

## 42CMS-W Series

*Chilled Water Fan Coil Unit  
Ceiling Concealed - Duct Type*  
Nominal : 400 - 2,000 CFM



# Features



## Give you design and equipment location flexibility

- Wide range of popular capacities for 400 - 2,000 cfm.
- Up to 8 sizes with Cabinet units.
- Select 3 or 4 row coils (008-020 model).
- Quiet operation

## Save operating costs with Carrier fan coils

- Individual unit shut off when not in use
- Efficient, 4 speed with High efficient BLDC motor
- High efficiency heat transfer surface

## Save you service and maintenance expense

- Insulated drain pan
- Easy access to components
- Rugged construction
- Factory leak test
- Long life, heavy duty bearings

## HIGH PERFORMANCE, ENERGY SAVINGS, PM2.5 & COMFORT

If Air side fan coil unit 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 42CMS series fan coil units, in capacities from 400 to 2,000 cfm.

Units are ideal for installations in hospitals, hotels, apartments and other multiroom buildings. provide unsurpassed year round comfort with high cooling performance.

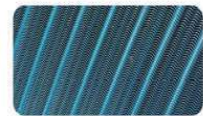
Carrier 42CMS series requires very little space and is easy to install. Piping, drain and wiring connections are readily accessible to save installation time and field labor expense.

## 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

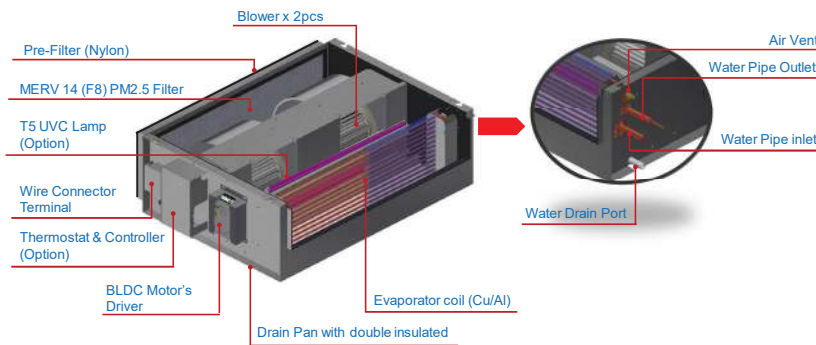
## Blue fin with Epoxy and Hydrophilic coating

- Prevents dirt from sticking to the fins
- Condensation water flows and water away dirt
- Anti-corrosion caused by oxidation
- Increases the efficiency of heat exchanger

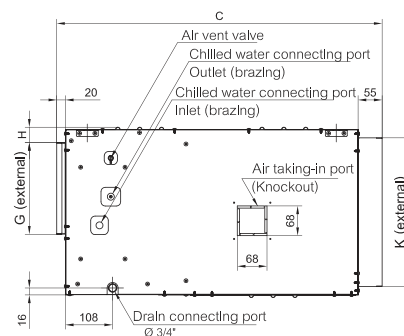
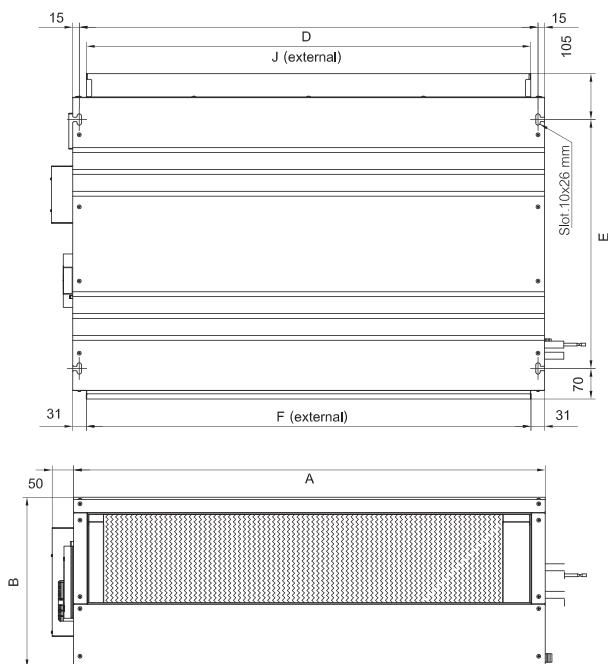


## MERV 14 (F8) PM2.5 Filter

- Easy Handling, installation and removal
- Available with anti-microbial
- 2" deep high efficiency and light weight
- For high quality air supply, creates more comfort and healthy environment.



## Dimension



MODEL	DIMENSIONS									
	A	B	C	D	E	F	G	H	J	K
42CMS004W212RE	870	310	655	840	480	808	160	20	807	260
42CMS004W312RE	870	310	655	840	480	808	160	20	807	260
42CMS006W212RE	870	345	695	840	520	808	180	20	807	295
42CMS006W312RE	870	345	695	840	520	808	180	20	807	295
42CMS008W312RE	870	345	695	840	520	808	180	20	807	295
42CMS008W412RE	870	345	695	840	520	808	180	20	807	295
42CMS010W312RE	1000	360	695	970	520	938	180	20	937	310
42CMS010W412RE	1080	360	695	1050	520	1018	180	20	1017	310
42CMS012W312RE	1080	390	695	1050	520	1018	210	20	1017	340
42CMS012W412RE	1150	390	695	1120	520	1088	210	20	1087	340
42CMS014W312RE	1080	390	745	1050	570	1018	210	30	1017	340
42CMS014W412RE	1150	390	745	1120	570	1088	210	30	1087	340
42CMS016W312RE	1150	390	745	1120	570	1088	210	30	1087	340
42CMS016W412RE	1150	390	745	1120	570	1088	210	30	1087	340
42CMS020W312RE	1280	390	745	1250	570	1218	210	30	1217	340
42CMS020W412RE	1280	390	745	1250	570	1218	210	30	1217	340

UNIT IN mm



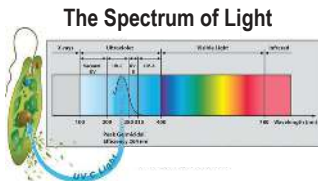
# Accessories (Optional) ▶

## UV Lamps

In response to the current coronavirus epidemic situation, sterilization option using UltraViolet (UV) is available for FCU products.

UV light for kill germs in a wide range of wavelengths between 200 to 400 (nm) which is highly effective in killing bacteria and reduces the formation of viruses by breaking down the molecular bonds that hold their DNA and RNA together.

UV-C at this wavelength, is the wavelength that DNA can absorb well can be punched and disabled their growth. By destroying their DNA sequence When doing this, the virus will lose their ability to reproduce.



UV-C-Radiation used for disinfection is most effective at a wavelength of 253.7 nm.



UV-C rays are not found in nature because these rays cannot pass through the ozone layer to the earth's surface. The use of this type of radiation to destroy the infection requires a source of radiation. Including mercury lamps

## Advantages of UV-C lamp

- 253.7nm UV-C lamp, no generate ozone.
- Plug-in products for easy installation.
- High-energy UV-C, effective life is up to 8000 hours.
- External control box, 220VAC standard power supply, simple wiring.
- Stainless steel reflector enhances the radiation intensity and avoids direct exposure to the human body.
- Able to kill bacteria in the air and prevent the virus from spreading through the host bacteria.

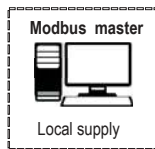
## UVC LAMP DATA

MODEL	HEAT EXCHANGER (mm.)		UVC LAMP Model	DISINFECTION At COIL SURFACE	IRRADIANCE	
	Height	Length			Min (uW/CM <sup>2</sup> )	Max (uW/CM <sup>2</sup> )
42CMS004W212_E	1,890	7,112	PL-L / 55W	> 99.99%	632.16	1,735.33
42CMS004W312_E	2,100	7,112	PL-L / 55W	> 99.99%	441.04	1,192.75
42CMS006W212_E	2,940	7,112	PL-L / 55W	> 99.99%	433.97	1,425.92
42CMS006W312_E	2,940	7,112	PL-L / 55W	> 99.99%	433.97	1,425.92
42CMS008W312_E	2,940	7,112	PL-L / 55W	> 99.99%	433.97	1,425.92
42CMS008W412_E	2,940	7,112	PL-L / 55W	> 99.99%	433.97	1,425.92
42CMS010W312_E	2,940	7,620	PL-L / 55W	> 99.99%	414.08	1,425.92
42CMS010W412_E	2,940	8,382	PL-L / 55W	> 99.99%	386.25	1,425.92
42CMS012W312_E	2,940	9,144	T5 75W / 85cm.	> 99.99%	379.95	1,499.82
42CMS012W412_E	2,940	9,906	T5 75W / 85cm.	> 99.99%	363.34	1,499.82
42CMS014W312_E	3,360	9,144	T5 75W / 85cm.	> 99.99%	367.36	1,347.81
42CMS014W412_E	2,940	9,906	T5 75W / 85cm.	> 99.99%	363.34	1,499.82
42CMS016W312_E	3,360	9,906	T5 75W / 85cm.	> 99.99%	367.36	1,347.81
42CMS016W412_E	2,940	9,906	T5 75W / 85cm.	> 99.99%	363.34	1,499.82
42CMS020W312_E	3,360	11,176	T5 75W / 85cm.	> 99.99%	315.13	1,347.81
42CMS020W412_E	3,360	11,176	T5 75W / 85cm.	> 99.99%	315.13	1,347.81

## BAS controller (Option)

### Model CARR-INTM9DT09X

- Open communication protocol Modbus RS-485
- Manages the DC motor or EC motor
- Manages the valve actuator proportional type
- External contract for key card ON-OFF



RS-485 MAX 246 Indoor / group



CARR-INTDT09



CARR-INTDT09



CARR-INTDT09



CARR-INTDT09

## Controller

Control box and cable set 4 meters, not exceeding 2,000 CFM Model ( 1 Motor )



CARR-INTM9BOX1M THERMOSTAT PCB9 BOX 1 MOTOR



CARR-INTMXDT09-UV CONTROL(DT09)+WIRE REMOTE UV



CARR-INTM9DT09X CONTROLLER PCB9 WIFI+MODBUS



CARR-INTLCD54 Wireless remote control



CARR-INTLCD54-UV Wireless remote control+UV



CARR-INTDT09 Wired remote control (Option-1)



CARR-INTDT09-WIFI Wired remote control (Option-2)

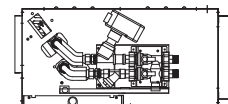
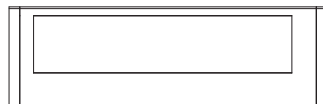


CCARR-INTDT09-UV Wired remote control (Option-3)

## Built in PICV (Option)

Factory assembled nest of valves and accessories help installers avoid installation mistakes onsite.

PICV with cabinet ▶



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