



Product Catalog

## CLCP Series

# Flexible Air Handling Unit

CLCP 003 ~ 120

2000 ~ 120000CMH





# Introduction

Trane has been manufacturing air handling units throughout the world for the past 40 years. This proven worldwide experience enables us to develop a world class air handling unit, the new Quantum Climate Changer. Quantum Climate Changer is a combination of 4 key elements:

## 1. Globally Integrated Research and Development

A global marketing team comprising air handling specialist from Europe, Asia Pacific and China, Middle East, Africa and South America was formed to provide critical customer and market needs. A global design team comprising design specialist from the Trane Technology Center, USA, Trane Europe and the Trane Air Handling International Development Center in Asia was formed to develop new world class air handling technology.

## 2. World Class Manufacturing Facility

The Quantum Climate Changer manufacturing facility is certified to MS ISO 9001 and is one of the earliest American facilities certified to Demand Flow Technologies (DFT). DFT is a technology that takes quality to the people and the machines that produce the product. In addition, Total Quality Control methodology within DFT brings quality into the manufacturing process at the point where work is being performed, resulting in consistent product quality.

## 3. Performance Assurance and Commitment to Quality

Trane combines comprehensive performance certifications with thorough laboratory testing and manufacturing methods. Together, these elements assure that each Quantum Climate Changer operates predictably and reliably throughout the life of the unit.

## 4. Matching Technologies to Systems

The building industry is continuously evolving and the rate of change is accelerating. Technologies, economic, regulatory and environmental factors are very different now than there were just a few years ago, which will affect the application and installation of the HVAC systems. Recognizing this and utilizing the Trane worldwide air conditioning system experience, the Quantum Climate Changer was developed and packaged to suit most current air conditioning system application needs.

## Purpose

The purpose of this catalogue is to help consulting engineers in the preliminary selection of the Quantum Climate Changer air handling units. Your regional Trane office will assist to provide a computerized selection to confirm or complete your preliminary selection. Where something more special is required, we have full technical support in our regional sales offices and at our factory where non-standard layouts and configurations can be designed to individual requirements.

# Features and Benefits

## Ultra Low Leak Construction

Unique casing design with panel attached to the frame through a selflocking mechanism represented by a wedge and frame, exerting pressure evenly onto the panel and the seal attached to the frame, and hence a better air tight cabinet construction. The casing is designed to meet Eurovent Casing Air Leakage Standard.

## Excellent Condensate Management

Dual pitched sloping drain pan allows for total condensate removal. A unique feature developed to prevent stagnant water in air handling units.

## Environmental Friendly Materials

High-grade aluminium frame is non-corrosive and is easily clean-able. All these features will further enhance indoor air quality.

## Design for Routine Cleaning

Double wall panel construction allows for easy cleaning and disinfecting of the interior surfaces. Panel and frame design allows for easy removal of side panels for maximum access to internal areas.

## High Grade Aluminum Frame

Frame is constructed of extruded aluminum channels for structural rigidity and lightness.

## Injected Polyurethane Foam Panels

All panels are injected with high efficiency polyurethane foam insulation. Foamed panels provide superior thermal resistance properties, and have excellent acoustic and vibration absorption characteristics. In addition, polyurethane foam does not absorb moisture and will not promote fungus growth.

## High Efficiency Performance

Patented heat transfer technology gives maximum cooling and dehumidification. Trane engineered fan systems provide maximum airflow while minimizing vibration, acoustic levels and power consumption.

## Suitable for Retrofit, Renovation and Replacement

Change is inevitable. As time passes, building loads alter, new technologies emerge and codes and standards are revised. The Quantum Climate Changer design lends itself to the needs of the renovation, retrofit and replacement market.

## Sturdy Unit Construction

The Quantum Climate Changer's flexibility is contributed by the structural integrity pentapost and panel construction. That not only means you can stack modules in a space-saving vertical air-handler configuration, but also allows removal of panels for unlimited access. The casing strength is designed to meet European Standard EN 1886:2007.



## Features and Benefits

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### Optimized Coils

Flexibility characterizes the Quantum Climate Changer's broad coil offering. The variety of types, sizes, arrangements and materials enables you to select a coil optimized for the application pressure drop and capacity requirements. Options include:

- 2 to 12 rows, 1/2 inch OD chilled water coils and two separate cooling coil in series to meet high capacity requirement.
- One and two rows, 1/2 inch OD hot water coils.
- Four and six rows, 1/2 inch OD refrigerant coils.
- One row 1/2 inch OD, distributing type steam coils.
- Infinitely variable fin spacing (IVS).
- Stainless steel coil casing (option). Copper fins.
- Coated aluminum fin for corrosion resistance.
- Header drain and vent connections.
- Fully drain able coils at header.

All standard heating and cooling coils are engineered and manufactured at Trane air handling systems manufacturing facility.

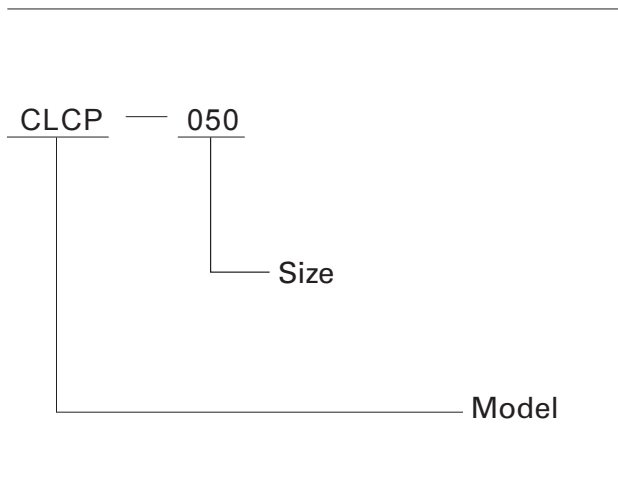
### Performance Assurance and Commitment to Quality

Trane combines comprehensive performance certifications with thorough laboratory testing and manufacturing methods. Together these elements help to ensure that each Quantum Climate Changer operates predictably and reliably throughout the life of the unit. All fans are tested as per ANSI/AMCA 210, ANSI/ASHRAE Standard 51 - Laboratory Method of Testing Fans for Rating and AMCA 300 "Reverberant Room Method for Sound Testing of Fans."

All coil capacities, pressure drops and selection procedures are rated in accordance to ARI Standard 410. All coils are leak and proof tested to min 375 psig.

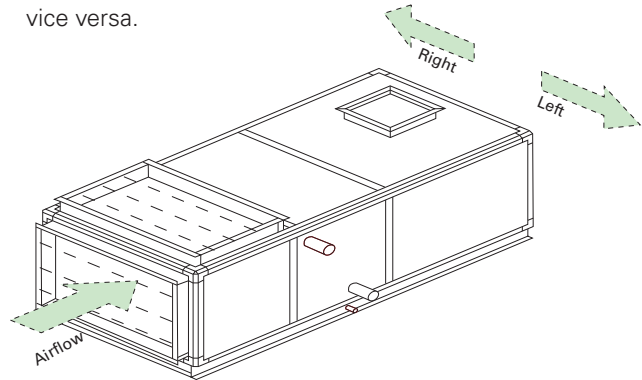
Quantum Climate Changer is manufactured in a facility that is certified to MS ISO9001.

# Quick Selection



## Definition of Unit Direction

Staying opposite to air flow direction, the unit is defined as Left if coil connection & service door is located on the left; vice versa.



Model Size	Nominal Airflow m <sup>3</sup> /h	Coil Face Area m <sup>2</sup>	Nominal Airflow m <sup>3</sup> /h					Width		Height	
			2.0m/s	2.25m/s	2.5m/s	2.75m/s	3.0m/s	25mm	50mm	25mm	50mm
003	2300	0.23	1656	1863	2070	2277	2484	698	748	818	868
004	4000	0.40	2880	3240	3600	3960	4320	1008	1058	818	868
006	5500	0.56	4032	4536	5040	5544	6048	1318	1368	818	868
008	7000	0.73	5256	5913	6570	7227	7884	1628	1678	818	868
010	9000	0.89	6408	7209	8010	8811	9612	1318	1368	1128	1178
012	11000	1.15	8280	9315	10350	11385	12420	1628	1678	1128	1178
014	14000	1.42	10224	11502	12780	14058	15336	1938	1988	1128	1178
016	16000	1.58	11376	12798	14220	15642	17064	1628	1678	1438	1488
020	19000	1.94	13968	15714	17460	19206	20952	1938	1988	1438	1488
025	23000	2.30	16560	18630	20700	22770	24840	1938	1988	1748	1798
030	29000	2.86	20592	23166	25470	28314	30888	1938	1988	2058	2108
035	34000	3.42	24624	27702	30780	33858	36936	2248	2298	2058	2108
040	40000	3.95	28440	31995	35550	39105	42660	2558	2608	2058	2108
045	45000	4.48	32256	36288	40320	44352	48384	2868	2918	2058	2108
050	50000	5.01	36072	40581	45090	49599	54108	3178	3228	2058	2108
060	60000	5.92	42624	47952	53280	58608	63936	-	3228	-	2418
065	65000	6.55	47160	53055	58950	64845	70740	-	3538	-	2418
070	70000	7.18	51969	58158	64620	71082	77544	-	3848	-	2418
080	80000	7.81	56232	63261	70290	77319	84348	-	4158	-	2418
085	85000	8.44	60768	68364	75960	83556	91152	-	4468	-	2418
090	90000	9.07	65304	73467	81630	89793	97956	-	4778	-	2418
095	100000	9.70	69840	78570	87300	96030	104760	-	5088	-	2418
100	105000	11.2	80640	90720	100800	110880	120960	-	5088	-	2728
110	110000	11.8	84960	95580	106200	116820	127440	-	5088	-	2883
120	120000	12.5	90000	101250	112500	123750	130000	-	5088	-	3038

Note: Standard unit base height 120mm. Special design requirement, please contact technical department.

## Quick Selection

Item	Section	Unit model / Specs	Length (mm)	General Options
1	Mixing box/intake section	003-020	310	Manual damper Electric-driven damper Access door Inspection lamp
		025-035	465	
		040-050	620	
		060-080	775	
		085-100	930	
		110-120	1085	
2	Per-filter section	003-120	155	2" flat washable per-filter Bag filter (variable specs) Pressure differential gauge
3	Secondary filter section	003-120	465	
4	Flat + Bag Filter section	003-120	620	
5	Cooling Coil section	003-120 / 2 Row	310	2-12 row cooling coil, Al /copper fin, Drop eliminator Film humidifier Steel / copper header Coil turbulator
		003-120 / 4 Row	465	
		003-120 / 4 Row	465	
		003-120 / 6 Row	465	
		003-120 / 8-12 Row	620	
6	Hot water coil section	003-120 / 1 Row	310	1-4 row heating coil, Al/ copper fin, Steel / copper header Coil turbulator
		003-120 / 2 Row	310	
		003-120 / 4 Row	465	
7	Steam coil section	003-120	310	2 Row steam coil
8	Electric heater section	003-120	465	Electric heater power, heater stage
9	Steam humidifier section	003-120	775	Manual operation, On/off control modulating control
10	Film humidifier section	003-120	155	Efficiency: 40% or 60% (Mounted behind coil)
			310	Efficiency: 80% or 90% (Mounted behind coil) Efficiency: 40% or 60% (Mounted separately)
			465	Efficiency: 80% or 90% (Mounted separately)
11	High-pressure atomizing humidifier section (include drop eliminator)	003-120	1240	
12	Fan section	003-120	775-2790	FC/BC/AF/Plug Fan
13	Sound Attenuator section	465-1240	465-1240	Section length per custom requirements
14	Hi-capacity filter section	003-120	620	Pressure differential gauge
15	Access section	003-120	465/620	Latched door
				Hinged door Pressure differential gauge
16	Supply airflow section	003-020	310	Manual damper Electric-driven damper Access door Inspection lamp
		025-035	465	
		040-050	620	
		060-080	775	
		085-100	930	
		110-120	1085	
17	Heat wheel section	003-120	620	High or standard efficiency

Note: All heat recovery systems, plenum fan, sound attenuator and non TRANE coil are non EUROVENT certified.

# Cooling Coil Performance Table

## Mixed air condition

Model Size	Nominal Airflow m <sup>3</sup> /h	4 Rows					6 Rows			
		Total Cap. kW	Sensible Cap. kW	APD Pa	WFR L/S	WPD kPa	Coil type	Total Cap. kW	Sensible Cap. kW	APD Pa
003	2300	6.06	6.05	92.0	0.29	0.3	WL	8.69	8.61	155.6
004	4000	12.75	12.75	95.1	0.61	1.3	WL	23.10	17.96	186.2
006	5500	24.94	21.11	116.2	1.19	5.3	WL	36.42	26.58	185.2
008	7000	35.78	28.44	117.9	1.71	11.5	WL	49.22	35.02	183.8
010	9000	40.92	34.51	121.6	1.95	5.3	WL	59.68	43.50	193.5
012	11000	57.20	45.10	116.2	2.73	11.1	WL	78.41	55.49	181.1
014	14000	75.98	58.52	124.8	3.62	20.7	WL	101.96	71.47	192.8
016	16000	81.83	64.82	126.8	3.90	11.5	WL	112.48	79.95	197.4
020	19000	104.14	79.87	123.1	4.96	19.8	WL	139.43	97.46	190.1
025	23000	129.65	97.99	128.4	6.18	32.6	WL	171.52	119.07	197.4
030	29000	163.07	123.29	131.1	7.77	40.0	WL	215.86	149.92	201.4
035	34000	190.99	144.64	127.4	9.10	36.3	WL	252.89	175.77	195.8
040	40000	229.22	171.80	131.7	10.93	55.0	WL	270.90	195.64	196.0
045	45000	264.18	195.92	130.9	12.59	76.8	WL	313.53	223.76	194.9
050	50000	296.34	218.91	129.9	14.13	42.8	LL	356.06	251.85	194.0
060	60000	312.89	245.53	127.8	14.92	21.2	LL	426.35	301.73	198.3
065	65000	351.15	271.11	125.0	16.74	27.3	LL	472.33	331.40	193.3
070	70000	388.93	296.53	122.7	18.54	34.2	LL	518.11	361.01	189.1
080	80000	443.58	337.54	132.5	21.15	45.2	LL	579.21	406.68	202.3
085	85000	481.78	263.17	129.9	22.97	54.4	LL	609.52	429.83	196.1
090	90000	519.89	388.77	127.7	24.78	64.7	LL	638.27	452.32	190.6
095	100000	575.49	430.14	135.4	27.43	80.5	LL	682.88	491.24	199.3
100	105000	608.19	455.35	115.3	28.99	72.5	LL	730.24	522.29	170.1
110	110000	630.90	474.53	115.0	30.07	63.0	LL	760.36	545.24	169.8
120	120000	658.34	505.24	114.8	22.42	66.4	LL	830.24	594.85	175.2

Model Size	Nominal Airflow m <sup>3</sup> /h	6 Rows					8 Rows			
		WFR L/S	WPD kPa	Coil type	Total Cap. kW	Sensible Cap. kW	APD Pa	WFR L/S	WPD kPa	Coil type
003	2300	0.41	0.7	WL	13.05	10.38	233.6	0.62	1.7	WL
004	4000	1.10	5.0	WL	29.29	20.70	257.4	1.40	9.2	WL
006	5500	1.74	13.5	WL	43.78	29.96	252.0	2.09	22.9	WL
008	7000	2.35	26.8	WL	57.98	39.11	248.8	2.76	44.1	WL
010	9000	2.85	13.6	WL	71.71	49.04	263.2	3.42	23.0	WL
012	11000	3.74	25.6	WL	92.09	61.89	245.0	4.39	41.9	WL
014	14000	4.86	46.4	WL	118.08	79.44	260.1	5.66	75.3	WL
016	16000	5.36	26.7	WL	132.52	89.35	267.1	6.32	44.2	WL
020	19000	6.65	44.5	WL	162.17	108.24	256.5	7.73	72.3	WL
025	23000	8.18	72.0	WL	182.70	125.10	259.9	8.71	26.3	LL
030	29000	10.29	85.2	WL	230.01	157.56	265.3	10.96	32.4	LL
035	34000	12.06	79.4	WL	269.50	184.69	257.8	12.85	22.1	LL
040	40000	12.91	23.3	LL	322.98	219.79	266.1	15.40	33.1	LL
045	45000	14.95	32.6	LL	370.42	250.33	263.9	17.66	45.5	LL
050	50000	16.97	43.9	LL	417.83	280.88	262.2	19.92	60.3	LL
060	60000	20.32	48.9	LL	500.56	336.65	268.1	23.86	67.2	LL
065	65000	22.52	62.3	LL	500.91	368.55	260.9	26.26	84.5	LL
070	70000	24.70	77.6	LL	591.30	396.09	253.4	26.40	89.4	LL
080	80000	26.10	90.0	LL	651.03	441.72	269.3	25.80	89.5	LL
085	85000	25.50	90.0	LL	684.23	466.19	261.1	25.20	89.3	LL
090	90000	24.90	89.7	LL	715.58	489.87	253.8	24.60	89.0	LL
095	100000	24.40	89.8	LL	767.10	532.19	265.4	24.20	89.7	LL
100	105000	24.87	98.3	LL	789.94	552.73	224.4	23.54	68.8	LL
110	110000	25.90	83.2	LL	821.36	576.45	224.0	24.48	58.8	LL
120	120000	28.28	101.8	LL	898.91	629.94	231.1	26.79	71.9	LL

Note: 1. Enter Dry Bulb temperature 27°C, Enter Wet Bulb temperature 19.5°C, chilled Enter/Leaving Water Temperature 7°C/12°C.  
 2. The coil is copper turb Al. fin, 10 Fins per inch.  
 3. If airflow of FPI increase, the total cap. Increase also.  
 4. Underlined data is generated at larger water temperature rise (than 5°C) to leverage water pressure drop.

## Cooling Coil Performance Table

### Fresh air condition

Model Size	Nominal Airflow m <sup>3</sup> /h	4 Rows					6 Rows			
		Total Cap. kW	Sensible Cap. kW	APD Pa	WFR L/S	WPD kPa	Coil type	Total Cap. kW	Sensible Cap. kW	APD Pa
003	2300	18.28	9.56	132.8	0.87	2.2	WL	31.10	13.63	199.3
004	4000	43.78	20.32	136.6	2.09	13.3	WL	60.03	26.46	204.9
006	5500	66.68	30.15	131.2	3.18	33.1	WL	87.70	38.35	196.8
008	7000	89.54	40.03	128.3	4.27	63.9	WL	105.10	46.34	192.4
010	9000	109.21	49.33	137.0	5.21	33.1	WL	143.63	62.78	205.5
012	11000	143.10	63.78	126.3	6.82	61.1	WL	167.36	73.65	189.5
014	14000	162.50	74.28	133.3	7.75	23.2	LL	218.15	95.65	199.9
016	16000	204.50	91.33	137.7	9.75	63.0	WL	240.03	105.80	206.5
020	19000	222.75	101.59	131.4	10.62	30.6	LL	298.22	130.65	197.1
025	23000	278.61	125.96	135.6	13.28	48.7	LL	359.90	157.71	203.4
030	29000	344.76	156.51	138.4	15.70	55.4	LL	430.55	190.10	207.6
035	34000	410.53	185.78	134.5	19.57	38.4	LL	541.69	236.86	201.8
040	40000	494.05	222.29	138.0	23.55	56.9	LL	628.73	275.34	207.0
045	45000	570.47	255.29	136.3	27.19	77.8	LL	679.50	306.03	204.4

Model Size	Nominal Airflow m <sup>3</sup> /h	6 Rows					8 Rows			
		WFR L/S	WPD kPa	Coil type	Total Cap. kW	Sensible Cap. kW	APD Pa	WFR L/S	WPD kPa	Coil type
003	2300	1.43	6.8	WL	37.13	16.25	265.7	1.77	11.6	WL
004	4000	2.86	29.4	WL	70.23	30.47	273.2	3.35	46.4	WL
006	5500	4.18	68.8	WL	92.82	40.42	262.4	4.43	15.0	LL
008	7000	5.01	20.4	LL	123.12	53.42	256.6	5.87	28.5	LL
010	9000	6.85	68.9	WL	151.97	66.17	274.0	7.24	21.5	LL
012	11000	7.98	27.3	LL	195.37	84.70	252.6	9.31	37.6	LL
014	14000	10.40	48.7	LL	252.27	109.28	266.6	12.03	65.8	LL
016	16000	11.44	38.2	LL	281.27	122.03	275.4	13.41	52.9	LL
020	19000	14.22	61.5	LL	336.64	145.97	262.9	14.22	62.8	LL
025	23000	15.70	78.6	LL	405.94	176.07	271.2	15.70	80.2	LL
030	29000	15.70	63.0	LL	488.58	212.77	276.8	15.70	64.1	LL
035	34000	25.82	79.4	LL	614.26	266.05	269.1	27.20	89.7	LL
040	40000	26.60	89.5	LL	706.82	306.55	276.0	26.30	89.6	LL
045	45000	25.80	89.7	LL	784.01	340.38	272.6	25.20	89.6	LL

Note: Entering air temperature 35/28°C (Dry/Wet Bulb); entering & leaving water temperature: 7/12°C.

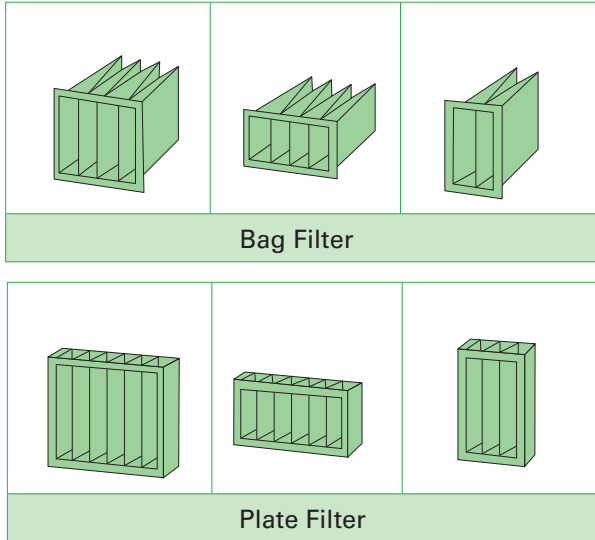


# Fan & Motor Parameter

CLCP	Airflow	Fan Model	Fan Dimension	Motor Power	Internal Pressure Drop	Motor Power	
						@300Pa*	@700Pa*
Model	CMH		mm	kW	Pa	kW	kW
003	2070	KAT 9-7	229	0.55-3	341	1.1	1.5
004	3600	KAT 10-8/BC 225	250/225	0.55-3	363	1.5	3.0
006	5040	FC/BC 250	250	0.55-7.5	370	3.0	4.0**
008	6570	FC/BC 280	280	0.75-7.5	386	3.0	4.0
010	8010	FC/BC 315	315	1.1-7.5	370	4.0	7.5
012	10350	FC/BC 400	400	1.1-15	383	5.5	5.5**
014	12780	FC/BC 400	400	1.5-15	382	5.5	7.5**
016	14220	FC/BC 450	450	1.5-18.5	375	5.5	7.5**
020	17460	FC/BC 500	500	2.2-18.5	378	7.5	11.0**
025	20700	FC/BC 560	560	2.2-22	370	7.5	11.0**
030	25740	FC/BC 560	560	4-30	377	11.0	15.0
035	30780	FC/BC 630	630	4-37	380	15.0	15.0
040	35550	FC/BC 710	710	4-37	381	15.0	22.0**
045	40320	FC/BC 710	710	4-37	382	15.0	22.0**
050	45090	FC/BC 800	800	5.5-45	382	18.5	22.0**
060	53280	FC/BC 800	800	7.5-7.5	382	22.0	30.0
065	58950	FC/BC 900	900	7.5-7.5	379	22.0	30.0**
070	64620	FC/BC 900	900	7.5-7.5	380	30.0	30.0**
080	70290	FC/BC 1000	1000	7.5-7.5	381	30.0	7.0**
085	75960	FC/BC 1000	1000	7.5-7.5	381	30.0	7.0**
090	81630	FC/BC 1000	1000	11-7.5	370	37.0	5.0
095	87300	FC/BC 1000	1000	11-7.5	382	37.0	45.0**
100	105000	AF/BC 1120	1120	15-7.5	330	37.0	45.0**
110	110000	AF/BC 1250	1250	15-7.5	331	37.0	55.0**
120	120000	AF/BC 1250	1250	15-7.5	338	45.0	55.0**

\*Default unit configuration: Mixing + Pre & Bag filter + 6 Row 120FPF Coil + Top Discharge Fan  
 \*\* BC (Backcurved) fan is used.

# Filter Section

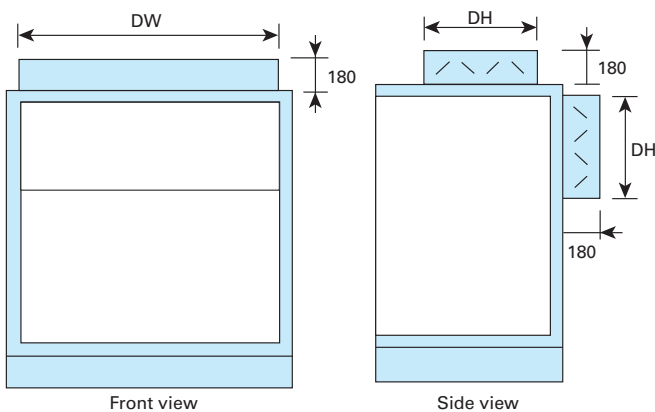


- Plate per-filter efficiency, efficiency  $\geq 20\%$ (G4, @1  $\mu$  m Chinese classification GB12218-89)
- Bag secondary filter, efficiency  $\geq 65\%$ (F6),  $\geq 85\%$ (F7) or  $\geq 95\%$ (F8) (Dust-spot).
- HEPA High efficiency particulate air filter, efficiency  $\geq 99.97\%$ (H12)(MPPS).

## Dimensions & quantity of Plate filter & Bag filter

Model	Back Loading				Side Loading		
	12"x24"	24"x12"	24"x24"	24"x20"	12"x24"	24"x12"	24"x24"
003-0404	2			1			
004-0604	2			1			
006-0804		4		2			
008-1004		4		2			
010-0806		2	2		2	2	
012-1006	1	2	2		1	2	2
014-1206		3	3			3	3
016-1008		2	4		2		4
020-1208			6				6
025-1210		3	6			3	6
030-1212			9				9
035-1412	3		9		3		9
040-1612			12				12
045-1812	3		12		3		12
050-2012			15				15
060-2014		5	15			5	15
065-2214	3	5	15		3	5	15
070-2414		6	18			6	18
080-2614	3	6	18		3	6	18
085-2814		7	21			7	21
090-3014	3	7	21		3	7	21
095-3214		8	24			8	24
100-3216			32				32
110-3217			32				32
120-3218		8	32			8	32

# Damper Position & Dimensions

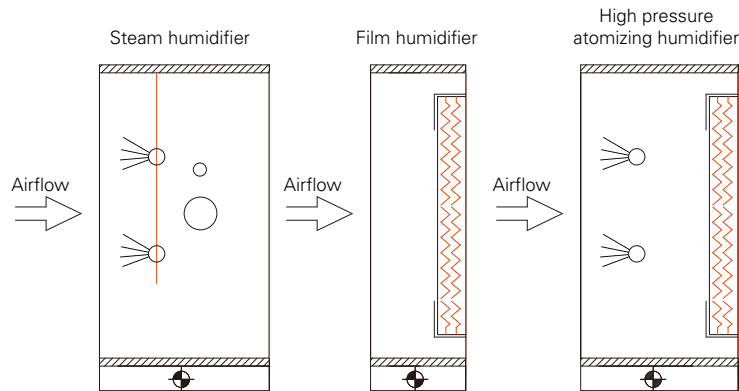


## 25mm & 50mm Casing

Unit Model	DW(mm)	DH(mm)
003-0404	620	310
004-0604	930	310
006-0804	1240	310
008-1004	1550	310
010-0806	1240	310
012-1006	1550	310
014-1206	1860	310
016-1008	1550	310
020-1208	1860	310
025-1210	1860	465
030-1212	1860	465
035-1412	2170	465
040-1612	2480	620
045-1812	2790	620
050-2012	3100	620
060-2014	3100	775
065-2214	3410	775
070-2414	3720	775
080-2614	4030	775
085-2814	4030	930
090-3014	4030	930
095-3214	4030	930
100-3216	4030	930
110-3217	4030	1085
120-3218	4030	1085

Note: The damper sizes are internal sizes.

# Humidifier Section



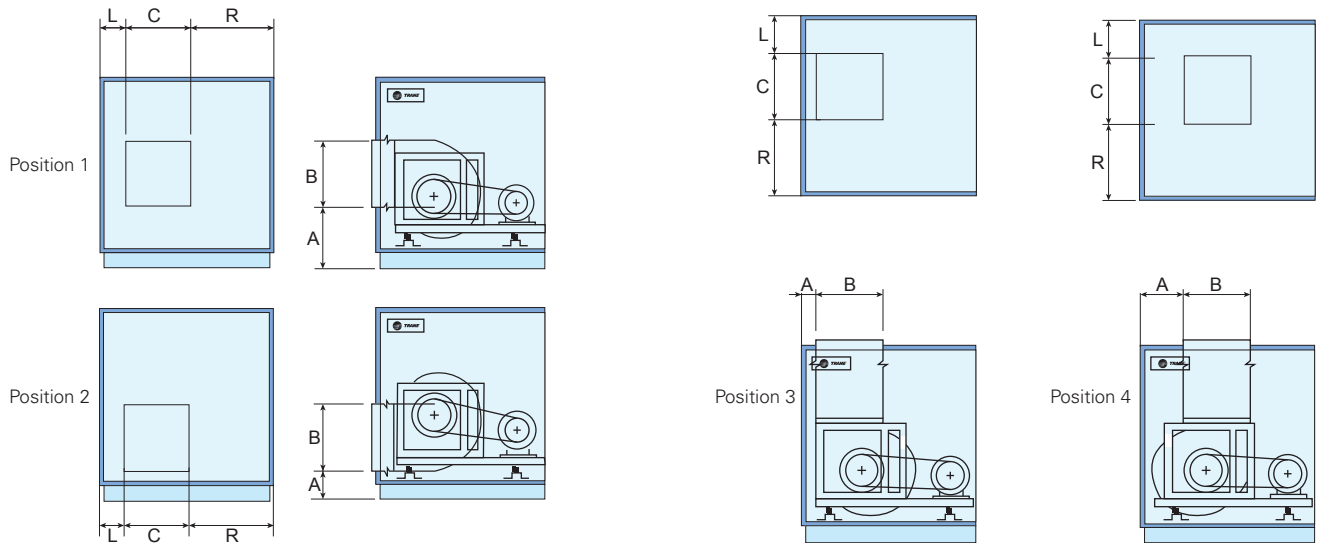
Model Size	Nominal Airflow m <sup>3</sup> /h	Dry steam humidifier kg/h	Wet film humidifier (kg/h)				Recommended High pressure atomizing humidifier (kg/h)
			30%	55%	70%	80%	
003	2300	6.0-20	5.5	10.6	13.4	15.4	5-15
004	4000	8.0-40	9.4	18	23	26.2	5-15
006	5500	20-55	13.1	25.1	31.9	36.5	10-25
008	7000	30-80	17	32.6	41.4	47.4	15-35
010	9000	40-80	20.9	40	51	58.2	25-45
012	11000	60-120	26.9	51.5	65.5	74.9	30-55
014	14000	80-180	32.9	62.9	80.1	91.5	40-70
016	16000	100-200	36.8	70.4	89.6	102.4	50-80
020	19000	120-220	45.1	86.2	109.8	125.4	50-95
025	23000	120-220	55.9	106.9	136.1	155.5	65-120
030	29000	180-300	67.2	128.5	163.5	186.9	75-145
035	34000	280-400	79.4	151.8	193.2	220.8	100-170
040	40000	300-480	91.8	175.6	223.4	255.4	100-200
045	45000	300-480	104.2	199.3	253.7	289.9	130-230
050	50000	300-480	116.6	223.1	283.9	324.5	150-250
060	60000	400-550	137.5	263.1	334.9	382.7	180-300
065	65000	400-550	152	290.8	370.2	423	200-330
070	70000	450-600	166.8	319	406	464	210-350
080	80000	500-700	181.2	346.7	441.3	504.3	240-400
085	85000	550-750	196	374.9	477.1	545.3	260-430
090	90000	600-800	210.5	402.6	512.4	585.6	270-450
095	100000	700-900	224.9	430.3	547.7	625.9	300-500
100	105000	700-900	243.3	465.4	592.3	677.0	300-500
110	110000	700-900	256.0	489.7	623.3	712.4	300-500
120	120000	700-900	273.9	524.1	667.0	762.3	300-500

Note: 1. Assumed Condition: entering air dry bulb temperature:4°C and 15% relative humidity; face velocity = 2.5m/s and humidifier water temperature 20°C.  
 2. Dry steam humidifier is defaulted as 775 mm in length and see below table for unit length of film humidifier.

## Wet film humidifier section length

Humidifying efficiency		40%	60%	75%	85%
Mounted behind coil	mm	155	155	310	310
Mounted separately	mm	310	310	465	465

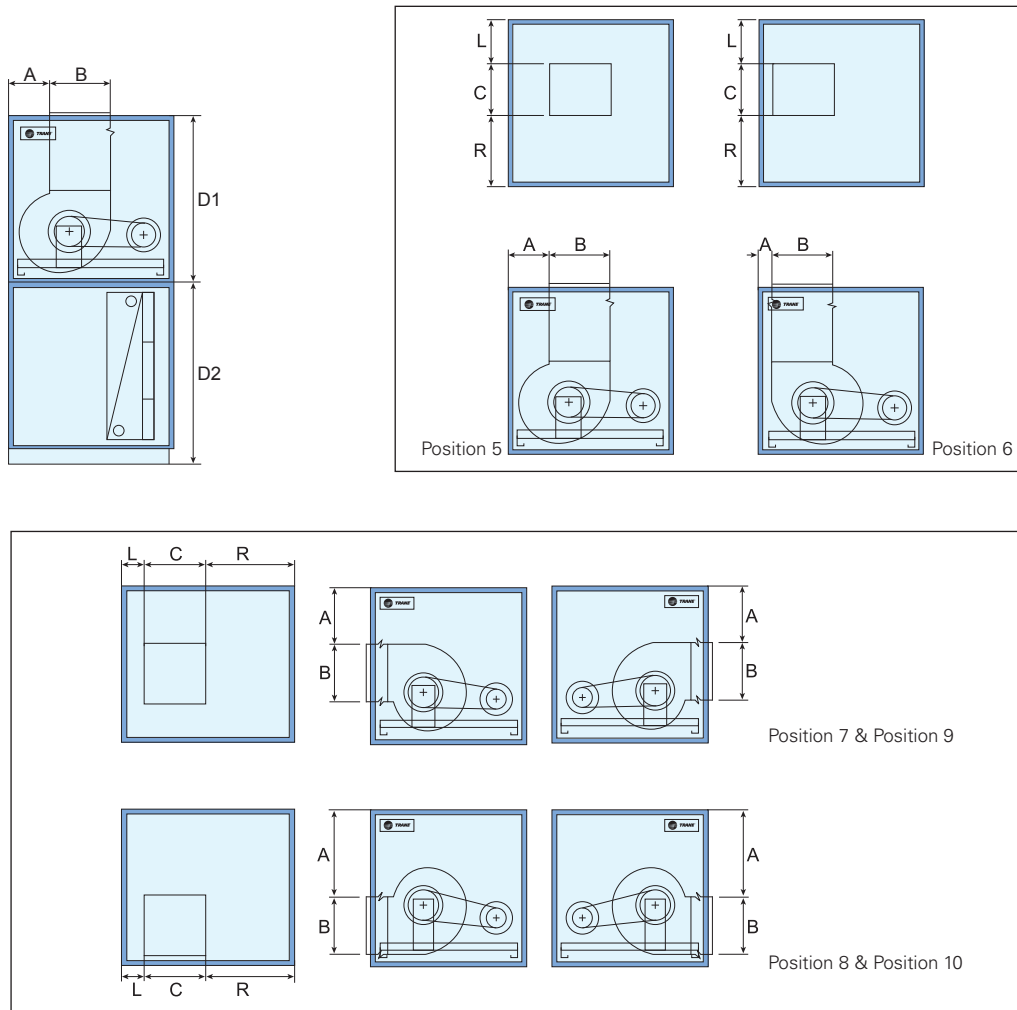
# Horizontal Unit: Fan Outlet Position & Unit Dimension



unit: mm

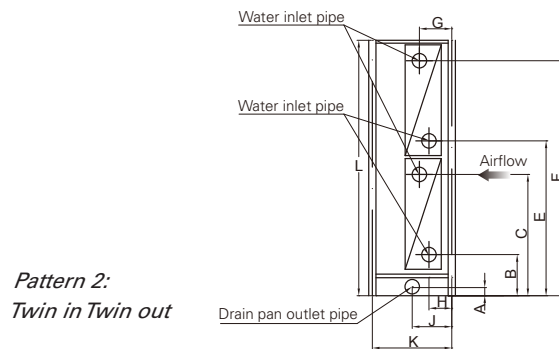
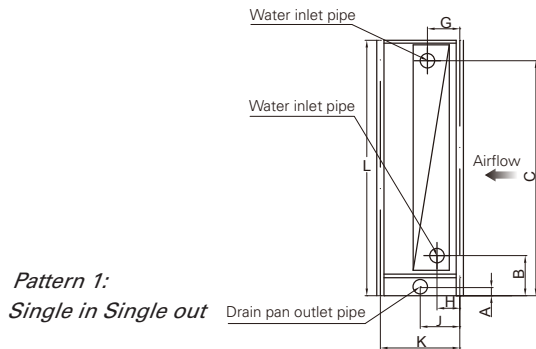
Model Size	Fan outlet position								Motor access door								B	C
	Position 1		Position 2		Position 3		Position 4		Right hand side unit				Left hand side unit					
	A								L		R		L		R			
	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm		
003-0404	357	382	258	283	98	123	193	218	226	251	226	251	226	251	226	251	246	246
004-0604	370	395	258	283	138	163	262	287	194	219	508	533	508	533	194	219	306	306
006-0804	372	397	258	283	136	161	266	291	238	263	740	765	740	765	238	263	340	340
008-1004	334	359	223	248	137	162	285	310	375	400	875	900	875	900	375	400	378	378
010-0806	425	450	257	282	135	160	303	328	200	225	696	721	696	721	200	225	422	422
012-1006	498	523	278	303	136	161	357	382	233	258	871	896	871	896	233	258	524	524
014-1206	498	523	278	303	136	161	357	382	233	258	1181	1206	1181	1206	233	258	524	524
016-1008	526	551	278	303	137	162	385	410	266	291	776	801	776	801	266	291	586	586
020-1208	548	573	278	303	137	162	407	432	305	330	977	1002	977	1002	305	330	656	656
025-1210	649	674	348	373	139	164	440	465	315	340	891	916	891	916	315	340	732	732
030-1212	649	674	348	373	139	164	440	465	315	340	891	916	891	916	315	340	732	732
035-1412	691	716	347	372	139	164	482	507	333	358	1097	1122	1097	1122	333	358	818	818
040-1612	739	764	349	374	139	164	530	555	445	470	1197	1222	1197	1222	445	470	916	916
045-1812	739	764	349	374	139	164	530	555	600	625	1352	1377	1352	1377	600	625	916	916
050-2012	802	827	355	380	139	164	586	611	641	666	1513	1538	1513	1538	641	666	1024	1024
060-2014	-	827	-	380	-	164	-	611	-	666	-	1538	-	1538	-	666	1024	1024
065-2214	-	878	-	374	-	164	-	668	-	735	-	1655	-	1655	-	735	1148	1148
070-2414	-	878	-	374	-	164	-	668	-	890	-	1810	-	1810	-	890	1148	1148
080-2614	-	901	-	376	-	166	-	691	-	895	-	1979	-	1979	-	895	1284	1284
085-2814	-	901	-	376	-	166	-	691	-	1050	-	2134	-	2134	-	1050	1284	1284
090-3014	-	901	-	376	-	166	-	691	-	1205	-	2289	-	2289	-	1205	1284	1284
095-3214	-	901	-	376	-	166	-	691	-	1360	-	2444	-	2444	-	1360	1284	1284
100-3216	-	968	-	376	-	166	-	764	-	1359	-	2289	-	2289	-	1359	1440	1440
110-3217	-	968	-	376	-	166	-	764	-	1308	-	2238	-	2238	-	1308	1440	1440
120-3218	-	1118	-	376	-	166	-	914	-	1308	-	2238	-	2238	-	1308	1542	1542

# Vertical Unit: Fan Outlet Position & Unit Dimension



Model Size	Fan outlet position						Motor access door								B	C	D1		D2			
	Position 1		Position 2		Position 3		Position 4		Right hand side unit		Left hand side unit		25mm	50mm			25mm	50mm				
	A						L		R		L								R			
	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm							25mm	50mm		
003-0404	257	282	158	183	98	123	193	218	226	251	226	251	226	251	226	251	246	246	698	748	798	848
004-0604	270	295	158	183	138	163	262	287	194	219	508	533	508	533	194	219	306	306	698	748	798	848
006-0804	272	297	158	183	136	161	266	291	238	263	740	765	740	765	238	263	340	340	698	748	798	848
008-1004	234	259	123	148	137	162	285	310	375	400	875	900	875	900	375	400	378	378	698	748	798	848
010-0806	325	350	157	182	135	160	303	328	200	225	696	721	696	721	200	225	422	422	1008	1058	1108	1158
012-1006	398	423	178	203	136	161	357	382	233	258	871	896	871	896	233	258	524	524	1008	1058	1108	1158
014-1206	398	423	178	203	136	161	357	382	233	258	1181	1206	1181	1206	233	258	524	524	1008	1058	1108	1158
016-1008	426	451	178	203	137	162	385	410	266	291	776	801	776	801	266	291	586	586	1318	1368	1418	1468
020-1208	448	473	178	203	137	162	407	432	305	330	977	1002	977	1002	305	330	656	656	1318	1368	1418	1468
025-1210	549	574	248	273	139	164	440	465	315	340	891	916	891	916	315	340	732	732	1628	1678	1728	1778
030-1212	549	574	248	273	139	164	440	465	315	340	891	916	891	916	315	340	732	732	1938	1988	2038	2088
035-1412	-	616	-	272	-	164	-	507	-	358	-	1122	-	1122	-	358	818	818	-	1988	-	2088
040-1612	-	664	-	274	-	164	-	555	-	470	-	1222	-	1222	-	470	916	916	-	1988	-	2088
045-1812	-	664	-	274	-	164	-	555	-	625	-	1377	-	1377	-	625	916	916	-	1988	-	2088
050-2012	-	727	-	280	-	164	-	611	-	666	-	1538	-	1538	-	666	1024	1024	-	1988	-	2088

# Coil Header Position & Dimensions



unit: mm

Coil Type	Coil Row	Unit Model	G	J	H		
					WL	LL	DL
Cooling Coil	2	003-120	79	155	145	-	-
	4	003-120	94	155	178	178	217
	6	003-120	94	217	232	232	271
	8	003-120	94	279	287	287	326
	10	003-120	94	310	342	342	381
	12	003-120	94	310	397	397	436
Heating Coil	1	003-120	94	-	144	-	-
	2	003-120	78	-	145	-	-
	4	003-120	94	-	178	-	-

Unit Model	A	B		C		E		F		L		K				D (Connection tube diameter)			
		25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm	25mm	50mm	1-2 Row	4-6Row	8Row	10-12 Row	1Row	2Row	4-12Row WL/DL	4-12Row LL
003-0404	60	231	256	711	736	-	-	-	-	798	848	310	434	558	620	40	40	40	65
004-0604	60	231	256	711	736	-	-	-	-	798	848	310	434	558	620	40	40	40	65
006-0804	60	231	256	711	736	-	-	-	-	798	848	310	434	558	620	40	40	40	65
008-1004	60	231	256	711	736	-	-	-	-	798	848	310	434	558	620	40	40	40	65
010-0806	60	228	253	1013	1038	-	-	-	-	1108	1158	310	434	558	620	40	50	50	65
012-1006	60	228	253	1013	1038	-	-	-	-	1108	1158	310	434	558	620	40	50	50	65
014-1206	60	228	253	1013	1038	-	-	-	-	1108	1158	310	434	558	620	40	50	50	65
016-1008	60	242	267	1318	1343	-	-	-	-	1418	1468	310	434	558	620	40	50	65	65
020-1208	60	242	267	1318	1343	-	-	-	-	1418	1468	310	434	558	620	40	50	65	65
025-1210	60	252	277	1614	1639	-	-	-	-	1728	1778	310	434	558	620	40	50	65	65
030-1212	60	228	253	1053	1078	1124	1149	1942	1967	2038	2088	310	434	558	620	40	50	50	65
035-1412	60	228	253	1053	1078	1124	1149	1942	1967	2038	2088	310	434	558	620	40	50	50	65
040-1612	60	228	253	1053	1078	1124	1149	1942	1967	2038	2088	310	434	558	620	40	50	50	65
045-1812	60	228	253	1053	1078	1124	1149	1942	1967	2038	2088	310	434	558	620	40	50	50	65
050-2012	60	228	253	1053	1078	1124	1149	1942	1967	2038	2088	310	434	558	620	40	50	50	65
060-2014	60	-	277	-	1229	-	1344	-	2264	-	2398	310	434	558	620	40	50	65	65
065-2214	60	-	277	-	1229	-	1344	-	2264	-	2398	310	434	558	620	40	50	65	65
070-2414	60	-	277	-	1229	-	1344	-	2264	-	2398	310	434	558	620	40	50	65	65
080-2614	60	-	277	-	1229	-	1344	-	2264	-	2398	310	434	558	620	40	50	65	65
085-2814	60	-	277	-	1229	-	1344	-	2264	-	2398	310	434	558	620	40	50	65	65
090-3014	60	-	277	-	1229	-	1344	-	2264	-	2398	310	434	558	620	40	50	65	65
095-3214	60	-	277	-	1229	-	1344	-	2264	-	2398	310	434	558	620	40	50	65	65
100-3216	60	-	277	-	1388	-	1503	-	2582	-	2708	310	434	558	620	40	50	65	65
110-3217	60	-	277	-	1515	-	1630	-	2767	-	3018	310	434	558	620	40	50	65	65
120-3218	60	-	277	-	1515	-	1630	-	2767	-	3018	310	434	558	620	40	50	65	65

Note: 1-1/2" external thread connect pipe, PVC drip pipe as optional. Diameter: inside/outside dimension(50mm/58mm)



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