



AC/DC Motor Software

## TAKR®

### Round Ceiling Cassette Fan coil unit

#### > advantages

- 2 versions available; 2-pipe, 4-pipe
- U-shape coil: efficient exchange area.
- Optional: network control with DIP switch.
- AC/ DC motor is available.

#### > range

- ABS plastic front panel size : 1100 mm
- - Unit Height with 255mm and 290mm two types.

2 versions :

- - 360° Round 2 pipes + 2 rows (standard);
- 360° Round 4 pipes + 2 rows

#### > application

- TAKR unit for air conditioning of commercial buildings like Hotel lobbies and offices of cooling and heating .

#### > construction / composition

##### • Structure :

- ABS plastic front panel with elegant design.
- Metal parts with standard Q235 galvanized steel sheet with reinforcement hanger for ceiling mounted installation.
- IR Remote control is equipped as standard requirement.

##### • Drain Pump

- High performance of floating switch drain pump is equipped as standard parts.

##### • Fan :

- ABS fan impeller of centrifugal fans.
- High efficiency and low noise level

##### • Motor :

- Built-in single-phase motor IP20.
- Thermal protection.
- DC Motor is available.

##### • Heat Exchanger:

- Copper tubes 3/8"(9.52mm)of refrigeration quality.
- Connection : 3/4" male.
- Blades in aluminum, mechanically crimped.
- Mounted on slides and interchangeable on site.
- 100% coil leakage test of 350PSI.

##### • Fresh air and branch air duct connection:

- Fresh air and branch air duct connection can be as optional requirements.

#### > packaging

- Individual in carton of FCL sea shipment worthy quality.
- Extra pallet will be provided of LCL or air shipment. Pallet is with corner protection and forklift gap.

#### > specifications

The TAKR 360° round ceiling cassette fan-coil unit is to have a low profile of 255 and 290 mm. The airflow is from 850 to 2380 m3/h; cooling capacity from 4.5kw to 12.6kw. Project selection software is available for standard EUROVENT conditions, AHRI (ARI-440-2008) and district cooling conditions. Customerized requirements and OEM productions are available.

## technical description

#### > General features

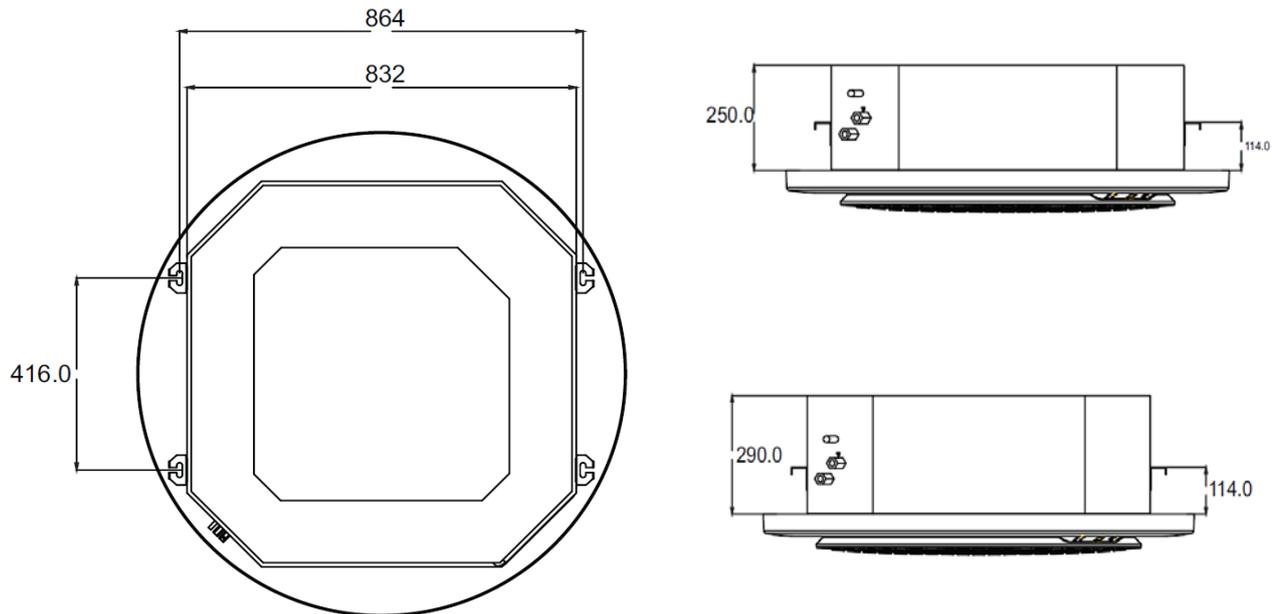
Model	05	06	08	10	12	
Coil	Tube	3/8"(9.52mm) diameter copper tube				
	Fin	12pcs/inch corrugated aluminum blue fin				
	L(mm)	1480	1480	1480	1480	1480
	H(mm)	200	200	200	250	250
Fan	Centrifugal backward ABS wheel DIDW fan					
Power Input(W)	76	96	132	152	189	
Noise dB(A)	43	45	46	47	50	
Coil Connector	3/4"(female connection)					
Drain Connector	3/4"(male connection)					
Net Weight(kg)	25	26	28	29	30	

14
3/8"(9.52mm) diameter copper tube
12pcs/inch corrugated aluminum blue fin
1480
250
Centrifugal backward ABS wheel DIDW fan
220
52
3/4"(female connection)
3/4"(male connection)



## technical description

### > Drawings



### > Dimensions List

ITEM mm	Panel Diameter mm	Unit Height mm	Hanger Length mm	Hanger Width mm
TAKR05	1100	250	864	416
TAKR06	1100	250	864	416
TAKR08	1100	250	864	416
TAKR10	1100	290	864	416
TAKR12	1100	290	864	416
TAKR14	1100	290	864	416

### > Performance Data

Conditions Reference:

**A. Entering air temperature: +27°C DB; 19.5°C WB; Water Inlet/Outlet: +7/12°C; Standard Reference: EUROVENT.**

**B. District Cooling Rating: Entering air temperature: +24.4°C DB; 17.2°C WB; Water Inlet/Outlet: +5.5/14.4°C.**

**C. Entering air temperature: +80°F DB; +67°F WB; Water Inlet/Outlet: +45/55°F; Standard Reference: ARI-440:2008.**

This catalogue performance data is only based on condition A and standard 2-pipe and 3-row coil fan coil unit. Please contact [info@taitech-ac.com](mailto:info@taitech-ac.com) for more careful data.

-Air Flow (m<sup>3</sup>/h)

Model	05	06	08	10	12	14
Nominal	850	1020	1360	1700	2040	2380
H	865	1134	1392	1719	2040	2382
M	640	790	1030	1290	1500	1850
L	430	520	690	860	1030	1200

## technical description

### -Cooling (kw)

Model		05	06	08	10	12	14
H	Total	4.52	5.63	7.00	9.12	10.82	12.58
M		3.53	4.39	5.46	7.11	8.44	9.81
L		2.82	3.51	4.37	5.69	6.75	7.85
H	Sensible	3.62	4.50	5.60	7.30	8.66	10.06
M		2.82	3.51	4.37	5.69	6.75	7.85
L		2.26	2.81	3.49	4.55	5.40	6.28

### -Heating (kw)

Model	05	06	08	10	12	14
H	7.02	8.38	11.23	13.86	16.68	19.52
M	5.27	6.29	8.42	10.40	12.51	14.64
L	3.95	4.71	6.32	7.80	9.38	10.98

### -Water Flow (l/s)

Model	05	06	08	10	12	14
H	0.26	0.32	0.38	0.48	0.54	0.63
M	0.22	0.28	0.30	0.45	0.48	0.51
L	0.20	0.23	0.23	0.40	0.42	0.46

### -Water Pressure Drop (kpa)

Model	05	06	08	10	12	14
H	15.16	20.58	25.94	29.17	34.22	42.02
M	12.29	17.27	18.91	26.23	28.62	31.69
L	10.34	12.71	12.82	22.10	23.50	26.92

## > Accessories

### -Thermostat

Mechanical or Digital Thermostat can be equipped as control parts. Various types of thermostats can be selected.



### -Control Valve

Mechanical or thermal types of valve can be selected. DN15(1/2"), 20(3/4") and 25(1") are the most frequently used type. Valve kit can be factory assembled for easy project site installation.



### -Drain pump maintenance

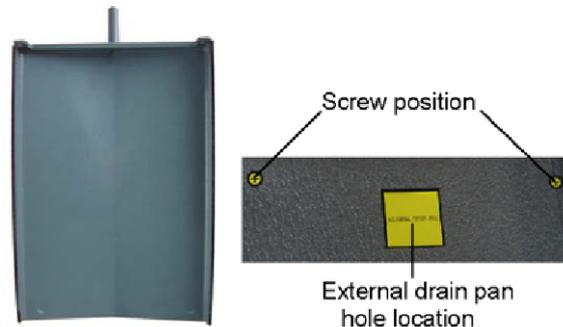
Easy drain pump maintenance design. Customers only need to draw out the panel to check pump conditions.



Pump maintenance

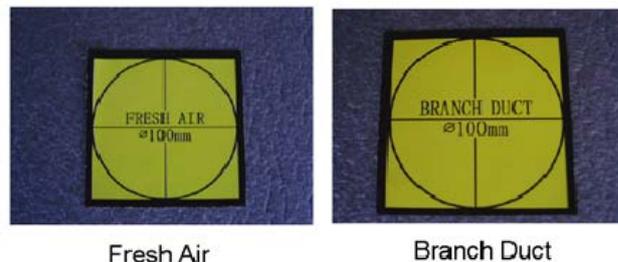
### -Auxiliary Drain Tray

G.I. material with power coating. This accessory is mainly used for condensate water from valve kit.



### -Fresh Air & Branch Air Duct Access

Fresh air and branch air duct access can be pre-stamped on the fan coil units for option.



Fresh Air

Branch Duct