TAKM®

Ceiling Cassette
Fan coil unit

AC／DC Motor Software

➤ specifications

The TAKM ceiling cassette fan-coil unit is to have a low profile of 290mm. The airflow is from 340 to 2890 m3/h; cooling capacity from 3.5kw to 15kw. Project selection software is available for standard EUROVENT conditions, AHRI (ARI-440-2008) and district cooling conditions. Customerized requirements and OEM productions are available.

➤ advantages

- **4 versions available; 1-way, 2-way, 4-way and 6-way.**
- **U-shape coil: efficient exchange area.**
- **Optional: network control with DIP switch.**
- **AC/ DC motor is available.**

➤ range

- 4 ABS plastic front panel sizes :
  - 680x680mm; 830x830mm;
  - 980x980mm;1140x1140mm.
- 4 versions :
  - 4-way 2 tubes + 2 rows (standard); 4-way 4 tubes + 2 rows.
  - 6-way 2 tubes + 2 rows ; 4-way 4 tubes + 2 rows.
  - 2-way 2 tubes + 2 rows ; 4-way 4 tubes + 2 rows.
  - 1-way 2 tubes + 3 rows ; 4-way 4 tubes + 3+1 rows.

➤ application

- TAKM 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.

technical description

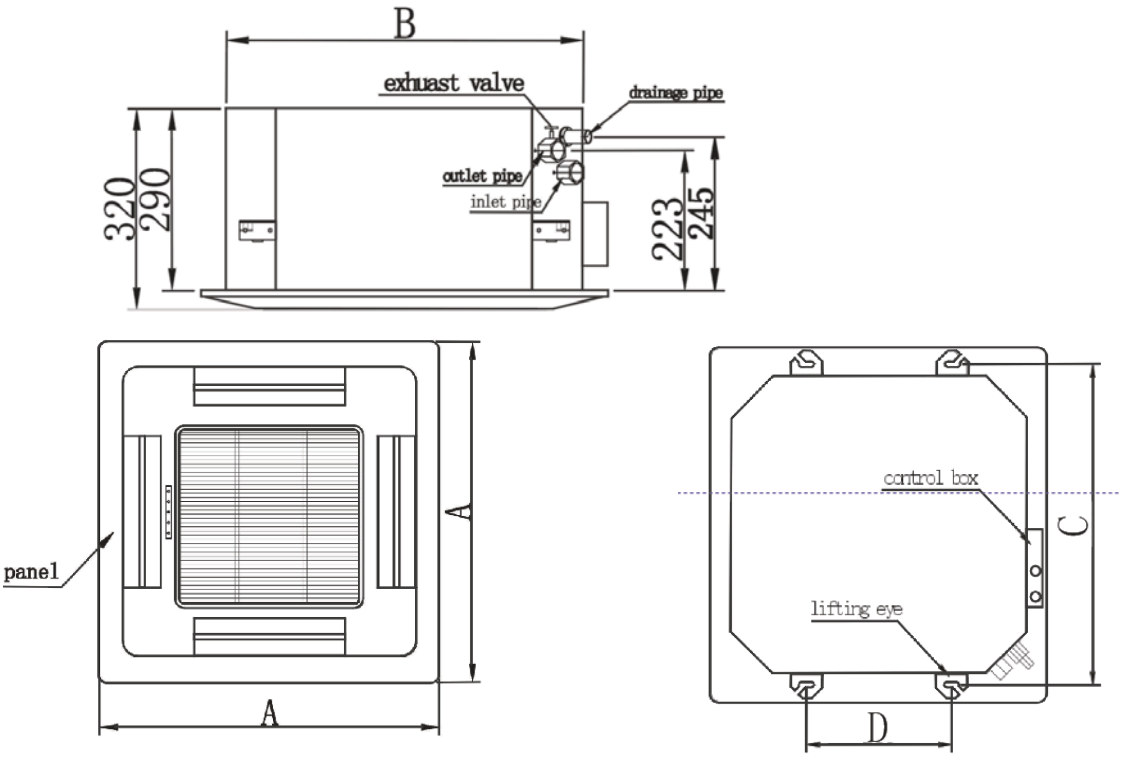
➤ General features

Model		03	04	05	06	08
Coil	Tube	3/8"(9.52mm) diameter copper tube				
	Fin	12pcs/inch corrugated aluminum blue fin				
	L(mm)	1480	1480	1790	1790	1790
	H(mm)	200	200	225	225	225
Fan		Centrifugal backward ABS wheel DIDW fan				
Power Input(W)		46	47	73	97	132
Noise dB(A)		27	29	34	35	37
Coil Connector		3/4"(female connection)				
Drain Connector		3/4"(male connection)				
Net Weight(kg)		25	26	28	29	30

10	12	14	17
3/8"(9.52mm) diameter copper tube			
12pcs/inch corrugated aluminum blue fin			
2200	2200	2200	2520
250	250	250	250
Centrifugal backward ABS wheel DIDW fan			
186	205	245	285
38	39	46	47
3/4"(female connection)			
3/4"(male connection)			
36	37	38	59

technical description

➢ Drawings



➢ Dimensions List

ITEM mm	A	B	C	D
TAKM03	680	580	614	424
TAKM04	680	580	614	424
TAKM05	830	705	737	338
TAKM06	830	705	737	338
TAKM08	830	705	737	338
TAKM10	980	832	864	416
TAKM12	980	832	864	416
TAKM14	980	832	864	416
TAKM17	1140	960	992	488

➢ 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 taitech-ac@vip.163.com for more careful data.

-Air Flow (m^3/h)

Model	03	04	05	06	08	10	12	14	17
Nominal	510	680	850	1020	1360	1700	2040	2380	2890
H	544	622	865	1134	1392	1719	1981	2382	2892
M	483	517	721	971	1052	1566	1692	1851	2101
L	308	320	621	743	748	1346	1421	1601	1692

TAITECH Climate Master

technical description

-Cooling (kw)

Model		03	04	05	06	08	10	12	14	17
H	Total	3.66	3.91	5.42	6.75	7.96	10.15	11.37	13.17	16.11
M		3.32	3.36	4.67	5.95	6.35	9.41	10.02	10.77	12.47
L		2.27	2.26	4.13	4.79	4.81	8.33	8.70	9.59	10.46
H	Sensible	2.44	2.66	3.69	4.63	5.50	6.96	7.83	9.11	11.08
M		2.21	2.28	3.16	4.07	4.35	6.43	6.86	7.40	8.50
L		1.49	1.51	2.79	3.25	3.26	5.67	5.93	6.56	7.09

-Heating (kw)

Model	03	04	05	06	08	10	12	14	17
H	4.30	4.73	6.54	8.07	9.46	12.00	13.38	15.36	18.51
M	3.92	4.07	5.64	7.15	7.61	11.18	11.87	12.70	14.57
L	2.63	2.77	5.01	5.79	5.82	9.95	10.38	11.38	12.32

-Water Flow (l/s)

Model	03	04	05	06	08	10	12	14	17
H	0.17	0.19	0.26	0.32	0.38	0.48	0.54	63.00	0.77
M	0.16	0.16	0.22	0.28	0.30	0.45	0.48	0.51	0.60
L	0.11	0.11	0.20	0.23	0.23	0.40	0.42	0.46	0.50

-Water Pressure Drop (kpa)

Model	03	04	05	06	08	10	12	14	17
H	33.89	14.03	15.16	20.58	25.94	29.17	34.22	42.02	63.85
M	29.57	11.35	12.29	17.27	18.91	26.23	28.62	31.69	44.59
L	17.33	6.50	10.34	12.71	12.82	22.10	23.50	26.92	34.84

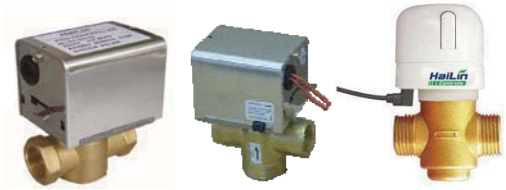
➤ Accessories

-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.



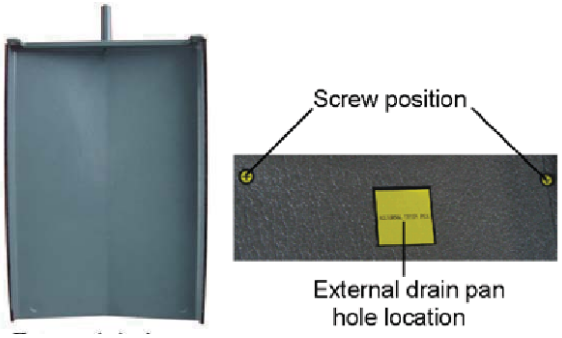
-Drain pump maintenance

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

Pump maintenance

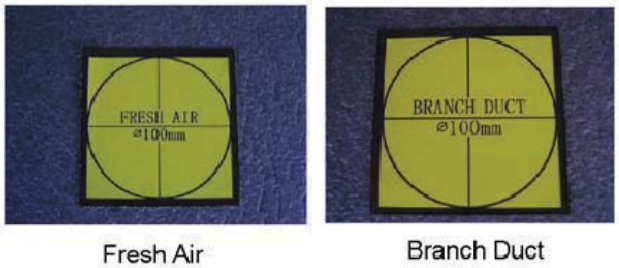
-Auxiliary Drain Tray

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