADER VIEW

MODEL 42CT/CTL	DIMENSIONS (mm)			NET WEIGHT (kg)
	A	B	C	4 Rows (AC Motor)
03	632	781	602	17.2
04	712	861	682	18.1
05	792	941	762	20.3
06	952	1101	922	22.9
07	1032	1181	1002	24.3
08	1272	1421	1242	31.3
10	1322	1471	1292	33.4
12	1522	1671	1492	36.9
14	1682	1831	1652	39.4

PERFORMANCE RATING

42CT Furred-in Ceiling Model (4-Rows)

Model 42CT	Speed	ESP (Pa)	Air Flow (CFM)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
03	High	50	255	3.8	2.4	10.8	10.4	0.18	22.2
	Medium		187	2.9	1.8	10.1	9.5	0.14	13.3
	Low		104	1.7	1.1	9.1	8.5	0.08	4.7
04	High	50	328	4.2	2.8	12.2	11.7	0.20	16.9
	Medium		269	3.6	2.4	11.5	11.0	0.17	12.5
	Low		166	2.4	1.6	10.5	9.7	0.12	5.7
05	High	50	430	5.1	3.5	12.9	12.3	0.24	17.1
	Medium		333	4.3	2.8	12.1	11.4	0.20	12.0
	Low		249	3.4	2.2	11.2	10.5	0.16	7.7
06	High	50	529	6.2	4.2	13.1	12.4	0.29	20.4
	Medium		426	5.3	3.6	12.3	11.7	0.25	15.5
	Low		263	3.6	2.4	11.1	10.4	0.17	7.4
07	High	50	590	7.0	4.7	12.9	12.3	0.33	25.9
	Medium		451	5.8	3.8	12.0	11.4	0.28	18.4
	Low		306	4.3	2.8	11.0	10.3	0.20	10.3
08	High	50	675	8.3	5.5	12.6	12.0	0.40	24.1
	Medium		506	6.8	4.4	11.6	11.0	0.32	16.6
	Low		323	4.7	3.0	10.5	9.8	0.22	8.2
10	High	50	832	10.2	6.8	12.6	12.0	0.49	31.5
	Medium		653	8.6	5.7	11.7	11.1	0.41	23.5
	Low		469	6.7	4.3	10.8	10.1	0.32	15.0
12	High	50	933	10.9	7.4	13.1	12.4	0.52	25.5
	Medium		757	9.4	6.3	12.3	11.7	0.45	19.7
	Low		569	7.6	5	11.4	10.7	0.36	13.4
14	High	50	1084	12.6	8.6	13.1	12.4	0.60	36.4
	Medium		912	11.2	7.6	12.4	11.7	0.54	29.7
	Low		713	9.4	6.3	11.6	10.9	0.45	21.8

NOTE: Air Conditions: EDB/EWB 27.0/19.0°C

Water Conditions: EWT/LWT 7.0/12.0°C

ΔT: 5.0°C

PERFORMANCE RATING (cont')

42CTL Furred-in Ceiling Model (4-Rows) District Cooling Application

Model 42CTL	Speed	ESP (Pa)	Air Flow (CFM)	Capacity (kW)		Air off FCU (°C)		Water Flow (ℓ/s)	Water Pressure (kPa)
				Total	Sensible	DB	WB		
03	High	50	258	2.6	1.7	12.5	12	0.07	50.7
	Medium		189	2.1	1.3	11.6	11.1	0.06	32.9
	Low		105	1.3	0.8	10.2	9.7	0.04	13.3
04	High	50	332	3.1	2.1	13.1	12.6	0.08	23.1
	Medium		272	2.7	1.8	12.5	12	0.07	17.7
	Low		168	1.9	1.2	11.3	10.8	0.05	8.8
05	High	50	435	4.1	2.7	13	12.5	0.11	44.1
	Medium		337	3.5	2.3	12.2	11.7	0.09	32.4
	Low		252	2.8	1.8	11.4	10.8	0.08	21.5
06	High	50	534	5.2	3.4	12.8	12.3	0.14	34.1
	Medium		431	4.5	2.9	12.1	11.7	0.12	25.5
	Low		266	3.2	2	10.9	10.4	0.08	12.6
07	High	50	596	5.8	3.8	12.9	12.4	0.15	37.8
	Medium		455	4.8	3.1	12.1	11.6	0.13	27.6
	Low		309	3.6	2.3	11	10.5	0.1	15.7
08	High	50	682	7.3	4.6	12	11.7	0.19	42.5
	Medium		511	6	3.7	11.1	10.7	0.16	29.9
	Low		326	4.3	2.6	10	9.5	0.11	15.1
10	High	50	840	8.6	5.5	12.5	12	0.23	48.6
	Medium		660	7.3	4.6	11.6	11.2	0.19	37
	Low		474	5.8	3.6	10.7	10.1	0.15	24.2
12	High	50	942	11.2	6.9	11.2	10.9	0.3	50.9
	Medium		764	9.6	5.9	10.5	10.2	0.25	39
	Low		575	7.7	4.7	9.7	9.2	0.2	27
14	High	50	1095	12	7.5	11.9	11.6	0.32	62.8
	Medium		921	10.6	6.7	11.3	10.9	0.28	51.2
	Low		721	8.9	5.5	10.6	10.1	0.23	37.5

NOTE: Air Conditions: EDB/EWB 24.0/18.0°C

Water Conditions: EWT/LWT 5.5/14.5°C

ΔT: 9.0°C

-- For other design conditions, please apply the selection program to finalize your applications --



ELECTRICAL DATA

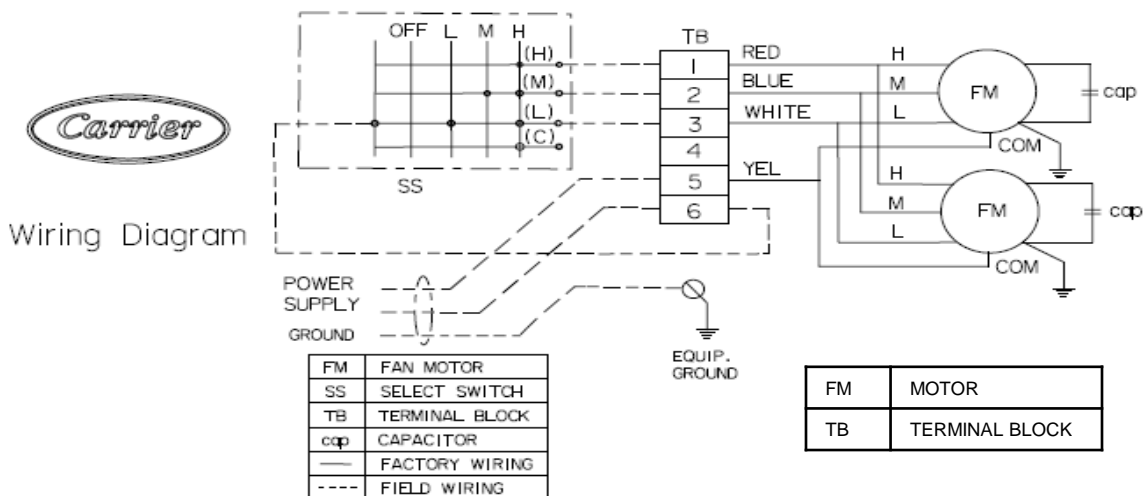
42CT-/CTL MOTOR DATA

Model	Unit Size	Power Supply (V-Ph-Hz)	Fan Speed	Fan Speed (rpm)	Nominal Power Output (W)	Power Input (W)	Running Amps 42CT-/CTL 4 rows	Remarks
42CT-/42CTL	03	230-1-50	Hi	1140	24	69	0.300	* Total motor amps and watts shown for units with 2 motors (size 08 to 14).
			Med	1065		59	0.270	
			Low	974		48	0.230	
	04		Hi	1185	30	74	0.324	
			Med	1080		68	0.303	
			Low	988		56	0.256	
	05		Hi	1256	51	99	0.431	
			Med	1134		84	0.385	
			Low	1037		76	0.353	
	06		Hi	1241	55	109	0.506	
			Med	1106		98	0.468	
			Low	1000		81	0.379	
	07		Hi	1291	72	139	0.620	
			Med	1129		115	0.520	
			Low	1016		96	0.440	
	08*		Hi	1152	34 (x2)	163	0.720	
			Med	1032		142	0.640	
			Low	957		119	0.550	
	10*		Hi	1310	48 (x2)	195	0.860	
			Med	1151		168	0.740	
			Low	1040		145	0.650	
	12*		Hi	1323	62 (x2)	241	1.080	
			Med	1205		214	0.950	
			Low	1071		190	0.850	
14*	Hi	1358	83 (x2)	324	1.600			
	Med	1220		265	1.160			
	Low	1104		223	0.990			

Based on 50PA
42CT/CTL 4R – Dry Coil CFM

WIRING DIAGRAM

42CT-/CTL Series Wiring Diagram (AC Motor)



NOTE:

1. Caution – Disconnect power before servicing.
2. Use 14 AWG, 75°C MIN, copper conductor.
3. Motor(s) thermally protected.
4. Provide disconnect means and over current protection as required.
5. 42CT-/CTL 003 to 006 are single motor; 42CT-/CTL 008 to 014 are double motors.
6. Snap apart carefully at hinge to separate cover from the control box.

GUIDE SPECIFICATIONS

HVAC GUIDE SPECIFICATIONS

Size Range: 300 to 1400 Nominal Cfm

42CT-/CTL Models

Standard base unit shall be equipped with a 3-row or 4-row coil for installation in a 2-pipe system. Coils shall have 7mm copper tubes, aluminium blue fins bonded to the tubes by mechanical expansion. Each coil shall have a manual air vent and threaded connections field piping (refer to Technical Data). Working pressure 1.72 MPa, 0.105mm fin thickness and 0.24mm tube wall thickness.

PART 1 – GENERAL

1.1 System Description

Horizontal, room fan coil unit with furred-in, above ceiling for ducting, or with cabinet for exposed ceiling installations.

1.2 Quality Assurance

- A. Carrier fan coil units are tested in accordance with Eurovent standard. (Refer page no. 2 for Eurovent website link).
- B. Unit insulation to be MVSS 302 compliance and drain pan insulation to be UL94 compliance.
- C. Carrier fan coil unit is completely insulated in fan section as well as coil section.
- D. Unit cabinet material to be galvanized steel sheet complying to ASTM A653 standard.
- E. Each coils are tested with Nitrogen (N2) under water at 400 psig while submerged in water.
- F. Factory shall be ISO-9001:2015 certified.

1.3 Delivery Storage and Handling

Each unit shall be individually packaged from point of manufacture. Unit shall be handled and stored in accordance with the manufacturer’s instructions.

PART 2 - PRODUCTS

EQUIPMENT

2.1 General

Factory assembled, horizontal, blow-thru type fan coil for furred-in, exposed ceiling or ducted installations. Unit shall be complete with water coil(s), fan(s), motor(s), drain pan, filters and all required wiring, collars for ducted units. Carrier fan coil unit casing is manufactured from heavy gauge galvanized steel sheet as per ASTM A653 standard. Unit inner surfaces for the cooling coil section are insulated for better thermal & sound performance.

2.2 42CT-, CTL Furred-in Units

Base 42CT, CTL unit with factory installed plenum section and cleanable filter as shown on equipment drawings. The plenum shall be rear air return. Shall enclose the fan/motor assemblies. Units have 10mm thick PU insulation on coil top panel and ¼” PE insulation 28.6kg/m³ density on the drain pan. Unit shall have a removable panel to provide access to fan/motor assemblies and unit identification label. Filter track with quick clip permanent Nylon filter and 18 mm supply collar for duct connection.

2.3 Fan

Direct driven, double width fan wheels with forward curved blades shall be statically and dynamically balanced. Fan scrolls and wheels shall be constructed of galvanized steel.

GUIDE SPECIFICATIONS (cont')

2.4 Coils

Standard base unit shall be equipped with a 3-row or 4-row coil for installation in a 2 pipe system. All coils shall have 7mm seamless copper tubes and “dual sine wave” corrugated aluminum fin plates. Coil fins are mechanically bonded to tube joints. All coils are tested with Nitrogen (N2) underwater at 400psi while submerged in water. Coils performance shall be rated in accordance to AHRI410 Standard (refer to Technical Data for more detail information). Working pressure 1.72 MPa, 0.105 mm fin thickness and 0.24 mm tube wall thickness for 7 mm tube or 0.28 mm tube wall thickness for 3/8” tube.

2.5 Drain Pan

Galvanized drain pan covers entire length & width of coil till the headers. Drain pan is powder coated and is insulated with ¼” closed cell PE insulation on the outside. The drain pan is with ¾” male pipe thread connection

2.6 Operating Characteristics

A one coil unit installed in a 2-pipe system shall be capable of providing cooling as determined by the operating mode of the central water supply system.

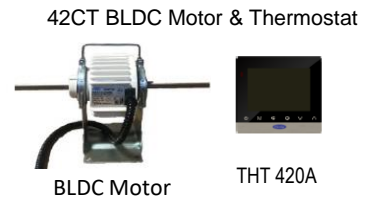
2.7 Electrical Requirements

Standard unit shall operate on 220V/240v, single phase, 50Hz electric power. All internal wiring shall be in flexible conduit.

2.8 Motor(s)

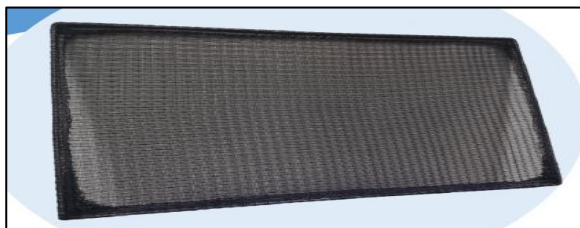
Fan motors shall be 3-speed, 230V (42CT Series), single phase, 50Hz, permanent split capacitor type, with ball type bearings and oversized oil reservoirs to ensure lubrication. The fan motor(s) shall be equipped with integral automatic temperature reset for motor protection.

Model	Type	Unit Size	Motor Insulation Class	End Closure Type
42CT/CTL	AC	All	B	Open Drip Proof
42CT/CTL	ECM	All	B	



2.9 Filter

Permanent washable Nylon filters (Honeycomb Polyolefin Network) with 6mm thickness and Ø4 frame material hard steel wire (BS EN10244 Class D or JIS G3532 class 2).



- Filter access by rear bottom removal.
- Aluminum Filter MERV 2, G2 filter class are available as a customization option upon request.



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42CT-&CTL/EUROVENT	NIL
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