

**42CE**  
**Fan Coil Unit**  
 Air Volume: 0.14 - 0.66m<sup>3</sup>/S  
**Low Height • Low Noise**



**TOTALINE**  
 For more details, please contact our Carrier India sales office:  
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# Carrier India



Dr. Willis Carrier

Carrier is a part of UTC Building & Industrial Systems, a unit of United Technologies Corp.(UTC), a leading provider to the aerospace and building systems industries worldwide. UTC was ranked at 151<sup>st</sup> position in Fortune 500 list of global corporations in 2014.

Built on Dr. Willis Carrier's invention of modern air conditioning in 1902, Carrier's research, expertise and innovation have resulted in market leading solutions. We recognize the vital importance of maintaining a responsible balance between the comfort we create today and the world we live in tomorrow. Millions of people trust Carrier's leadership in delivering efficient solutions. To know more, please visit <http://www.carrier.com>.

Over the years, Carrier India has significantly contributed in promoting sustainability. Carrier is the only company in the world to be a founding member of the Green Building Councils of the U.S., Argentina, China, India, Singapore and France. In fact, Carrier was instrumental in launching the U.S. Green Building Council® (USGBC) in 1993 and was the first company in the world to join the organization.



It invests in R&D resources to advance energy efficiency, ozone layer protection and low global warming technologies in its products. Carrier's AdvanTEC Solutions Center is a natural evolution of Carrier's approach to sustainability and supports customers around the world in developing strategic, energy-efficient and custom-engineered building solutions.

Carrier's efforts in promoting sustainability can be quantifiably measured by means of the Carrier CO2NSERVATION Meter, which meticulously calculates the avoided greenhouse emissions with the help of Carrier products, globally since 2000. To know more about the Carrier CO2NSERVATION Meter, please visit <http://www.naturalleader.com>.



ACE(Achieving Competitive Excellence) is our proprietary operating system to ensure world-class quality in our products and processes. With its relentless focus on increasing efficiency and reducing waste, ACE is integral to the company's performance model. The company's facilities worldwide are using the operating system to improve quality and customer satisfaction while lowering cost.

Carrier's presence in India dates back to 1986, when Carrier India was established. In the year 1988, the first manufacturing facility was commissioned in Gurgaon, Haryana. Spread in an area of 19 acres, this state-of-the-art facility consists of highly automated manufacturing unit, an excellent R&D Center and an advanced Quality Clinic. Currently, products manufactured in this facility include Cassettes, Ducted Splits, Package Units, Air Cooled & Water Cooled Screw Chillers, Air Cooled & Water Cooled Reciprocating Chillers, Fan Coil Units, Air Handling Units, Refrigeration products and Fire & Security products.

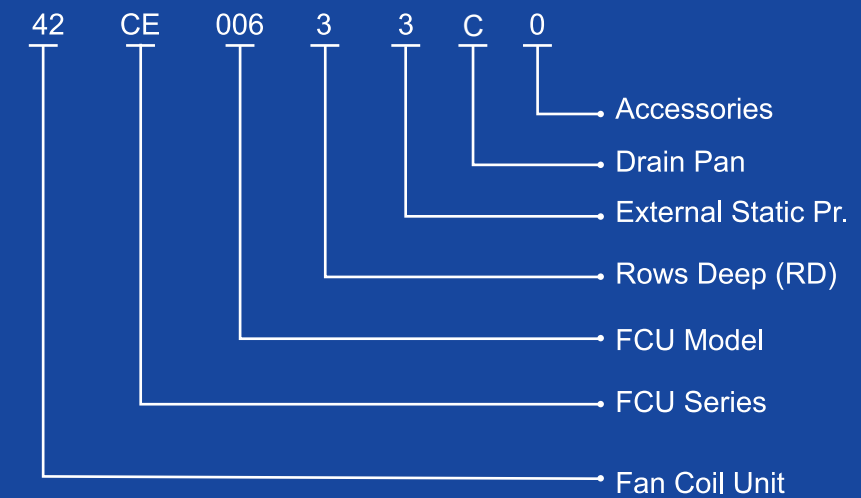
Snapshots of Carrier India manufacturing facility



Our comprehensive Environment, Health & Safety (EH&S) program establishes a framework and provides tools for implementing our EH&S practices into our business & culture. The Carrier Gurgaon facility holds a distinctive record of delivering over 17 million man hours without a lost work day incident, clearly citing the measures of safety followed here.

Carrier India has 14 sales and service offices, more than 800 sales and service channel partners - throughout the country, ensuring efficient solutions and quality services at customer's doorstep. To know more visit <http://www.carrierindia.com>.

## 42CE FCU Nomenclature :



**DIGIT NO. 1,2**  
product series  
42 : fan coil unit

**DIGIT NO. 3,4**  
model letters  
CE : horizontal ceiling FCU

**DIGIT NO. 5,6,7**  
unit size (airflow=unit size × 170 m<sup>3</sup>/h)  
003 : 510m<sup>3</sup>/h  
004 : 680m<sup>3</sup>/h

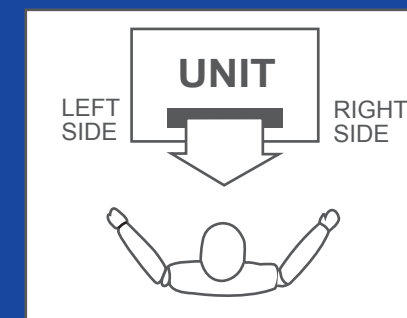
**DIGIT NO. 8**  
coil rows  
3 : 3 row

**DIGIT NO. 9**  
external static pressure  
3 : 30 Pa  
5 : 50 Pa

**DIGIT NO. 10**  
drain pan  
C : standard with auxiliary stainless steel drain pan  
D : standard with auxiliary galvanised iron drain pan

**DIGIT NO. 11**  
accessories  
0 : No valve package  
2 : 2 way valve package\*  
3 : 3 way valve package\*

Coil Hand off connection side



\*2way/3way valve package is with ball valve with strainer at water inlet and ball valve at water outlet.

## 42CE - Product features

### Excellent performance and efficiency

42CE Fan Coil Units are the new energy saving products improved with advanced technology by Carrier. The units have advanced technology of low noise fan, air condition manufacture process and the last lanced sine wave fin.

42CE is developed to be an ultra-tranquil, high efficiency, convenient using and compact configuration product.

### Ultra-tranquil

The units use the wide wheels of latest design low speed, DIDW centrifugal forward curved blower with specially designed motor to ensure the air quantity with low noise.

An additional accoustic insulation further reduced the unit noise by 2-5dB (A).



### High efficiency

Aluminum lanced sine wave fin coils with copper tubing assure highly efficient heat transfer between primary and secondary coil surfaces.



### Ultra thin

The unit height is only 24.1 cm so that they can save installation space and meet the requirement of all kinds of situations.

### Agile selection

- ✔ The 42CE fan coil unit is offered with return air plenum with nylon filter and auxiliary GI drain pan as a standard feature.
- ✔ The auxiliary drain pan is ideal to collect the condensate from the control valve & isolation valve and could be offered in stainless steel as an option.
- ✔ This design offers the compact sizing and in turn saving false ceiling space.

### Beside the characteristic above, the units have more development below

- ✔ The latest noise eliminated fiberglass insulation assures not only the good appearance and perfect performance but also well-insulated performance measuring up the international standard under the testing of most abominable sweat condition.
- ✔ The standard units are with 30Pa external static pressure and could be offered with 50Pa ESP as an option.
- ✔ Return air plenum has flexibility to be interchanged from rear to bottom at site.
- ✔ Isolation ball valves are provided at both inlet and outlet, with a stainer at the inlet. These valves are interchangeable with copper piping at the factory to enable ease of connection at the site. Valve Package is fitted with 2way / 3way, On/Off type, spring return control valve.

### Options



2-way valve

3-way valve



Thermostat



Remote Controller



## Technical Parameter

### TECHNICAL DATA

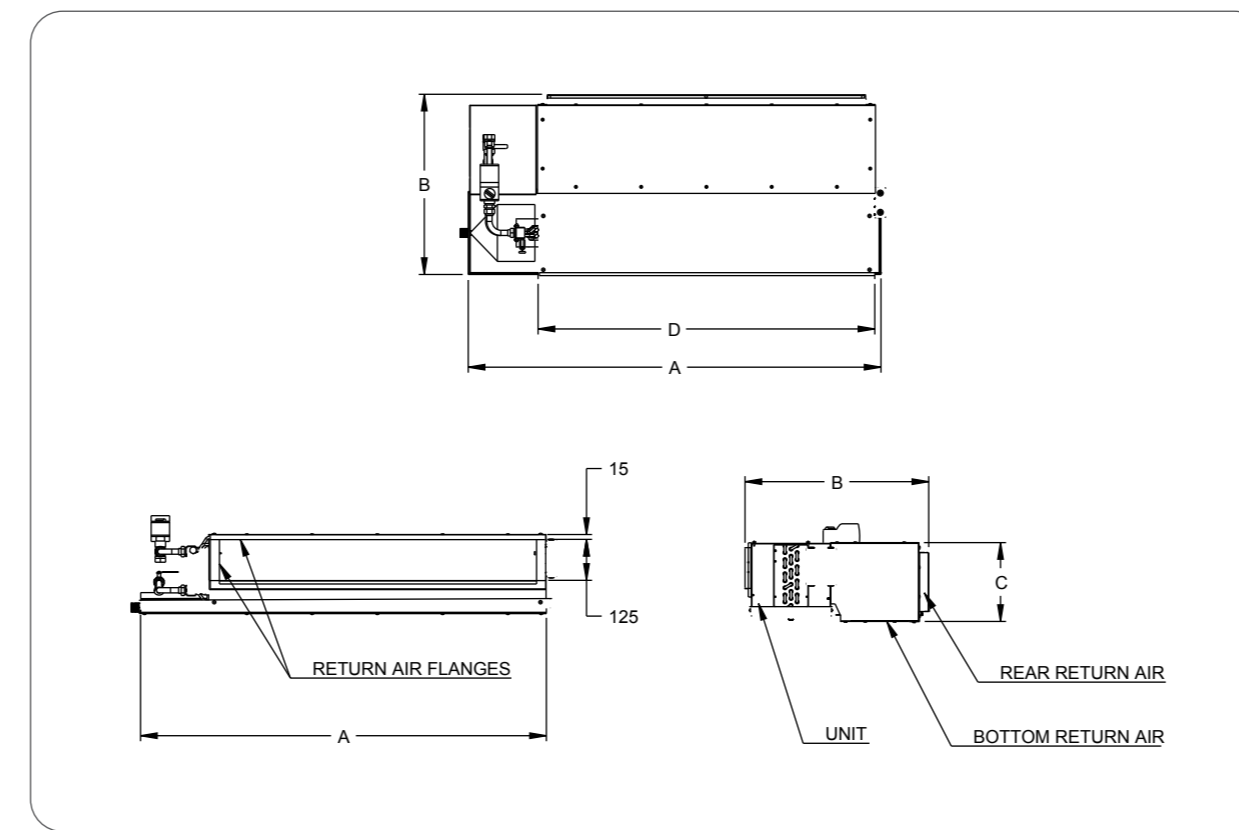
Performance		Model	003	004	006	008	010	012	014
Air Volume m³/s	HIGH		0.14	0.19	0.28	0.38	0.47	0.57	0.66
	MED		0.11	0.15	0.22	0.29	0.38	0.44	0.53
	LOW		0.08	0.11	0.16	0.22	0.28	0.33	0.40
Cooling Capacity (W)			3200	4150	6200	8100	9800	11500	13500
Heating Capacity (W)			5100	6450	9300	12500	15200	17200	20500
Power Input (W)	30 Pa		52	72	102	155	172	210	240
	50 Pa		63	84	112	174	195	236	290
Noise dB(A)	30 Pa	HIGH	41	44	47	48	49	50	53
		MED	36	37	43	43	43	44	49
		LOW	31	31	35	36	38	37	42
	50 Pa	HIGH	44	46	50	50	51	52	53
		MED	40	41	43	47	46	47	49
		LOW	32	35	38	42	40	41	44
Water Flow	l/min	9.2	11.9	17.8	23.2	28.1	32.9	38.6	
Water Drop	KPa	21	30	32	28	40	40	50	
Fan Type		Centrifugal forward-curved Blades							
Motor Type		Permanent Split Capacitor							
Coil	Row	3							
	Working Pressure	1.6 MPa							
CONNS	In-Out	3/4" FPT							
	Condensing Drain	3/4" MPT							
Net Weight (Kg)		19.5	23	27.5	36	39	44	51	
Options		2way/3way Motorized Valve							

- Note:
- The data is the performance in high speed with relevant static pressure.
  - Cooling Conditions: Entering Water 7°C, Temperature Rise 5°C, Entering Air Temperature 27°C DB, 19.5°C WB Heating Conditions: Water flow was the cooling conditions.
  - The noise is tested in the anechoic test room, measured with a fine audiometer located 1 meter away from the unit front panel and the unit bottom panel.

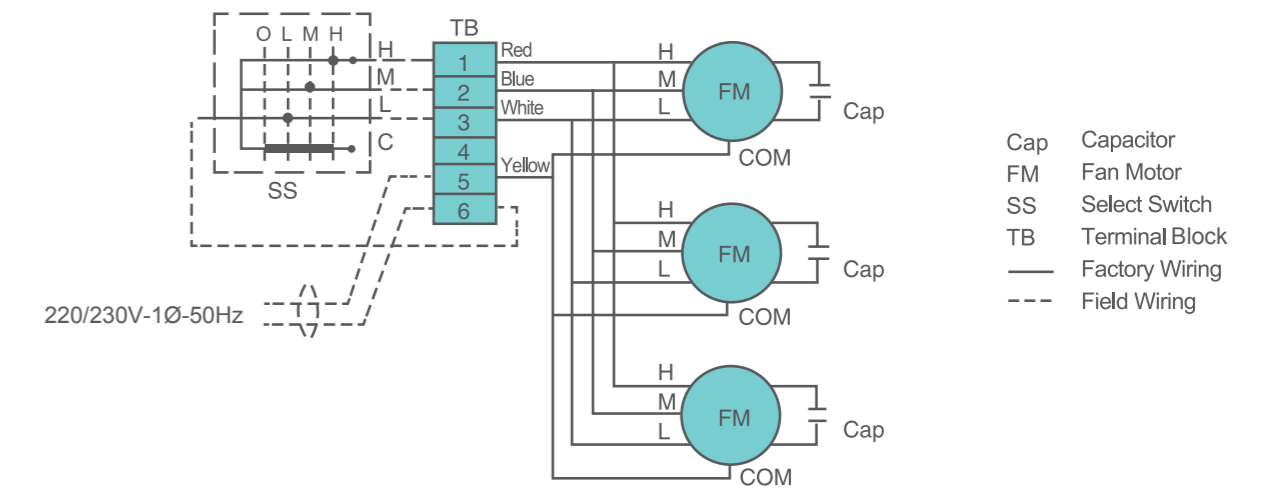
## Dimensions

### 42CE Fan Coil Unit

Model	Dimension cm (m)			
	A	B	C	D
	Length	Depth	Height	Mouth Size
42CE003	85.5(0.86)	56.6(0.57)	24.1(0.24)	63(0.63)
42CE004	97.5(0.98)	56.6(0.57)	24.1(0.24)	75(0.75)
42CE006	125.5(1.26)	56.6(0.57)	24.1(0.24)	105(1.1)
42CE008	149.5(1.50)	56.6(0.57)	24.1(0.24)	127(1.28)
42CE010	165.0(1.66)	56.6(0.57)	24.1(0.24)	139(1.40)
42CE012	185.5(1.86)	56.6(0.57)	24.1(0.24)	163(1.63)
42CE014	209.5(2.1)	56.6(0.57)	24.1(0.24)	187(1.87)



## Electric Diagram



### Power:220/230V-1Ø-50Hz

Type	003	004	006	008	010	012	014
Power Input (w)	30Pa	52	72	102	155	172	240
	50Pa	63	84	112	174	195	290
Current(A)	30Pa	0.24	0.33	0.46	0.70	0.78	1.09
	50Pa	0.29	0.38	0.51	0.79	0.89	1.32