TRUST
Air Conditioners

AIR HANDLING UNIT

TRUST AIR CONDITIONING EQUIPMENT CO.
Prepared By: Engineering & R & D Department.

Shiraz- May 2017

Content

توجه:

شرکت تراست حق تغییر مشخصات دستگاه ها را در جهت بهبود و ارتقای کیفیت برای خود محفوظ می دارد.

1. Product Introduction

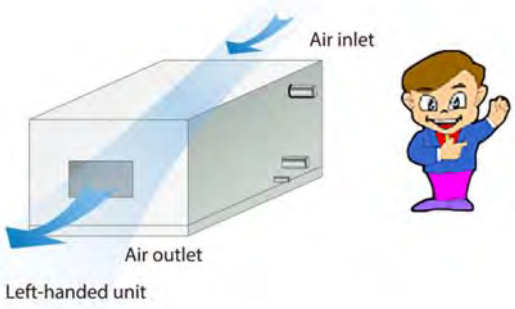
1.1 Brief Introduction

Air Handling Unit (AHU) is the primary equipment in an air system of a central hydronic system. It handles and conditions the air and distributes it to various conditioned spaces. TRUST air handling units (AHUs) have been designed and manufactured to meet the requirements of all kinds of space cooling and heating, such as office buildings, shopping malls, exhibition halls, airports, railway stations, hotels, factories and any other central air-conditioning systems.

TRUST AHUs have been widely used in most part of the world for a couple of years. Now, the 4th generation AHU has been launched to provide you with more comfortable and convenient. It adapts unitary structure design, more outstanding cold-bridge free performance, lower air leakage and more elegant appearance. There are 3 types: suspended type, horizontal type and vertical type, including 62 standard models, and the air flow rate is available from 1,000m^3/h to 50,000m^3/h. Different external static pressure (ESP) can be customized to meet different kinds of applications.

1.2 Orientation

Unit handling orientation is determined by location of pipe connection while facing unit along with the direction of air flow. The unit below is left-handed connection unit, otherwise is the right-handed connection unit.



1.3 Features

- **No Cold Bridge:**

All interior metal surfaces are insulated from external metal surfaces by means of polyurethane foam and specially designed gaskets. The common practice of special insulation used in conventional designs by gluing PE strips to exposed interior metal surfaces is eliminated. Cold bridge is thus prevented.

- **No Air Leakage:**

The aluminum frames add strength as well providing an air tight connection through its convex and concave profiles interlock. The integrated panels are formed with GI sheet steel, insulated with high pressure PU foam to preventing cold bridge and condensation. Nuts and bolts are used to further enhance the air tightness and rigidity of the cabinet.

- **Polyurethane Insulation:**

Panel insulation is made up of Polyurethane foam which is formed by specially designed molds under high pressure. Its density is 50 kg/m^3 and standard panel thickness is 25mm, 35mm and 50mm.

- **Modular Design:**

Each module is 100mm. Standardized modular panels fastened by nuts and bolts makes on site assembly of CKD units simple and neat.

- **Heat Exchanger:**

Coil is made by mechanical expansion to connect the copper tube with aluminum fins. Anti-corrosion coated aluminum and copper fins are optional. Stainless steel coils are also alternative. The heating and cooling coils are selected with professional software which is written based on the science with the actual situation of coil.

- **Low Noise:**

The low noise fans are selected with professional software which are statically and dynamically tested to ensure high efficiency, low noise and low vibration. Internal spring isolators and vibration dampers are standard to minimize vibration as well as a soft connection between air outlet of fan and the panel to minimize noise, furthermore, special integrate structure panels also reduces the noise.

- **Filter:**

Nylon filter can be taken out to wash or change.

1.4 Optional Spare Parts

- Control Box
- Humidifier
- Two-way/Three-way Valves
- Secondary and High Efficiency Filter
- Damper
- Electric Heater

2. Specifications

2.1 Suspended type

Return air condition

Model – **CB01-TMC**			**1.2A**	**1.8A**	**2.4A**	**3A**	**3.5A**	**4.1A**	**4.7A**	**5.3A**	**6.2A**	**7.1A**	**8.9A**
Air volume		m^3/h	2000	3000	4000	5000	6000	7000	8000	9000	10500	12000	15000
4Rows	Rated cooling capacity	kW	9.8	14.9	20.5	25.3	30.3	34.8	40.4	45.0	52.2	56.7	73.3
	Rated heating capacity	kW	20.6	30.6	40.7	50.9	60.4	69.6	80.5	90.1	104.4	121.2	147.5
	Water flow rate	L/s	0.5	0.7	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.7	3.5
	Water pressure drop	kPa	11	31.0	60.0	40.0	43.8	58.0	26.0	34.0	51.0	54.0	38.1
	Motor power	kW	0.32	0.75	1.10	1.50	1.50	2.20	2.20	3.00	3.00	4.00	5.50
	Chilled water pipe	DN	32	32	40	40	40	40	40	40	50	50	50
6Rows	Rated cooling capacity	kW	13.0	19.2	25.7	31.0	37.1	42.2	49.2	60.5	71.5	79.6	100.7
	Rated heating capacity	kW	24.1	35.4	46.9	58.4	70.0	80.9	93.4	103.0	121.3	135.4	171.1
	Water flow rate	L/s	0.6	0.9	1.2	1.5	1.8	2.0	2.4	2.9	3.4	3.8	4.8
	Water pressure drop	kPa	26.0	24.0	49.5	32.0	44.0	59.0	56.0	25.4	35.8	41.6	34.3
	Motor power	kW	0.32	0.75	1.10	1.50	2.20	2.20	3.00	3.00	4.00	4.00	5.50
	Chilled water pipe	DN	32	32	40	40	40	50	50	50	50	50	65
External static pressure		Pa	80	160	200	200	200	240	240	280	280	280	320
Sound level		dB(A)	55	59	60	62	63	64	64	66	67	68	69
Cooling water pipe		DN	25	25	25	25	25	25	25	25	25	25	32
Power supply			380V, 3N~, 50Hz										
Driven type			Direct driven	Belt driven									

Note:

1. Cooling capacity is based on the following:
   a) Water temperature is 7℃(inlet)/12℃(outlet);
   b) Air entering condition is 27℃ DB/19.5℃ WB.
2. Heating capacity is based on the following:
   a) Water temperature is 60℃(inlet)/50℃(outlet)
   b) Air entering condition is 15℃ DB.

Fresh air condition

Model – **CB01-TMC**			**1.2A**	**1.8A**	**2.4A**	**3A**	**3.5A**	**4.1A**	**4.7A**	**5.3A**	**6.2A**	**7.1A**	**8.9A**
Air volume		m^3/h	2000	3000	4000	5000	6000	7000	8000	9000	10500	12000	15000
4Rows	Rated cooling capacity	kW	24.3	36.2	45.4	58.9	65.0	75.9	88.1	99.1	117.4	130.1	165.2
	Rated heating capacity	kW	25.6	37.5	48.9	61.8	70.8	81.6	94.4	106.2	125.4	138.3	177.0
	Water flow rate	L/s	1.2	1.7	2.2	2.8	3.1	3.6	4.2	4.7	5.6	6.2	7.9
	Water pressure drop	kPa	43.0	48.0	32.0	63.0	11.0	15.1	14.4	19.0	29.5	32.5	27.2
	Motor power	kW	0.32	0.75	1.10	1.50	1.50	2.20	2.20	3.00	3.00	4.00	5.50
	Chilled water pipe	DN	32	40	40	50	50	50	50	65	65	65	80
6Rows	Rated cooling capacity	kW	28.5	42.2	58.3	71.7	87.9	101.1	114.5	126.6	145.1	157.0	204.8
	Rated heating capacity	kW	29.2	41.3	57.2	66.9	85.0	98.3	113.4	127.6	148.8	166.8	211.6
	Water flow rate	L/s	1.4	2.0	2.8	3.4	4.2	4.8	5.5	6.0	6.9	7.5	9.8
	Water pressure drop	kPa	31.4	33.0	65.5	41.0	47.7	68.4	63.3	37.5	57.9	68.8	56.6
	Motor power	kW	0.32	0.75	1.10	1.50	2.20	2.20	3.00	3.00	4.00	4.00	5.50
	Chilled water pipe	DN	32	40	50	50	50	65	65	65	80	80	80
External static pressure		Pa	80	160	200	200	200	240	240	280	280	280	320
Sound level		dB(A)	55	59	60	62	63	64	64	66	67	68	69
Cooling water pipe		DN	25	25	25	25	25	25	25	25	25	25	32
Power supply			380V, 3N~, 50Hz										
Driven type			Direct driven	Belt driven									

Note:

1. Cooling capacity is based on the following:
   a) Water temperature is 7℃(inlet)/12℃(outlet);
   b) Air entering condition is 27℃ DB/19.5℃ WB.
2. Heating capacity is based on the following:
   a) Water temperature is 60℃(inlet)/50℃(outlet)
   b) Air entering condition is 15℃ DB.

2.2 Horizontal type

Return air condition

Model – **CB01-TMH**			**3A**	**3.5A**	**4.7A**	**6.2A**	**8.9A**	**12.4A**	**14.2A**	**17.7A**	**20.7A**
Air volume		m^3/h	5000	6000	8000	10500	15000	21000	24000	30000	35000
4Rows	Rated cooling capacity	kW	26.8	33.1	43.6	58.9	82.1	116.9	136.2	170.3	202.5
	Rated heating capacity	kW	53.3	64.6	85.3	110.5	161.5	235.5	271.8	339.8	398.4
	Water flow rate	L/s	1.3	1.6	2.1	2.8	3.9	5.6	6.5	8.1	9.7
	Water pressure drop	kPa	38.9	59.5	38.5	50.6	49.1	36.3	53.4	56.8	85.6
	Chilled water pipe	DN	32	40	50	50	65	65	65	65	80
	Cooling water pipe	DN	25	25	25	25	32	32	32	32	32
6Rows	Rated cooling capacity	kW	33.4	40.7	55.3	69.3	103.5	150.1	174.4	218.0	258.4
	Rated heating capacity	kW	61.0	73.5	98.0	128.7	183.0	264.3	303.4	379.2	444.4
	Water flow rate	L/s	1.6	1.9	2.6	3.3	4.9	7.2	8.3	10.4	12.3
	Water pressure drop	kPa	30.3	40.3	74.7	48.8	38.0	26.4	37.7	39.8	61.6
	Chilled water pipe	DN	32	40	50	50	65	65	65	65	80
	Cooling water pipe	DN	25	25	25	25	32	32	32	32	32
sound level		dB(A)	61	62	64	66	68	70	71	73	73.5

Note:

1. Cooling capacity is based on the following:
   a) Water temperature is 7℃(inlet)/12℃(outlet);
   b) Air entering condition is 27℃ DB/19.5℃ WB.
2. Heating capacity is based on the following:
   a) Water temperature is 60℃(inlet)/50℃(outlet)
   b) Air entering condition is 15℃ DB.

Fresh air condition

Model – **CB01-TMH**			**3A**	**3.5A**	**4.7A**	**6.2A**	**8.9A**	**12.4A**	**14.2A**	**17.7A**	**20.7A**
Air volume		m^3/h	5000	6000	8000	10500	15000	21000	24000	30000	35000
4Rows	Rated cooling capacity	kW	62.7	75.2	96.6	132.6	181.5	253.6	293.4	366.8	433.1
	Rated heating capacity	kW	66.8	80.2	104.8	140.3	210.4	294.6	338.3	394.6	462.5
	Water flow rate	L/s	3.0	3.6	4.6	6.3	8.7	12.1	14.0	17.5	20.7
	Water pressure drop	kPa	64.3	78.3	57.7	88.6	27.8	28.1	39.6	43.2	63.7
	Chilled water pipe	DN	50	50	65	65	80	80	80	80	80
	Cooling water pipe	DN	25	25	25	25	32	32	32	32	32
6Rows	Rated cooling capacity	kW	72.7	88.7	117.7	154.5	230.3	303.7	340.3	425.2	514.5
	Rated heating capacity	kW	76.0	91.2	121.1	159.7	232.0	326.2	372.8	464.0	539.0
	Water flow rate	L/s	3.5	4.2	5.6	7.4	11.0	14.5	16.3	20.3	24.6
	Water pressure drop	kPa	53.5	74.9	42.8	60.0	62.8	78.3	*70.7	*75.0	*83.6
	Chilled water pipe	DN	50	50	65	65	80	80	80	80	80
	Cooling water pipe	DN	25	25	25	25	32	32	32	32	32
sound level		dB(A)	61	62	64	66	68	70	71	73	73.5

Note:

1. Cooling capacity is based on the following:
   a) Water temperature is 7℃(inlet)/12℃(outlet);
   b) Air entering condition is 27℃ DB/19.5℃ WB.
2. Heating capacity is based on the following:
   a) Water temperature is 60℃(inlet)/50℃(outlet)
   b) Air entering condition is 15℃ DB.

2.3 Vertical type

Return air condition

Model – **CB01-TMV**			**1.8A**	**2.4A**	**3A**	**3.5A**	**4.7A**	**6.2A**	**8.9A**	**12.4A**	**14.2A**	**17.7A**
Air volume		m^3/h	3000	4000	5000	6000	8000	10500	15000	21000	24000	30000
4Rows	Rated cooling capacity	kW	16.1	21.4	26.8	33.1	43.6	58.9	82.1	116.9	136.2	170.3
	Rated heating capacity	kW	32.0	42.4	53.3	64.6	85.3	110.5	161.5	235.5	271.8	339.8
	Water flow rate	L/s	0.8	1.0	1.3	1.6	2.1	2.8	3.9	5.6	6.5	8.1
	Water pressure drop	kPa	28.7	45.3	38.9	59.5	38.5	50.6	49.1	36.3	53.4	56.8
	Chilled water pipe	DN	32	32	32	40	50	50	65	65	65	65
	Cooling water pipe	DN	25	25	25	25	25	25	32	32	32	32
6Rows	Rated cooling capacity	kW	20.4	26.4	33.4	40.7	55.3	69.3	103.5	150.1	174.4	218.0
	Rated heating capacity	kW	38.0	49.6	61.0	73.5	98.0	128.7	183.0	264.3	303.4	379.2
	Water flow rate	L/s	1.0	1.3	1.6	1.9	2.6	3.3	4.9	7.2	8.3	10.4
	Water pressure drop	kPa	71.6	34.8	30.3	40.3	74.7	48.8	38.0	26.4	37.7	39.8
	Chilled water pipe	DN	32	32	32	40	50	50	65	65	65	65
	Cooling water pipe	DN	25	25	25	25	25	25	32	32	32	32
sound level		dB(A)	58	59	61	62	64	66	68	70	71	73

Note:

1. Cooling capacity is based on the following:
   a) Water temperature is 7℃(inlet)/12℃(outlet);
   b) Air entering condition is 27℃ DB/19.5℃ WB.
2. Heating capacity is based on the following:
   a) Water temperature is 60℃(inlet)/50℃(outlet)
   b) Air entering condition is 15℃ DB.

Fresh air condition

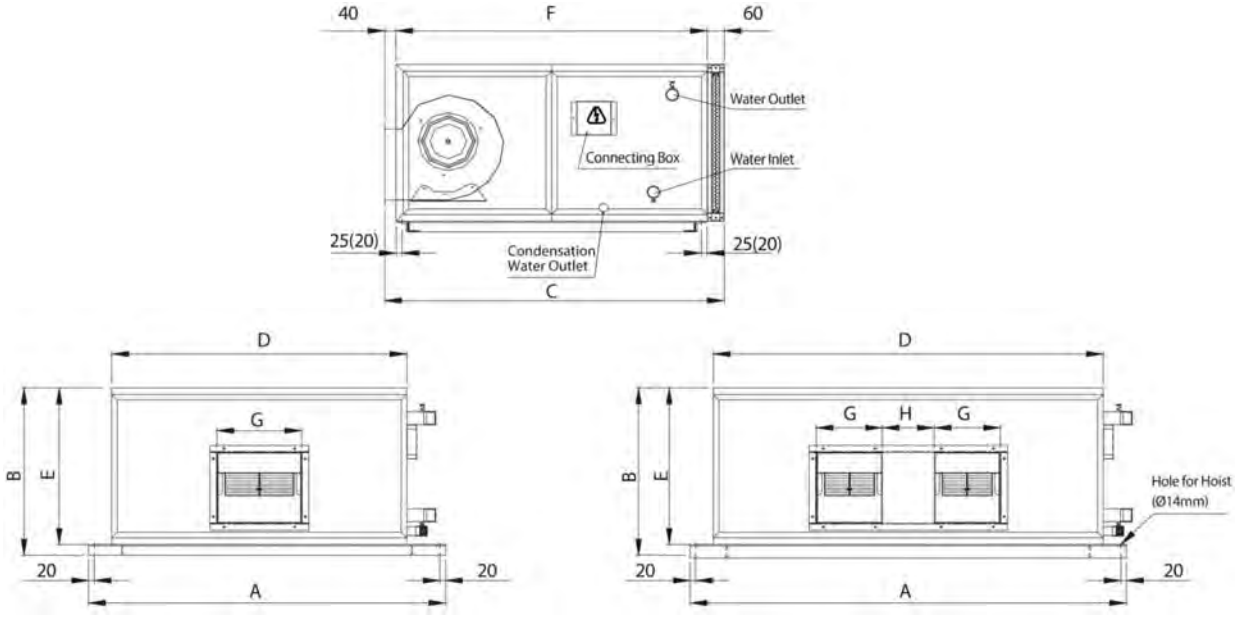
Model – **CB01-TMV**			**1.8A**	**2.4A**	**3A**	**3.5A**	**4.7A**	**6.2A**	**8.9A**	**12.4A**	**14.2A**	**17.7A**
Air volume		m^3/h	3000	4000	5000	6000	8000	10500	15000	21000	24000	30000
4Rows	Rated cooling capacity	kW	38.7	49.5	62.7	75.2	96.6	132.6	181.5	253.6	293.4	366.8
	Rated heating capacity	kW	40.7	52.9	66.8	80.2	104.8	140.8	210.4	294.6	338.3	394.6
	Water flow rate	L/s	1.8	2.4	3.0	3.6	4.6	6.3	8.7	12.1	14.0	17.5
	Water pressure drop	kPa	44.0	62.5	64.3	78.3	57.7	88.6	27.8	28.1	39.6	43.2
	Chilled water pipe	DN	40	50	50	50	65	65	80	80	80	80
	Cooling water pipe	DN	25	25	25	25	25	25	32	32	32	32
6Rows	Rated cooling capacity	kW	45.4	59.1	72.7	88.7	117.7	154.5	230.3	303.7	340.2	425.2
	Rated heating capacity	kW	45.6	60.9	76.0	91.2	121.1	159.7	232.0	326.2	372.8	464.0
	Water flow rate	L/s	2.2	2.8	3.5	4.2	5.6	7.4	11.0	14.5	16.3	20.3
	Water pressure drop	kPa	89.5	55.8	53.5	74.9	42.8	60.0	62.8	78.3	*70.7	*75.0
	Chilled water pipe	DN	40	50	50	50	65	65	80	80	80	80
	Cooling water pipe	DN	25	25	25	25	25	25	32	32	32	32
sound level		dB(A)	58	59	61	62	64	66	68	70	71	73

Note:

1. Cooling capacity is based on the following:
   a) Water temperature is 7℃(inlet)/12℃(outlet);
   b) Air entering condition is 27℃ DB/19.5℃ WB.
2. Heating capacity is based on the following:
   a) Water temperature is 60℃(inlet)/50℃(outlet)
   b) Air entering condition is 15℃ DB.

3. Dimension

3.1 Suspended type

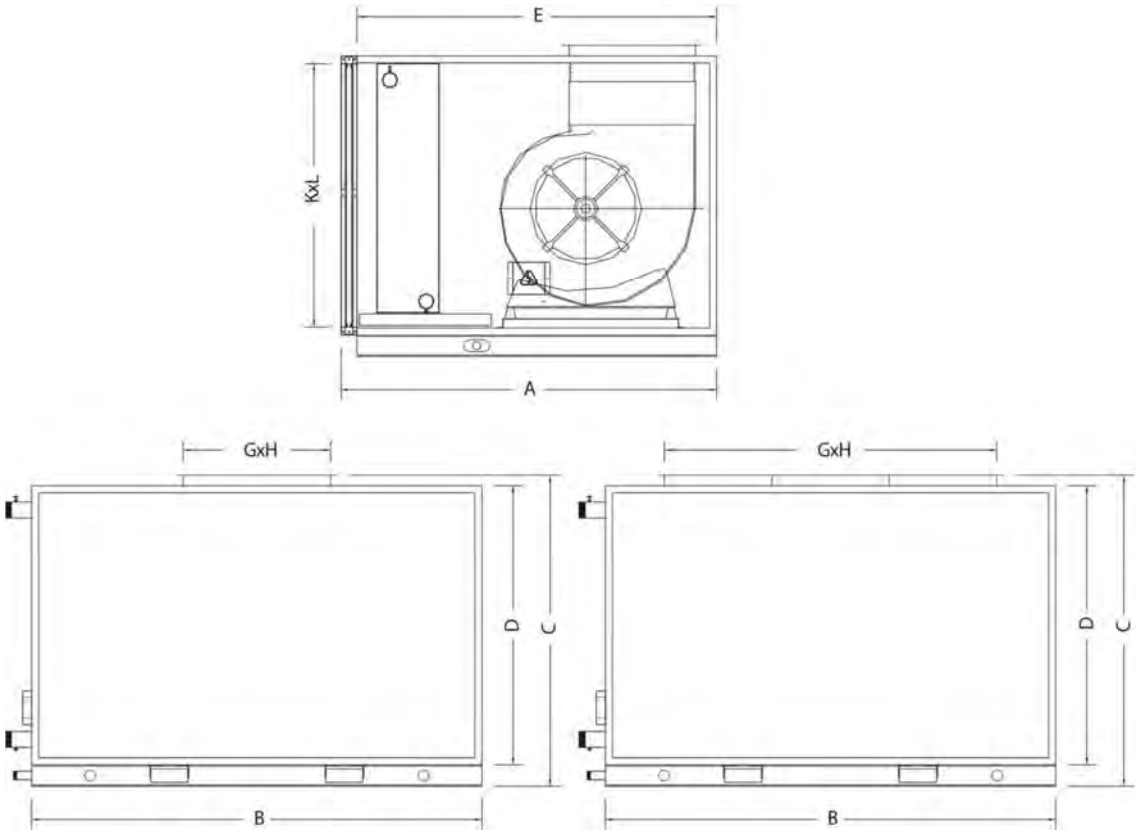


1.2,1.8,2.4A

3,3.5,4.1,4.7,5.3,6.2,7.1,8.9A

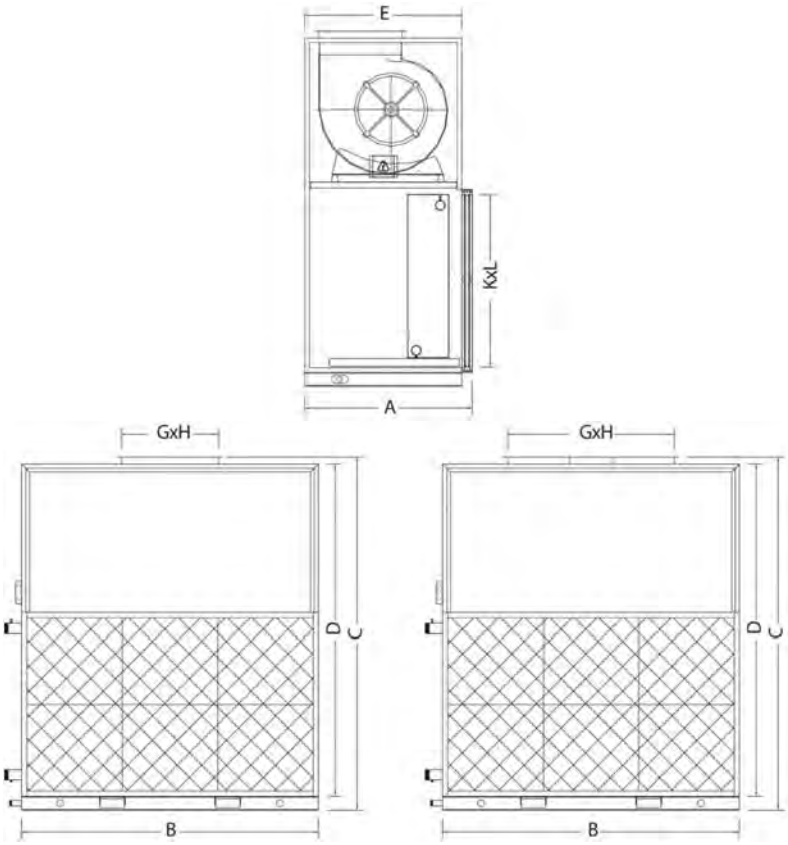
Model CB01-TMC	A	B	C	D	E	F	G	H	J	return flange (L×W)	outlet flange (L×W)	Weight (kg)	
												4Rows	6Rows
1.2A	992	620	950	828	580	850	300	—	240	768×520	300×240	71	81
1.8A	1207	620	1000	1043	580	900	298	—	262	983×520	298×262	90	121
2.4A	1405	620	1000	1241	580	900	331	—	289	1181×520	331×289	99	129
3A	1657	630	1000	1493	580	900	232	184	2 62	1433×520	648×262	128	158
3.5A	1734	690	1000	1570	640	900	265	214	289	1510×580	744×289	139	180
4.1A	1859	690	1000	1695	640	900	331	264	289	1635×580	926×289	192	222
4.7A	1859	780	1000	1695	730	900	331	264	289	1635×670	926×289	231	271
5.3A	1988	780	1100	1824	730	1000	309	244	341	1764×670	862×341	270	305
6.2A	2248	780	1100	2084	730	1000	309	244	341	2024×670	862×341	279	309
7.1A	2298	820	1100	2134	770	1000	395	324	341	2074×710	1114×341	287	311
8.9A	2241	1155	1300	2041	1075	1200	373	294	404	1981×1015	1040×404	372	414

3.2 Horizontal type



Model CB01-TMH	A	B	C	D	E	G	H	K	L	Weight (kg)	
										4Rows	6Rows
3A	1160	1053	920	800	1100	309	341	993	740	186	197
3.5A	1160	1153	990	870	1100	395	341	1093	810	211	223
4.7A	1260	1353	1070	950	1200	373	404	1293	890	256	282
6.2A	1410	1553	1170	1050	1350	430	478	1493	990	325	342
8.9A	1360	1953	1270	1150	1300	1040	404	1893	1090	447	470
12.4A	1510	2353	1370	1250	1450	1203	478	2293	1190	584	626
14.2A	1510	2653	1390	1250	1450	1572	478	2593	1190	644	692
17.7A	1560	2653	1640	1500	1500	1572	478	2593	1440	761	813
20.7A	1710	3053	1640	1500	1650	1776	638	2993	1440	953	1022

3.3 Vertical type



Model **CB01-TMV**	A	B	C	D	E	G	H	K	L	Weight (kg)	
										4Rows	4Rows
1.8A	640	1000	1220	1100	580	298	262	940	490	153	160
2.4A	640	1100	1320	1200	580	331	289	1040	550	175	183
3A	720	1100	1520	1400	660	309	341	1040	700	206	216
3.5A	720	1200	1620	1500	660	395	341	1140	750	231	244
4.7A	800	1400	1720	1600	740	373	404	1340	800	272	289
6.2A	930	1600	1920	1800	870	430	478	1540	900	360	376
8.9A	930	2000	2020	1900	870	1040	404	1940	1000	491	520
12.4A	960	2500	2120	2000	900	1203	478	2440	1050	631	673
14.2A	960	2800	2220	2100	900	1572	478	2740	1150	682	730
17.7A	960	2800	2420	2300	900	1572	478	2740	1350	786	845

4. Coil Data

4.1 Suspended type

Model **CB01-TMC**	Type	Tube size	No. of rows	Fin per inch	Face area (L × H)
	-	mm	-	FPI	mm
1.2A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	585×457.2
1.8A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	800×457.2
2.4A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	998×457.2
3A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	1250×457.2
3.5A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	1312×508
4.1A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	1437×508
4.7A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	1437×609.6
5.3A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	1561×609.6
6.2A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	1821×609.6
7.1A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	1870×609.6
8.9A	Copper tube and aluminum fin	Φ9.52	4/6	2.3	1777.5×863.6

4.2 Horizontal type

Model **CB01-TMH**	Type	Tube size	No. of rows	Fin per inch	Face area (L × H)
	-	mm	-	FPI	mm
3A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	820×660.4
3.5A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	920×711.2
4.7A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	1110×762
6.2A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	1310×863.6
8.9A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	1700×965.2
12.4A	Copper tube and aluminum fin	Φ12.7	4/6	2.0	2090×1079.5
14.2A	Copper tube and aluminum fin	Φ12.7	4/6	2.0	2390×1079.5
17.7A	Copper tube and aluminum fin	Φ12.7	4/6	2.0	2390×1333.5
20.7A	Copper tube and aluminum fin	Φ12.7	4/6	2.0	2790×1333.5

4.3 Vertical type

Model **CB01-TMV**	Type	Tube size	No. of rows	Fin per inch	Face area (L × H)
	-	mm	-	FPI	mm
1.8A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	730×457.2
2.4A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	820×508
3A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	820×660.4
3.5A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	920×711.2
4.7A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	1110×762
6.2A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	1310×863.6
8.9A	Copper tube and aluminum fin	Φ9.52	4/6	1.8	1700×965.2
12.4A	Copper tube and aluminum fin	Φ12.7	4/6	2.0	2240×952.5
14.2A	Copper tube and aluminum fin	Φ12.7	4/6	2.0	2540×1016
17.7A	Copper tube and aluminum fin	Φ12.7	4/6	2.0	2540×1206.5

5. Customizable ESP

5.1 Suspended type

CB01-TMC	Air volume（m^3/h）	Rows of cooling coil	External static pressure(Pa)						
			80	120	160	200	240	280	320
1.2A	2000	4	0.32	0.32	0.32	0.32	0.32	0.32	
		6	0.32	0.32	0.32	0.32	0.32	0.37	
1.8A	3000	4	0.55	0.75	0.75	0.75	0.75	1.1	1.1
		6	0.75	0.75	0.75	0.75	1.1	1.1	1.1
2.4A	4000	4	1.1	1.1	1.1	1.1	1.1	1.1	1.5
		6	1.1	1.1	1.1	1.1	1.1	1.5	1.5
3A	5000	4	1.1	1.5	1.5	1.5	1.5	2.2	2.2
		6	1.5	1.5	1.5	1.5	2.2	2.2	2.2
3.5A	6000	4	1.5	1.5	1.5	1.5	2.2	2.2	2.2
		6	1.5	1.5	1.5	2.2	2.2	2.2	2.2
4.1A	7000	4	1.5	1.5	2.2	2.2	2.2	2.2	2.2
		6	1.5	2.2	2.2	2.2	2.2	2.2	3
4.7A	8000	4	2.2	2.2	2.2	2.2	2.2	3	3
		6	2.2	2.2	2.2	2.2	3	3	3
5.3A	9000	4	2.2	2.2	2.2	2.2	2.2	3	3
		6	2.2	2.2	2.2	2.2	3	3	3
6.2A	10500	4	3	3	3	3	3	3	4
		6	3	3	3	3	3	4	4
7.1A	12000	4	3	3	3	4	4	4	-
		6	3	3	4	4	4	4	-
8.9A	15000	4	4	4	4	5.5	-	-	5.5
		6	4	4	5.5	5.5	-	-	5.5

Note: Characters in red are standard motor power input in standard ESP, others ESP must be customized.

5.2 Horizontal type

CB01-TMH	Air volume（m³/h）	Rows of cooling coil	Motor power (kW) corresponding to external static pressure (Pa)								
			170	220	270	320	370	420	470	520	570
3A	5000	4		1.1	1.5	1.5	1.5	1.5	2.2		
		6		1.5	1.5	1.5	1.5	2.2	2.2		
3.5A	6000	4		1.5	2.2	2.2	2.2	2.2	2.2		
		6		2.2	2.2	2.2	2.2	2.2	3.0		
4.7A	8000	4		2.2	2.2	2.2	3.0	3.0	3.0		
		6		2.2	2.2	3.0	3.0	3.0	3.0		
6.2A	10500	4		3.0	3.0	3.0	3.0	4.0	4.0		
		6		3.0	3.0	3.0	4.0	4.0	4.0		
8.9A	15000	4		4.0	4.0	5.5	5.5	5.5	5.5	5.5	
		6		4.0	5.5	5.5	5.5	5.5	5.5	7.5	
12.4A	21000	4		5.5	7.5	7.5	7.5	7.5	11.0	11.0	
		6		7.5	7.5	7.5	7.5	11.0	11.0	11.0	
14.2A	24000	4		5.5	7.5	7.5	7.5	11.0	11.0	11.0	
		6		7.5	7.5	7.5	11.0	11.0	11.0	11.0	
17.7A	30000	4		11.0	11.0	11.0	11.0	11.0	15.0	15.0	15.0
		6		11.0	11.0	11.0	11.0	15.0	15.0	15.0	15.0
20.7A	35000	4				11.0	11.0	11.0	15.0	15.0	
		6				11.0	11.0	15.0	15.0	15.0	

Note: Characters in red are standard motor power input in standard ESP, others ESP must be customized.

5.3 Vertical type

CB01-TMV	Air volume（m^3/h）	Rows of cooling coil	Motor power (kW) corresponding to external static pressure (Pa)										
			120	170	220	270	320	370	420	470	520	570	620
1.8A	3000	4	0.55	0.75	0.75	0.75	1.1						
		6	0.75	0.75	0.75	1.1	1.1						
2.4A	4000	4	1.1	1.1	1.1	1.1	1.1	1.5					
		6	1.1	1.1	1.1	1.1	1.5	1.5					
3A	5000	4	1.1	1.1	1.1	1.5	1.5	1.5					
		6	1.1	1.1	1.5	1.5	1.5	1.5					
3.5A	6000	4	1.5	1.5	1.5	2.2	2.2	2.2					
		6	1.5	1.5	2.2	1.5	2.2	2.2					
4.7A	8000	4	2.2	2.2	2.2	2.2	2.2	3.0	3.0				
		6	2.2	2.2	2.2	2.2	3.0		3.0				
6.2A	10500	4	2.2	3.0	3.0	3.0	3.0	3.0	4.0				
		6	3.0	3.0	3.0	3.0	3.0	4.0	4.0				
8.9A	15000	4	3.0	4.0	4.0	4.0	5.5	5.5	5.5	5.5	5.5		
		6	4.0	4.0	4.0	5.5	5.5	5.5	5.5	5.5	7.5		
12.4A	21000	4			5.5	7.5	7.5	7.5	7.5	11.0	11.0		
		6			7.5	7.5	7.5	7.5	11.0	11.0	11.0		
14.2A	24000	4			5.5	7.5	7.5	7.5	11.0	11.0	11.0	11.0	
		6			7.5	7.5	7.5	11.0	11.0	11.0	11.0	11.0	
17.7A	30000	4			11.0	11.0	11.0	11.0	11.0	15.0	15.0	15.0	15.0
		6			11.0	11.0	11.0	11.0	15.0	15.0	15.0	15.0	

Note: Characters in red are standard motor power input in standard ESP, others ESP must be customized.

6. Motor and Fan

6.1 Suspended type

Model – **CB01-TMC**			**1.2A**	**1.8A**	**2.4A**	**3A**	**3.5A**	**4.1A**
Fan	Brand	-	Guke	Yilida				
	Type	-	Centrifugal fan					
	Model	-	YFW230	SYT9-9	SYT10-10	SYT9-7	SYT10-8L	SYT10-10L
Motor	Brand	-	Yufeng	BEIDE				
	Type	-	three-phase asynchronous motor					
	Power supply	-	380~415V-3Ph-50Hz					
	Model	-	-	-	Y(2)90S-4	Y(2)90L-4	Y(2)90L-4	Y(2)100L1-4
	Insulation class	-	F					
	Safe class	-	IP54	IP55				
	Output	W	320	750	1100	1500	1500	2200
	Speed(Hi)	r/min	-	1022	1029	1213	976	1033

Model – **CB01-TMC**			**4.7A**	**5.3A**	**6.2A**	**7.1A**	**8.9A**
Fan	Brand	-	Yilida				
	Type	-	Centrifugal fan				
	Model	-	SYT10-10	SYT12-9	SYT12-9	SYT12-12	SYT15-11
Motor	Brand	-	BEIDE				
	Type	-	three-phase asynchronous motor				
	Power supply	-	380~415V-3Ph-50Hz				
	Model	-	Y(2)100L1-4	Y(2)100L2-4	Y(2)100L2-4	Y(2)112M-4	Y(2)132S-4
	Insulation class	-	F				
	Safe class	-	IP55				
	Output	W	2200	3000	3000	4000	5500
	Speed(Hi)	r/min	1083	1033	1005	1012	913

6.2 Horizontal type

Model – **CB01-TMH**			**3A**	**3.5A**	**4.7A**	**6.2A**	**8.9A**
Fan	Brand	-	Yilida				
	Type	-	Centrifugal fan				
	Model	-	SYT12-9	SYT12-12	SYT15-11	SYT18-13	SYT15-11
Motor	Brand	-	BEIDE				
	Type	-	three-phase asynchronous motor				
	Power supply	-	380~415V-3Ph-50Hz				
	Model	-	Y(2)90S-4	Y(2)90L-4	Y(2)100L1-4	Y(2)100L2-4	Y(2)112M-4
	Insulation class	-	F				
	Safe class	-	IP55				
	Output	W	1100	1500	2200	3000	4000
	Speed(Hi)	r/min	976	965	870	757	903

Model – **CB01-TMH**			**12.4A**	**14.2A**	**17.7A**	**20.7A**
Fan	Brand	-	Yilida			
	Type	-	Centrifugal fan			
	Model	-	SYT18-13	SYT18-18	SYT18-18	SYD500
Motor	Brand	-	BEIDE			
	Type	-	three-phase asynchronous motor			
	Power supply	-	380~415V-3Ph-50Hz			
	Model	-	Y(2)132S-4	Y(2)132S-4	Y(2)160M-4	Y(2)160M-4
	Insulation class	-	F			
	Safe class	-	IP55			
	Output	W	5500	5500	11000	11000
	Speed(Hi)	r/min	769	730	879	733

6.3 Vertical type

Model – **CB01-TMV**			**1.8A**	**2.4A**	**3A**	**3.5A**	**4.7A**
Fan	Brand	-	Yilida				
	Type	-	Centrifugal fan				
	Model	-	SYT9-9	SYT10-10	SYT12-9	SYT12-12	SYT15-11
Motor	Brand	-	BEIDE				
	Type	-	three-phase asynchronous motor				
	Power supply	-	380~415V-3Ph-50Hz				
	Model	-	Y(2)80M2-4	Y(2)90S-4	Y(2)90S-4	Y(2)90L-4	Y(2)100L1-4
	Insulation class	-	F				
	Safe class	-	IP55				
	Output	W	750	1100	1100	1500	2200
	Speed(Hi)	r/min	1137	1152	976	965	870

Model – **CB01-TMV**			**6.2A**	**8.9A**	**12.4A**	**14.2A**	**17.7A**
Fan	Brand	-	Yilida				
	Type	-	Centrifugal fan				
	Model	-	SYT18-13	SYT15-11	SYT18-13	SYT18-18	SYT18-18
Motor	Brand	-	BEIDE				
	Type	-	three-phase asynchronous motor				
	Power supply	-	380~415V-3Ph-50Hz				
	Model	-	Y(2)100L2-4	Y(2)100L2-4	Y(2)132S-4	Y(2)132S-4	Y(2)160M-4
	Insulation class	-	F				
	Safe class	-	IP55				
	Output	W	2200	3000	5500	5500	11000
	Speed(Hi)	r/min	638	757	769	730	916

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