



TOYO-AC

Air Condition Co. LTD
JAPAN Technology

Modular chiller & FCU

TOYO-AC Co.Ltd

WORLD'S FAMILY, COMFORT QUALITY

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WWW.TOYO-AC.COM.CN

Health



Fresh Air Intake

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.



Long-term Filter

The latest long-term filter ensures better air quality. Meanwhile, the cleaning frequency has been decreased, and maintenance is also much easier.



Self-Cleaning

Indoor unit will continue running with special combined mode to blow and dry indoor evaporator after the unit switch off so as to keep clean and healthy.

Comfort



Anti-Cold-Air

When starting the heating operation, the fan speed is regulated automatically from the lowest speed to the preset level. This function can prevent cold air from blowing out at the beginning of the operation, which avoids the discomfort to the user.



Follow Me

Temperature sensor built in the remote control will sense its surrounding temperature, so the unit can achieve accurate and comfortable temperature control just like the air conditioner is following you.



Fast Cooling/Heating

Startup at high frequency increases cooling/heating capacity and reduces time to reach set temperature, thus you can enjoy cooling and heating in seconds.



Auto swing

Distributes cool/warm air to maximum area by moving horizontal and vertical fags automatically.



Independent Dehumidification

With the independent dehumidification function, the unit can efficiently dehumidify the room and give you more comfort.



3D Air Flow

Combine vertical and horizontal auto swing to ensure an even distribution of air flow throughout the room.



Dimmer

Press this button to shut off the display light on the front panel.



Silent

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation.

Reliability



Self-diagnosis Function

Once abnormal operation or parts failure happen, the unit will monitor the failures, the microcomputer of air conditioner will switch off and protect the system automatically when it happens. Meanwhile, the error or protection code will be displayed on the indoor unit.



Low Ambient Cooling

With special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature down to -15°C.



Intelligent Defrosting

Normal defrost function can only be operated in certain time, but Toyo commercial air conditioner's intelligent defrost can start automatically according to the surrounding condition.



Compressor Heating Belt

Auxiliary heating belt can increase compressor oil temperature in winter and prevent defrosting water accumulated, which improves heat transfer efficiency.



No Frosting Chassis

The unique pipeline design makes the temperature on chassis higher than normal units, and it prevents defrosting water accumulated, which improves heat transfer efficiency and solves the drainage problem.



Golden Fin

Effectively prevent bacteria breeding and improve heat transfer efficiency. The unique anti-corrosive golden coating on the condenser can withstand the rain, salty air and other corrosive elements.



Optional Electric Heater

Built-in auxiliary electric heater as option, the heating performance will be more powerful.



Fire-proof Electric Box

Electrical control box adopts new design, which can meet the higher fire safety requirement to prevent the internal fire due to the electric spark accident.

Energy Saving



180° Sine Wave Control

With considerable advantages, DC Inverter 180° sine wave driving technology has much wider range of frequency and voltage, higher energy efficiency, more smooth running and lower noise.



0.5W Standby

Intelligent technology enables Toyo products to cut energy consumption from normal 5W to 0.5W per hour when standby, which counts 90% of saving.



Sleep Mode

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first 2 hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



Hydrophilic aluminum fin

The louvered hydrophilic aluminum foil has improved by more than 10%. There refrigerant inlet and outlet are separated, to ensure the sub-cooling and enhance the cooling capacity.



Full Process By DC Drive

DC control, DC Compressor, DC indoor motor, DC outdoor motor, and DC Electronic expansion valve make low noise and high efficiency.

Convenience



24-hour Timer

Users can turn on or turn off the air conditioner at any time in 24 hours with remote controller or wireless controller.



Built-in Drain Pump

The built-in pump can lift the condensing water 1200 mm upmost from the drainage pan.



Dual side Drainage

Both left and right sides of the indoor unit are possible for drainage hose connection, and it's easy for installation with this function.



Digital Tube Display

Easily for the running parameters checking and more convenient for troubleshooting, digital tube displays work status such as indoor temperature, setting temperature, the mode of operation, etc.



Remote Control

Help users to control the air conditioner easily, you can design your most comfortable settings with this controller.



Wired Control

Help users to control the air conditioner easily, the wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.



Central Control

With the control function of weekly timer, zone (or group) setting etc., the centralized controller can control 64 units with RS 485 wire connection and the central control adapter.



WIFI Control

With the WIFI control, you can easily turn off the air conditioner outside your house via smart device. Furthermore, you can turn it on before you come back. The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.



Washable Filter

The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.



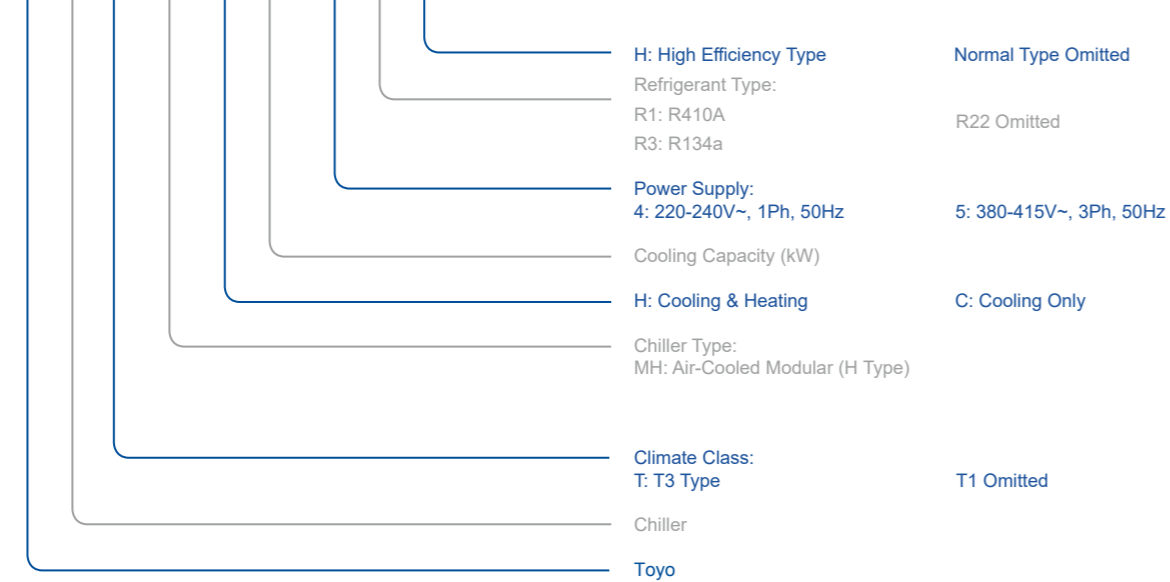
Auto Restart Function

If the air conditioner breaks off unexpectedly due to the power cut, it will restart with the previous setting mode automatically when the power resume.

Nomenclature

Chiller

T C T-MH-C 240 / 5 R3 H



Product Lineup

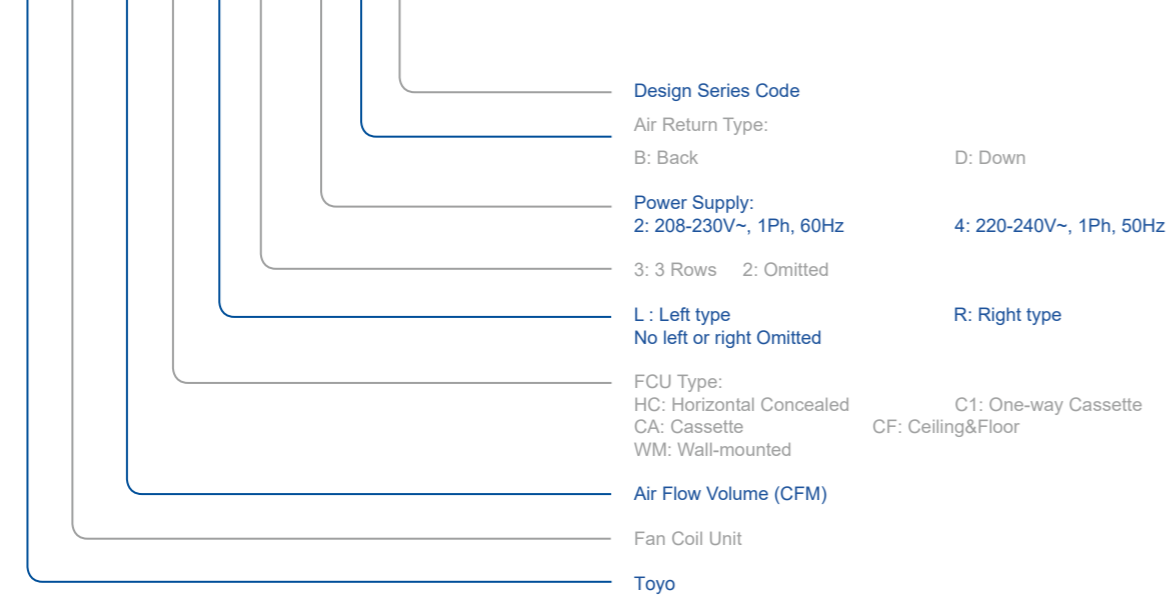
Modular Chiller



H Type
65/130kW

FCU

T FC-220 HC L 3 / 4 D A



FCU	Appearance	Type	200CFM	300CFM	400CFM	500CFM	600CFM	800CFM	1000CFM	1200CFM	1400CFM	Page
One-way Cassette		50HZ	●	●	●	●						12
Cassette		50HZ		●	●	●	●	●	●	●	●	15
Ceiling&Floor		50HZ			●	●	●	●	●	●		18
Horizontal Concealed		50HZ (A6 Series)	●	●	●	●	●	●	●	●	●	21
		50HZ (A6M Series)	●	●	●	●	●	●	●	●	●	21
Wall-mounted		50HZ	●	●	●	●	●	●				25
		60HZ	●	●	●	●	●	●				25

H Type Modular Chiller

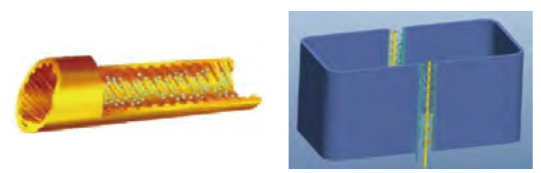


H Type Modular Chiller



High Efficient Round Heat Exchanger

We selected high slimmer inner grooved copper tube in the modular chiller, which has improved more than 10% heat exchanging efficiency than the normal one.



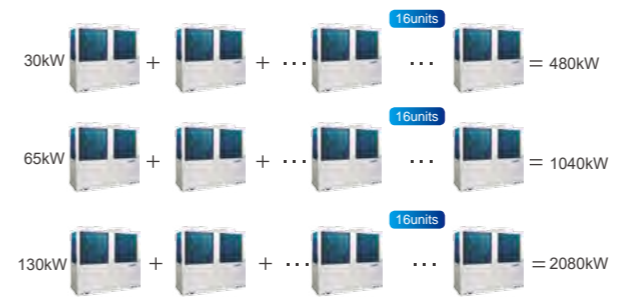
Back-Up Running

As one of outdoor units breaks down, the rest of outdoor units in the same refrigerant system can turn to operation urgently.



Modular Design

Any modular can be the main module in one combination. Different standard models can be flexibly combined together depend on users' requirement, and the maximum number of combinations system can reach 16.



Compact Design

H type design takes less space.



H Type Modular Chiller



Specification-R410A 50Hz

Model name	Outdoor		TCMH-H30/5R1B	TCMH-H65/5R1A	TCMH-H65/5R1B	TCMH-H130/5R1A
Capacity	Cooling/Heating	Btu/h	100000/110000	222000/242000	222000/242000	443600/484500
		kW	30/33	65/71	65/71	130/142
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3	380~415,50,3	380~415,50,3	380~415,50,3
	Cooling/Heating Power Input	kW	9.40/10	19.2/21.5	19.2/21.5	38.4/40.5
	Cooling/Heating Current	A	18.0/18.1	36.3/38.9	36.3/38.9	72.6/73.3
Compressor	Type		Rotary	Hermetic Scroll	Rotary	Hermetic Scroll
	Quantity	Pieces	2	2	4	2
Refrigerant Type			R410a	R410A	R410A	R410A
Air Side Heat Exchanger	Type		High efficiency heat transfer tube series aluminum fin	High efficiency heat transfer tube series aluminum fin	High efficiency heat transfer tube series aluminum fin	High efficiency heat transfer tube series aluminum fin
	Fan Quantity	Pieces	1	2	2	2
	Air Flow Volume	m ³ /h	13500	13500×2	13500×2	27000×2
Water Side Heat Exchanger	Type		High-efficiency tube in tube heat exchanger	High-efficiency shell and tube heat exchanger	High-efficiency shell and tube heat exchanger	High-efficiency shell and tube heat exchanger
	Water Resistance	kPa	45	45	45	55
	Water Flow Volume	m ³ /h	5.16	11.2	11.2	22.4
	Max. Pressure	MPa	1	1	1	1
Dimension (W×D×H)	Net	mm	1000×950×1880	2000×950×1880	2000×950×1880	2200×1100×2270
	Packing	mm	1050×1000×1980	2050×1000×1980	2050×1000×1980	2250×1150×2370
Weight	Net/Gross	kg	310/320	580/595	625/640	945/965
Inlet/Outlet Water Pipe		mm	DN32	DN50	DN50	DN65
Noise		dB(A)	≤65	≤65	≤65	≤68
Safety Protection			High-efficiency shell and tube heat exchanger High/low pressure protection, lack/reverse phase protection, water lack protection, water flow protection, anti-freezing protection, etc.			

Note:

All the above data is tested base on the following working condition:

1. Rated cooling working condition: water flow 0.172 m³/(h·kW), chilled water inlet/outlet temperature 12°C / 7°C, ambient temperature 35°C;
2. Rated heating working condition: water flow 0.172 m³/(h·kW), hot water inlet/outlet temperature 40°C / 45°C, ambient temperature 7°C, WB temperature 6°C;
3. Keep 1m away from the chiller front and 1.5m high when detecting noise level, environmental noise is lower than 30db(A);

As a part of continuous product improvement, we reserves the right to change specifications without notice.

Cooling Capacity And Power Under Different Ambient And Water Outlet Temperature

TCMH-H30/5R1B Cooling capacity and power in cooling mode

Chilled water outlet temperature (°C)	Ambient Temperature(°C)											
	25		30		35		40		47		49	
	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW
5	33.68	8.35	31.62	8.61	29.19	8.73	28.36	10.53	27.01	11.52	26.74	11.63
7	34.95	8.44	33.41	9.14	30	9.4	29.92	10.69	28.5	11.7	28.22	11.82
10	37.13	8.54	35.46	9.21	33.38	10.37	31.64	10.81	30.13	11.83	29.83	11.94
13	38.43	8.63	36.4	9.35	34.66	10.67	33.07	10.92	31.49	11.95	31.18	12.06

TCMH-H65/5R1* Cooling capacity and power in cooling mode

Chilled water outlet temperature (°C)	Ambient Temperature(°C)											
	25		30		35		40		47		49	
	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW
5	66.53	15.42	63.18	16.8	60	18.32	56.98	19.97	54.11	21.76	53.29	22.27
7	69.85	15.57	66.34	16.97	65	19.2	59.83	20.37	56.82	21.98	56.14	22.66
10	73.35	15.73	69.66	17.14	66.15	19.84	62.82	20.49	59.66	22.53	59.13	22.78
13	77.02	15.88	73.14	17.31	69.46	20.02	65.96	20.75	62.64	22.82	58.95	23.06

TCMH-H130/5R1A Cooling capacity and power in cooling mode

Chilled water outlet temperature (°C)	Ambient Temperature(°C)											
	25		30		35		40		47		49	
	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW	Cooling capacity kW	Power consumption kW
5	133.06	30.83	126.36	33.61	123	36.63	113.96	39.93	108.22	43.52	106.58	44.01
7	139.71	31.14	132.68	33.94	130	38.4	119.66	40.33	113.64	43.96	112.28	44.95
10	146.7	31.45	139.31	34.28	132.3	38.57	125.64	40.73	119.32	44.4	118.26	45.36
13	154.03	31.77	146.28	34.63	138.92	39.74	131.92	41.14	125.28	44.84	125.54	45.77

Note:

As a part of continuous product improvement, Toyo reserves the right to change specifications and design without prior notice. The specification subjects to the nameplate of the chiller.

Heating capacity And Power Under Different Ambient And Water Outlet Temperature

TCMH-H30/5R1B Heating capacity and power in heating mode (RH is 90%)

Hot water outlet temperature (°C)	Outdoor DB temperature(°C)									
	-12		-5		0		7		12	
	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW
35	---	---	22.17	10.41	27.46	10.59	33.5	10.86	39.62	11.04
40	---	---	22.89	9.56	28.28	9.69	33	10	40.75	10.14
45	19.22	8.52	23.73	8.72	29.22	8.9	35.92	9.19	42.01	9.29
50	19.79	7.94	24.36	8.13	30.11	8.19	36.71	8.42	43.28	8.66

TCMH-H65/5R1* Heating capacity and power in heating mode (RH is 90%)

Hot water outlet temperature (°C)	Outdoor DB temperature(°C)									
	-12		-5		0		7		12	
	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW
35	39.38	17.17	48.62	17.5	60.03	17.84	73.2	18.18	86.38	18.53
40	38.24	18.58	47.2	18.94	58.28	19.3	72.07	19.68	83.86	20.05
45	---	---	45.83	20.5	56.58	20.89	71	21.5	81.42	21.71
50	---	---	44.49	22.19	54.93	22.62	66.99	23.07	79.05	23.51

TCMH-H130/5R1A Heating capacity and power in heating mode (RH is 90%)

Hot water outlet temperature (°C)	Outdoor DB temperature(°C)									
	-12		-5		0		7		12	
	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW	Heating capacity kW	Power consumption kW
35	79.34	31.42	97.95	32.08	120.92	33.76	147.47	34.45	174.01	35.14
40	77.03	34.24	95.09	35.96	117.4	36.7	143.17	37.44	168.94	38.19
45	---	---	92.32	37.59	113.98	38.89	140	40.5	164.02	41.51
50	---	---	89.63	40.89	110.66	41.35	134.95	43.24	159.24	45.12

Note:

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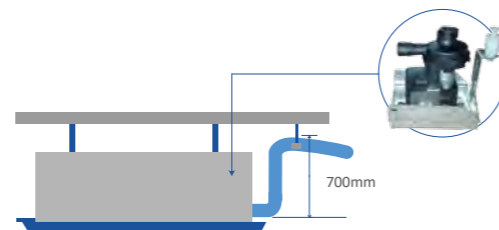


*One-way Cassette
Fan Coil Unit*

One-way Cassette

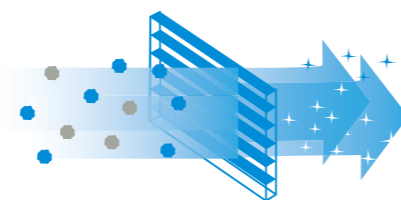


The Built-In Drainage Water Pump Can Lift Condensing Water Up To 700mm High From Drainage Pan.



Special Design With Excellent Heat Insulation Effect To Ensure The Casing Has No Condensation.

Long Term Air Filter: The Wash Period Is Two Times Longer Than Normal Filter And Maintenance Is Free



Fresh Air Inlet Can Intake Outdoor Fresh To Improve Indoor Air Quality.



One-way Cassette



Specification-50Hz

Model		TFC-200C1/4	TFC-300C1/4	TFC-400C1/4	TFC-500C1/4	
Air Volume(H/M/L)	CFM	200/165/106	300/224/153	400/303/200	500/388/253	
	m ³ /h	340/280/180	510/380/260	680/515/340	850/660/430	
Cooling Capacity	H/M/L Speed	W	1800/1500/1390	2700/2460/2057	3600/3000/2479	4500/3715/2920
Heating Capacity	H/M/L Speed	W	2700/1950/1290	4050/2770/1774	5400/3935/2800	6750/4900/3505
Noise Level		dB(A)	≤37	≤39	≤41	≤43
Fan Motor	Fan Quantity		1	1	1	1
	Motor Quantity		1	1	1	1
	Power Input	W	37	52	62	76
Water Flow Volume		m ³ /h	0.31	0.46	0.62	0.77
Hydraulic Resistance		kPa	10.8	10.8	20	20
Max. Working pressure		MPa	1.6	1.6	1.6	1.6
Dimension(W×D×H)	Net(Body)	mm	850x400x235	850x400x235	850x400x235	850x400x235
	Packing(Body)	mm	1040x478x310	1040x478x310	1040x478x310	1040x478x310
	Net(Panel)	mm	1040x470x18	1040x470x18	1040x470x18	1040x470x18
	Packing(Panel)	mm	1055x515x175	1055x515x175	1055x515x175	1055x515x175
Weight	Net/Gross(Body)	kg	22/26	22/26	23/27	23/27
	Net/Gross(Panel)	kg	4/6	4/6	4/6	4/6
Inlet/Outlet Water Pipe				Rc3/4"(DN20)		
Drain Pipe				R3/4"(DN20)		
Stuffing Quantity(20/40/40H)			173/344/396	173/344/396	173/344/396	173/344/396

Note:
 1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5 °C WB, Water inlet/outlet Temp. : 7°C /12°C;
 2. Heating capacity test conditions: Air inlet Temp. : 21°C DB, Water inlet Temp. : 60°C ;
 3. Noise level is tested in full-anechoic room.

Cassette Fan Coil Unit

Fan Coil Unit

Cassette



Standard

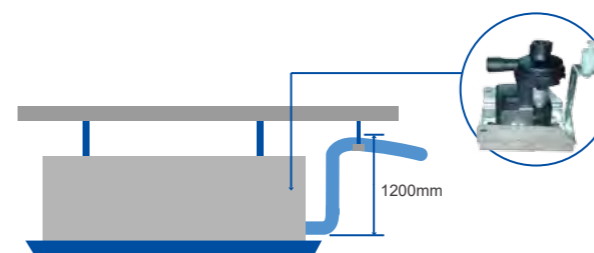


Optional



Built-In Water Drainage Pump

The built-in pump can lift condensing water up to 1200mm high from the drainage pan.



Optional Indoor Units (Round Flow/Four-way Cassette)



Four-way Cassette



Round Flow Cassette

Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Fresh air intake

Optimized Electric Box

Better fire-proof and easy to maintenance.



Cassette



Specification-50Hz

Model		TFC-300CA/4AA	TFC-400CA/4AA	TFC-500CA/4AA	TFC-600CA/4AA
Air Volume(H/M/L)	CFM	300/259/212	400/341/282	500/429/353	600/450/300
	m ³ /h	510/440/360	680/580/480	850/730/600	1020/765/510
Cooling Capacity	H/M/L Speed W	3300/2840/2380	3900/3350/2810	4500/3600/3060	5406/4595/3514
Heating Capacity	H/M/L Speed W	4800/4200/3700	5800/5100/4500	6750/5940/5200	8115/6898/5275
Noise Level	dB(A)	≤39	≤42	≤45	≤45
Fan Motor	Fan Quantity	1	1	1	1
	Motor Quantity	1	1	1	1
	Power Input W	55	62	76	96
Water Flow Volume	m ³ /h	0.62	0.70	0.94	1.15
Hydraulic Resistance	kPa	26	27	29	31
Max.Working pressure	MPa	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net(Body) mm	570×570×260	570×570×260	570×570×260	835×835×250
	Packing(Body) mm	655×655×295	655×655×295	655×655×295	910×910×310
	Net(Panel) mm	650×650×55	650×650×55	650×650×55	950×950×55
	Packing(Panel) mm	710×710×80	710×710×80	710×710×80	1000×1000×100
Weight	Net/Gross(Body) kg	18/20.3	18/20.3	18/20.3	24.5/28
	Net/Gross(Panel) kg	2.2/3.7	2.2/3.7	2.2/3.7	5.2/7.8
Inlet/Outlet Water Pipe			Rc3/4"(DN20)		
Drain Pipe			R3/4"(DN20)		
Stuffing Quantity(20/40/40H)		181/362/414	181/362/414	181/362/414	79/170/182

Specification-50Hz

Model		TFC-800CA/4AA	TFC-1000CA/4AA	TFC-1200CA/4AA	TFC-1400CA/4AA
Air Volume(H/M/L)	CFM	800/600/400	1000/750/500	1200/900/600	1400/1050/700
	m ³ /h	1360/1020/680	1700/1275/850	2040/1530/1020	2380/1785/1190
Cooling Capacity	H/M/L Speed W	7210/6129/4687	9018/7665/5862	10810/9189/7027	12600/10719/8197
Heating Capacity	H/M/L Speed W	10807/9186/7025	13512/11485/8783	16205/13774/10553	18901/16066/12286
Noise Level	dB(A)	≤46	≤48	≤50	≤52
Fan Motor	Fan Quantity	1	1	1	1
	Motor Quantity	1	1	1	1
	Power Input W	134	165	189	225
Water Flow Volume	m ³ /h	1.4	1.68	1.82	2.25
Hydraulic Resistance	kPa	34	36	39	42
Max.Working pressure	MPa	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net(Body) mm	835×835×250	835×835×290	835×835×290	835×835×290
	Packing(Body) mm	910×910×310	910×910×350	910×910×350	910×910×350
	Net(Panel) mm	950×950×55	950×950×55	950×950×55	950×950×55
	Packing(Panel) mm	1000×1000×100	1000×1000×100	1000×1000×100	1000×1000×100
Weight	Net/Gross(Body) kg	25.5/29	26.5/31	28/32.5	28/32.5
	Net/Gross(Panel) kg	5.2/7.8	5.2/7.8	5.2/7.8	5.2/7.8
Inlet/Outlet Water Pipe			Rc3/4"(DN20)		
Drain Pipe			R3/4"(DN20)		
Stuffing Quantity(20/40/40H)		79/170/182	74/156/172	74/156/172	74/156/172

Note:
 1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5°C WB, Water inlet/outlet Temp. : 7°C /12°C ;
 2. Heating capacity test conditions: Air inlet Temp. : 21°C DB, Water inlet Temp. : 60°C ;
 3. Noise level is tested in full-anechoic room.



Ceiling & Floor Fan Coil Unit



Ceiling&Floor



4D Air Swing

Vertical and horizontal swing makes air below to every corner of the room.



Ultra Slim Design

The thickness is only 205mm, save installation space.



Innovative Centrifugal Fan

All units are equipped with 3-speed fan mode, adjusting the air flow rate in accordance with the ceiling height. Innovative centrifugal fan provides larger air volume but lower noise, making the air supply more quietly and smoothly.



Flexible Installation

Can be vertically installed against the wall or horizontally installed under the ceiling.



Ceiling&Floor



Specification-50Hz

Model		TFC-400CF/4	TFC-500CF/4	TFC-600CF/4	TFC-800CF/4	TFC-1000CF/4	
Air Volume(H/M/L)	CFM	400/300/200	500/375/250	600/450/300	800/600/400	1000/750/500	
	m ³ /h	680/510/340	850/638/425	1020/765/510	1360/1020/680	1700/1275/850	
Cooling Capacity	H/M/L Speed	W	3600/3075/2352	4514/3837/2934	5406/4595/3514	7210/6129/4687	
	W					9000/7665/5862	
Heating Capacity	H/M/L Speed	W	5418/4605/3522	6767/5752/4399	8115/6898/5275	10807/9186/7025	
	W					13512/11485/8786	
Noise Level		dB(A)	≤42	≤45	≤48	≤48	
						≤50	
Fan Motor	Fan Quantity		2	2	3	4	
	Motor Quantity		1	1	1	1	
	Power Input	W	78	93	117	190	230
Water Flow Volume		m ³ /h	0.62	0.80	0.98	1.25	1.58
Hydraulic Resistance		kPa	16	20	22	30	44
Max.Working pressure		MPa	1.6	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net(Body)	mm	929×660×205	929×660×205	1280×660×205	1280×660×205	1631×660×205
	Packing(Panel)	mm	1010×720×290	1010×720×290	1360×720×290	1360×720×290	1710×720×290
Weight		Net/Gross(Body) kg	24/27	25/28	30/35	33/38	44/50
Inlet/Outlet Water Pipe					Rc3/4*(DN20)		
Drain Pipe					R3/4*(DN20)		
Stuffing Quantity(20/40/40H)			143/297/329	143/297/329	103/211/236	103/211/236	103/211/236

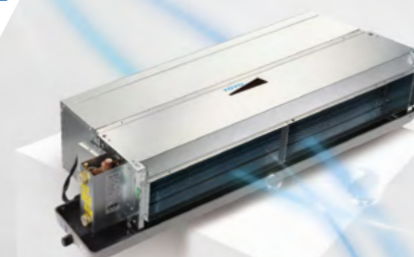
Note:
 1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5°C WB, Water inlet/outlet Temp. : 7°C /12°C ;
 2. Heating capacity test conditions: Air inlet Temp. : 21°C DB, Water inlet Temp. : 60°C;
 3. Noise level is tested in full-anechoic room.

Fan Coil Unit

Horizontal Concealed



Temperature Controller



Horizontal Concealed Fan Coil Unit

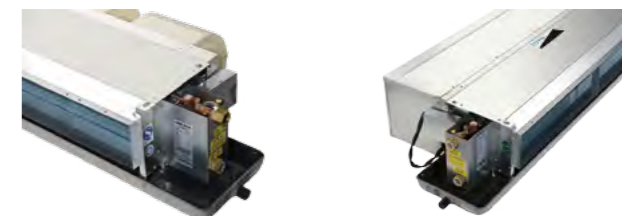
Return Air Plenum And Filter Are Standard

Back air return and down air return can be free choice, the long term air filter ensures better air quality.



Pipe Connecting Direction Free Choice

Left connecting pipe is standard, and right connecting pipe is optional; Left and right drain pipe also can be free choice.



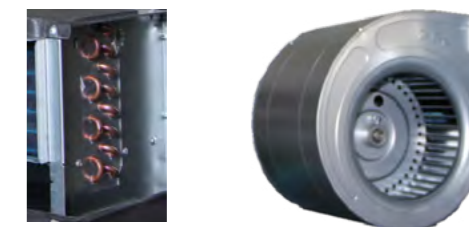
Adjustable ESP

There are two types ESP can be selected for each mode. Standard (30Pa) /Optional (12 Pa)



3 Rows and Metal Fan

3 rows and metal fan wheel are standard for A6M series.



Horizontal Concealed FCU



Specification-50Hz A6 Series

Model	Left (Right)	TFC-200HCL(R)4BA6	TFC-300HCL(R)4BA6	TFC-400HCL(R)4BA6	TFC-500HCL(R)4BA6	TFC-600HCL(R)4BA6
Air Volume(H/M/L)	CFM	200/150/100	300/225/150	400/300/200	500/375/250	600/450/300
	m³/h	340/255/170	510/382/255	680/510/340	850/638/425	1020/765/510
Cooling Capacity	H/M/L Speed W	1800/1537/1175	2700/2305/1763	3600/3075/2352	4500/3837/2934	5400/4595/3514
Heating Capacity	H/M/L Speed W	2700/2303/1761	4050/3460/2646	5400/4605/3522	6750/5752/4399	8100/6898/5275
External Static Pressure	Pa	Standard (30Pa) / Optional (12 Pa)				
Rows Of Coil		2	2	2	2	2
Noise Level	dB(A)	≤40	≤42	≤44	≤46	≤47
Fan Motor	Fan Quantity	1	2	2	2	2
	Motor Quantity	1	1	1	1	1
	Power Input W	44	59	72	87	108
Water Flow Volume	m³/h	0.35	0.61	0.8	0.95	1.08
Hydraulic Resistance	kPa	≤30	≤30	≤30	≤30	≤40
Max.Working pressure	MPa	1.6	1.6	1.6	1.6	1.6
Dimension(WxDxH)	Net mm	694×518×240	894×518×240	894×518×240	1039×518×240	1129×518×240
	Packing mm	715×260×545	915×260×545	915×260×545	1060×260×545	1150×260×545
Net/Gross Weight	kg	12.6/14.6	16.4/18.9	16.8/19.4	18.9/21.9	20.2/23.7
Inlet/Outlet Water Pipe		Rc3/4"(DN20)				
Drain Pipe		R3/4"(DN20)				
Stuffing Quantity(20/40/40H)		286/588/588	238/478/534	238/478/534	198/396/485	190/386/440

Specification-50Hz A6 Series

Model	Left (Right)	TFC-800HCL(R)4BA6	TFC-1000HCL(R)4BA6	TFC-1200HCL(R)4BA6	TFC-1400HCL(R)4BA6
Air Volume(H/M/L)	CFM	800/600/400	1000/750/500	1200/900/600	1400/1050/700
	m³/h	1360/1020/680	1700/1275/850	2040/1530/1020	2380/1785/1190
Cooling Capacity	H/M/L Speed W	7200/6129/4687	9000/7665/5862	10800/9189/7027	12600/10719/8197
Heating Capacity	H/M/L Speed W	10800/9186/7025	13500/11485/8783	16200/13774/10533	18900/16066/12286
External Static Pressure	Pa	Standard (30Pa) / Optional (12 Pa)			
Rows Of Coil		3	3	3	3
Noise Level	dB(A)	≤48	≤50	≤52	≤54
Fan Motor	Fan Quantity	3	4	4	4
	Motor Quantity	1	1	1	1
	Power Input W	156	174	212	253
Water Flow Volume	m³/h	1.39	1.56	1.92	2.25
Hydraulic Resistance	kPa	≤40	≤40	≤40	≤50
Max.Working pressure	MPa	1.6	1.6	1.6	1.6
Dimension(WxDxH)	Net mm	1319×518×240	1619×518×240	1719×518×240	1909×518×240
	Packing mm	1340×260×545	1640×260×545	1740×260×545	1930×260×545
Net/Gross Weight	kg	26/30	31.3/35.8	33.4/38	35.6/41.1
Inlet/Outlet Water Pipe		Rc3/4"(DN20)			
Drain Pipe		R3/4"(DN20)			
Stuffing Quantity(20/40/40H)		154/316/386	125/257/302	124/252/285	108/219/258

Note:
 1. Cooling capacity test conditions:Air inlet Temp. : 27°C DB/19.5°C WB,Water inlet/outlet Temp. : 7°C /12°C ;
 2. Heating capacity test conditions:Air inlet Temp. : 21°C DB,Water inlet Temp. : 60°C;
 3. External Static Pressure :50Pa is optional;
 4. Noise level is tested in full-anechoic room.

Horizontal Concealed FCU



Specification-50Hz A6M Series (3 Row Steel Fan)

Model	Left (Right)	TFC-200HCL(R)4BA6M	TFC-300HCL(R)4BA6M	TFC-400HCL(R)4BA6M	TFC-500HCL(R)4BA6M	TFC-600HCL(R)4BA6M
Air Volume(H/M/L)	CFM	200/150/100	300/225/150	400/300/200	500/375/250	600/450/300
	m³/h	340/255/170	510/382/255	680/510/340	850/638/425	1020/765/510
Cooling Capacity	H/M/L Speed W	1800/1537/1175	2700/2305/1763	3600/3075/2352	4500/3837/2934	5400/4595/3514
Heating Capacity	H/M/L Speed W	2700/2303/1761	4050/3460/2646	5400/4605/3522	6750/5752/4399	8100/6898/5275
External Static Pressure	Pa	Standard (30Pa) / Optional (12 Pa)				
Rows Of Coil		3	3	3	3	3
Noise Level	dB(A)	≤40	≤42	≤44	≤46	≤47
Fan Motor	Fan Quantity	1	2	2	2	2
	Motor Quantity	1	1	1	1	1
	Power Input W	44	59	72	87	108
Water Flow Volume	m³/h	0.35	0.61	0.8	0.95	1.08
Hydraulic Resistance	kPa	≤30	≤30	≤30	≤30	≤40
Max.Working pressure	MPa	1.6	1.6	1.6	1.6	1.6
Dimension(WxDxH)	Net mm	694×518×240	894×518×240	894×518×240	1039×518×240	1129×518×240
	Packing mm	715×260×545	915×260×545	915×260×545	1060×260×545	1150×260×545
Net/Gross Weight	kg	14.1/16.1	18.3/20.8	18.6/21.2	20.8/23.8	22.2/25.7
Inlet/Outlet Water Pipe		Rc3/4"(DN20)				
Drain Pipe		R3/4"(DN20)				
Stuffing Quantity(20/40/40H)		306/648/720	193/514/574	193/514/574	198/396/440	180/396/440

Specification-50Hz A6M Series (3 Row Steel Fan)

Model	Left (Right)	TFC-800HCL(R)4BA6M	TFC-1000HCL(R)4BA6M	TFC-1200HCL(R)4BA6M	TFC-1400HCL(R)4BA6M
Air Volume(H/M/L)	CFM	800/600/400	1000/750/500	1200/900/600	1400/1050/700
	m³/h	1360/1020/680	1700/1275/850	2040/1530/1020	2380/1785/1190
Cooling Capacity	H/M/L Speed W	7200/6129/4687	9000/7665/5862	10800/9189/7027	12600/10719/8197
Heating Capacity	H/M/L Speed W	10800/9186/7025	13500/11485/8783	16200/13774/10533	18900/16066/12286
External Static Pressure	Pa	Standard (30Pa) / Optional (12 Pa)			
Rows Of Coil		3	3	3	3
Noise Level	dB(A)	≤48	≤50	≤52	≤54
Fan Motor	Fan Quantity	3	4	4	4
	Motor Quantity	2	2	2	2
	Power Input W	156	174	212	253
Water Flow Volume	m³/h	1.39	1.56	1.92	2.25
Hydraulic Resistance	kPa	≤40	≤40	≤40	≤50
Max.Working pressure	MPa	1.6	1.6	1.6	1.6
Dimension(WxDxH)	Net mm	1319×518×240	1619×518×240	1719×518×240	1909×518×240
	Packing mm	1340×260×545	1640×260×545	1740×260×545	1930×260×545
Net/Gross Weight	kg	28.9/32.9	36.2/40.7	36.9/41.5	40.8/46.3
Inlet/Outlet Water Pipe		Rc3/4"(DN20)			
Drain Pipe		R3/4"(DN20)			
Stuffing Quantity(20/40/40H)		144/306/340	117/260/290	117/252/280	108/216/240

Note:
 1. Cooling capacity test conditions:Air inlet Temp. : 27°C DB/19.5°C WB,Water inlet/outlet Temp. : 7°C /12°C ;
 2. Heating capacity test conditions:Air inlet Temp. : 21°C DB,Water inlet Temp. : 60°C;
 3. External Static Pressure :50Pa is optional;
 4. Noise level is tested in full-anechoic room.

Wall-mounted Fan Coil Unit



Fan Coil Unit

Wall-mounted



Standard

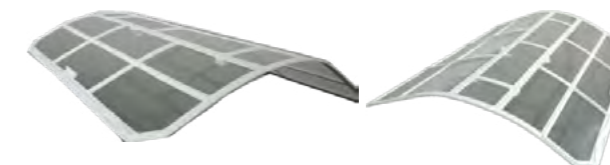


A Variety of Panels

A variety of Panels can be chosen

Long Term Washable Air Filter

The wash period is two times longer than normal filter.



Failure Automatic Detection

If there is a failure, the indicator will flash and the failure code will display on the wired controller, the failure cause is easier to be found.

Two Way Valve & Three Way Valve (Optional)



Two way vale



Three way vale

Wall-mounted



Specification-50Hz 6 Panels LH/LR/LK/LI/LU/LS

Model		TFC-200WM/4A(LH)	TFC-300WM/4A(LH)	TFC-400WM/4A(LH)	TFC-500WM/4A(LH)	TFC-600WM/4A(LH)	TFC-800WM/4A(LH)
Air Volume	H/M/L Speed	CFM 200/150/100	300/225/150	400/300/200	500/375/250	600/450/300	800/600/400
		m ³ /h 340/255/170	510/383/255	680/510/340	850/638/425	1020/765/510	1360/1020/680
Cooling Capacity	H/M/L Speed	W 1808/1537/1175	2712/2305/1763	3618/3075/2352	4514/3837/2934	5406/4595/3514	7210/6129/4687
Heating Capacity	H/M/L Speed	W 2709/2303/1761	4070/3460/2646	5418/4605/3522	6767/5752/4399	8155/6989/5275	10807/9186/7025
Noise Level	dB(A)	≤42	≤42	≤43	≤47	≤47	≤49
Fan Motor	Fan Quantity	1	1	1	1	1	1
	Motor Quantity	1	1	1	1	1	1
	Power Input	W 52	52	62	76	96	134
Water Flow Volume	kg/h	350	610	800	950	1080	1390
Hydraulic Resistance	kPa	30	30	30	30	40	40
Max.Working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net	mm 850×300×198	850×300×198	850×300×198	970×315×235	970×315×235	1100×330×235
	Packing	mm 885×360×270	885×360×270	885×360×270	1010×380×300	1010×380×300	1140×390×300
Net/Gross Weight	kg	11/12.5	11/12.5	12.6/14.5	15/17	16/18	20/23
Inlet/Outlet Water Pipe		Rc1/2"(DN15)					
Drain Pipe		R1/2"(DN15)					
Stuffing Quantity(20/40/40H)		350/735/882	350/735/882	350/735/882	266/558/637	266/558/637	238/495/546

Specification-60Hz 2 Panels LH/LI

Model		TFC-200WM/2A(LH)	TFC-300WM/2A(LH)	TFC-400WM/2A(LH)	TFC-500WM/2A(LH)	TFC-600WM/2A(LH)	TFC-800WM/2A(LH)
Air Volume	H/M/L Speed	CFM 200/150/100	300/225/150	400/300/200	500/375/250	600/450/300	800/600/400
		m ³ /h 340/255/170	510/383/255	680/510/340	850/638/425	1020/765/510	1360/1020/680
Cooling Capacity	H/M/L Speed	W 1808/1537/1175	2712/2305/1763	3618/3075/2352	4514/3837/2934	5406/4595/3514	7210/6129/4687
Heating Capacity	H/M/L Speed	W 2709/2303/1761	4070/3460/2646	5418/4605/3522	6767/5752/4399	8155/6989/5275	10807/9186/7025
Noise Level	dB(A)	≤42	≤42	≤43	≤47	≤47	≤49
Fan Motor	Fan Quantity	1	1	1	1	1	1
	Motor Quantity	1	1	1	1	1	1
	Power Input	W 52	52	62	76	96	134
Water Flow Volume	kg/h	350	610	800	950	1080	1390
Hydraulic Resistance	kPa	30	30	30	30	40	40
Max.Working pressure	MPa	1.6	1.6	1.6	1.6	1.6	1.6
Dimension (WxDxH)	Net	mm 850×300×198	850×300×198	850×300×198	970×315×235	970×315×235	1100×330×235
	Packing	mm 885×360×270	885×360×270	885×360×270	1010×380×300	1010×380×300	1140×390×300
Net/Gross Weight	kg	11/12.5	11/12.5	12.6/14.5	15/17	16/18	20/23
Inlet/Outlet Water Pipe		Rc1/2"(DN15)					
Drain Pipe		R1/2"(DN15)					
Stuffing Quantity(20/40/40H)		350/735/882	350/735/882	350/735/882	266/558/637	266/558/637	238/495/546

Note:
 1. Cooling capacity test conditions: Air inlet Temp. : 27°C DB/19.5°C WB, Water inlet/outlet Temp. : 7°C /12°C ;
 2. Heating capacity test conditions: Air inlet Temp. : 21°C DB, Water inlet Temp. : 60°C ;
 3. External Static Pressure : 50Pa is optional;
 4. Noise level is tested in full-anechoic room.

Chiller Controller

Wired Controller



XK-02D

Fan Coil Unit Controller

Remote Controller



YK-K

Wired Controller



XK-04



XK-05