TAITECH
Climate Master

TAHE ®

Universal
Fan coil unit

AC／DC Motor Software

➢ advantages

- **Elegant cabinet and grill design**
- **V-shape drain pan; can be both horizontal and vertical installation**
- **Optional: network control with DIP switch.**
- **AC/ DC motor is available.**

➢ range

- 2 ways of air return:
  - Bottom air return
  - Front air return
- 2 versions :
  - 2 tubes + 3 rows (standard); 2 tubes + 4 rows.
  - 4 tubes + 3+1 rows ;

➢ application

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

➢ construction / composition

- **Structure :**
  -ABS plastic air return and supply grill with elegant design.
  -Metal parts with standard Q235 galvanized steel sheet with reinforcement hanger for ceiling mounted installation.
  -ABS plastic feet can be added for floor standing installation.

- **Air Return Ways**
  -Bottom air return or front air return can be selected by customers. Nylon filter is standard provided for both air return ways.

- **Fan :**
  - GI 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.

- **Drain Tray:**
  - Punched in a whole; without any welding traces. Powder coated on GI sheet with PE insulation.

➢ 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 TAHE ceiling cassette fan-coil unit is to have a low profile of 250mm. The airflow is from 340 to 2380 m3/h; cooling capacity from 1.98kw to 13kw. 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

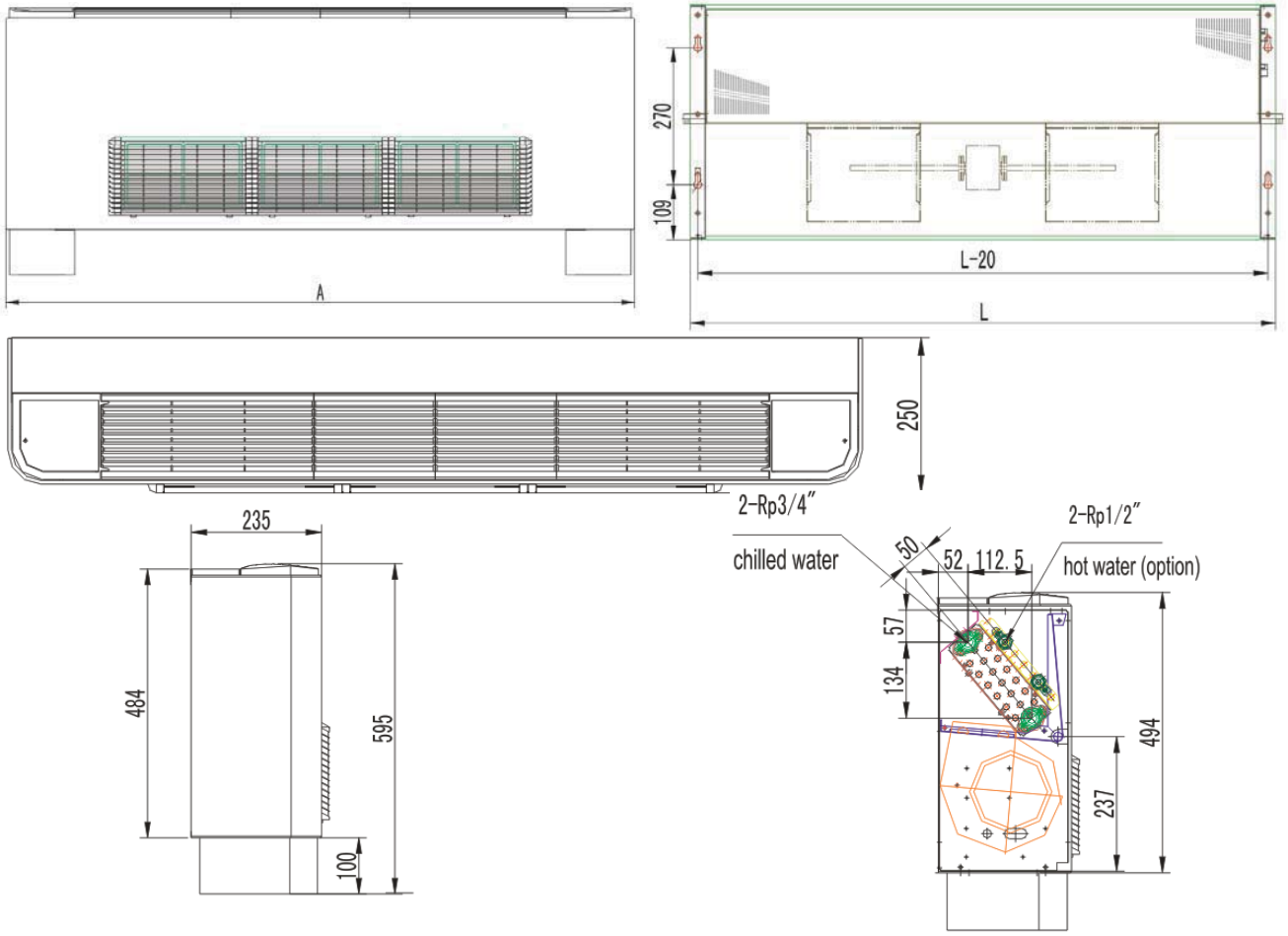
➢ General features

Model		02	03	04	05	06
Coil	Tube	3/8”(9.52mm) diameter copper tube				
	Fin	12pcs/inch corrugated aluminum blue fin				
	L(mm)	445	520	635	735	835
	H(mm)	200	200	200	200	200
Fan		Centrifugal forward curved GI wheel DIDW fan				
Power Input(W)		42	58	65	83	94
Noise dB(A)		28	29	33	35	38
Coil Connector		3/4”(female connection)				
Drain Connector		3/4”(male connection)				
Net Weight(kg)		18	19	21	23	24

08	10	12	14
3/8”(9.52mm) diameter copper tube			
12pcs/inch corrugated aluminum blue fin			
1065	1285	1495	1600
200	200	200	200
Centrifugal forward curved GI wheel DIDW fan			
114	138	184	221
39	41	42	45
3/4”(female connection)			
3/4”(male connection)			
34	37	45	48

technical description

➢ Drawings



➢ Dimensions List

Model	02	03	04	05	06	08	10	12	14
L	598	658	808	958	1008	1358	1508	1658	1808
A	858	908	1158	1208	1258	1608	1758	1908	2058

➢ 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	02	03	04	05	06	08	10	12	14
Nominal	340	510	680	850	1020	1360	1700	2040	2380
H	411	510	680	879	998	1289	1722	2122	2392
M	313	434	512	685	721	891	1139	1720	1890
L	230	340	381	430	481	709	814	989	1151

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technical description

-Cooling (kw)

Model		02	03	04	05	06	08	10	12	14
H	Total	1.98	2.55	3.51	4.56	5.34	7.21	9.64	11.93	13.37
M		1.64	2.28	2.89	3.84	4.25	5.54	7.16	10.28	11.31
L		1.33	1.93	2.34	2.75	3.16	4.68	5.58	6.82	7.84
H	Sensible	1.52	1.92	2.58	3.31	3.83	5.06	6.72	8.26	9.24
M		1.24	1.69	2.08	2.75	2.99	3.83	4.91	7.06	7.75
L		0.97	1.41	1.66	1.92	2.18	3.20	3.77	4.59	5.27

-Heating (kw)

Model	02	03	04	05	06	08	10	12	14
H	2.46	3.10	4.16	5.28	6.06	7.95	10.47	12.79	14.26
M	2.04	2.77	3.39	4.41	4.79	6.09	7.76	11.02	12.06
L	1.61	2.31	2.71	3.12	3.54	5.12	6.04	7.31	8.35

-Water Flow (l/s)

Model	02	03	04	05	06	08	10	12	14
H	0.09	0.12	0.17	0.22	0.25	0.34	0.46	0.57	0.64
M	0.08	0.11	0.14	0.18	0.20	0.26	0.34	0.49	0.54
L	0.06	0.09	0.11	0.13	0.15	0.22	0.27	0.33	0.37

-Water Pressure Drop (kpa)

Model	02	03	04	05	06	08	10	12	14
H	2.58	4.21	7.86	12.80	17.92	33.86	59.86	92.21	114.52
M	2.03	3.64	6.07	10.21	13.24	23.95	40.51	75.79	91.25
L	1.53	2.93	4.61	6.59	8.99	19.18	29.20	44.24	56.80

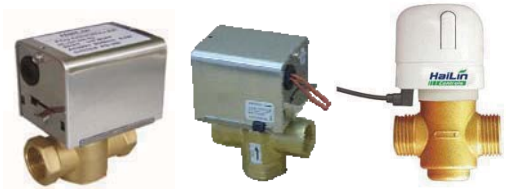
➤ Accessories

-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.

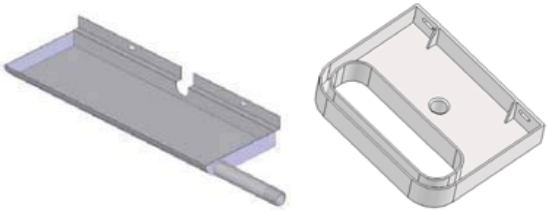


- Electrical Heater

Electrical heater can be as optional requirement for projects need high heat capacity. All heaters are with thermal protection under safety approval. Heat capacity ranges from 1.0kw to 6kw. Wiring of the electrical heater is in the same terminal box of fan coils.

-Auxiliary Drain Tray

Q235 G.I. material with power coating. This accessory is mainly used for condensate water from valve kit. The right picture auxiliary drain tray is used for horizontal installation. The left picture is used for vertical installation.



-ABS Plastic Feet

ABS plastic feet can be added for easy floor standing installation. It is not necessary for ceiling suspended installation.