



Product Catalog

CLCP Series

Flexible Air Handling Unit

CLCP 003 ~ 120

2000 ~ 120000CMH



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(Range : CLCP Euro Asia)
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TRANE
TECHNOLOGIES



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

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.

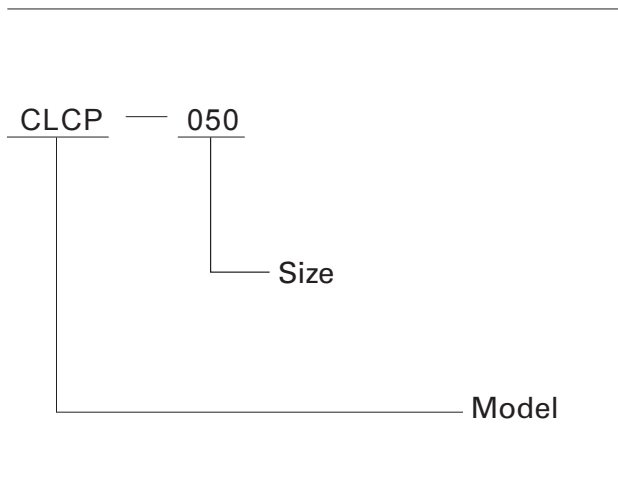
Performance Assurance and Commitment to Quality

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.

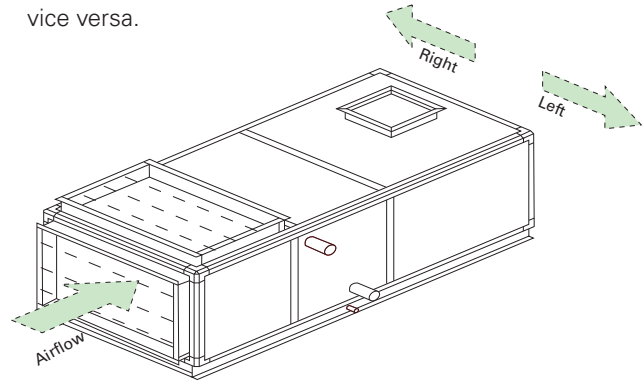
Quantum Climate Changer is manufactured in a facility that is certified to MS ISO9001.

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 ³ /h | Coil Face Area m ² | Nominal Airflow m ³ /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 | 798 | 848 |
| 004 | 4000 | 0.40 | 2880 | 3240 | 3600 | 3960 | 4320 | 1008 | 1058 | 798 | 848 |
| 006 | 5500 | 0.56 | 4032 | 4536 | 5040 | 5544 | 6048 | 1318 | 1368 | 798 | 848 |
| 008 | 7000 | 0.73 | 5256 | 5913 | 6570 | 7227 | 7884 | 1628 | 1678 | 798 | 848 |
| 010 | 9000 | 0.89 | 6408 | 7209 | 8010 | 8811 | 9612 | 1318 | 1368 | 1108 | 1158 |
| 012 | 11000 | 1.15 | 8280 | 9315 | 10350 | 11385 | 12420 | 1628 | 1678 | 1108 | 1158 |
| 014 | 14000 | 1.42 | 10224 | 11502 | 12780 | 14058 | 15336 | 1938 | 1988 | 1108 | 1158 |
| 016 | 16000 | 1.58 | 11376 | 12798 | 14220 | 15642 | 17064 | 1628 | 1678 | 1418 | 1468 |
| 020 | 19000 | 1.94 | 13968 | 15714 | 17460 | 19206 | 20952 | 1938 | 1988 | 1418 | 1468 |
| 025 | 23000 | 2.30 | 16560 | 18630 | 20700 | 22770 | 24840 | 1938 | 1988 | 1728 | 1778 |
| 030 | 29000 | 2.86 | 20592 | 23166 | 25470 | 28314 | 30888 | 1938 | 1988 | 2038 | 2088 |
| 035 | 34000 | 3.42 | 24624 | 27702 | 30780 | 33858 | 36936 | 2248 | 2298 | 2038 | 2088 |
| 040 | 40000 | 3.95 | 28440 | 31995 | 35550 | 39105 | 42660 | 2558 | 2608 | 2038 | 2088 |
| 045 | 45000 | 4.48 | 32256 | 36288 | 40320 | 44352 | 48384 | 2868 | 2918 | 2038 | 2088 |
| 050 | 50000 | 5.01 | 36072 | 40581 | 45090 | 49599 | 54108 | 3178 | 3228 | 2038 | 2088 |
| 060 | 60000 | 5.92 | 42624 | 47952 | 53280 | 58608 | 63936 | - | 3228 | - | 2398 |
| 065 | 65000 | 6.55 | 47160 | 53055 | 58950 | 64845 | 70740 | - | 3538 | - | 2398 |
| 070 | 70000 | 7.18 | 51969 | 58158 | 64620 | 71082 | 77544 | - | 3848 | - | 2398 |
| 080 | 80000 | 7.81 | 56232 | 63261 | 70290 | 77319 | 84348 | - | 4158 | - | 2398 |
| 085 | 85000 | 8.44 | 60768 | 68364 | 75960 | 83556 | 91152 | - | 4468 | - | 2398 |
| 090 | 90000 | 9.07 | 65304 | 73467 | 81630 | 89793 | 97956 | - | 4778 | - | 2398 |
| 095 | 100000 | 9.70 | 69840 | 78570 | 87300 | 96030 | 104760 | - | 5088 | - | 2398 |
| 100 | 105000 | 11.2 | 80640 | 90720 | 100800 | 110880 | 120960 | - | 5088 | - | 2708 |
| 110 | 110000 | 11.8 | 84960 | 95580 | 106200 | 116820 | 127440 | - | 5088 | - | 2863 |
| 120 | 120000 | 12.5 | 90000 | 101250 | 112500 | 123750 | 130000 | - | 5088 | - | 3018 |

Note: The unit height includes unit base. 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 | 434 | |
| | | 040-050 | 620 | |
| | | 060-080 | 744 | |
| | | 085-100 | 806 | |
| | | 110-120 | 1054 | |
| 2 | Per-filter section | 003-120 | 155 | 2" flat washable per-filter |
| 3 | Secondary filter section | 003-120 | 465 | Bag filter (variable specs) |
| 4 | Flat + Bag Filter section | 003-120 | 620 | Pressure differential gauge |
| 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: 1. All heat recovery systems are non EUROVENT certified.

2. If fan, motor, filter, heating and cooling coil are not selected in the software Eurovent certified, "This component is not included in the software Eurovent certified".

3. The above data is updated periodically, please refer to the selection software.

Cooling Coil Performance Table

Mixed air condition

| Model Size | Nominal Airflow m ³ /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 ³ /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 ³ /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 ³ /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 |

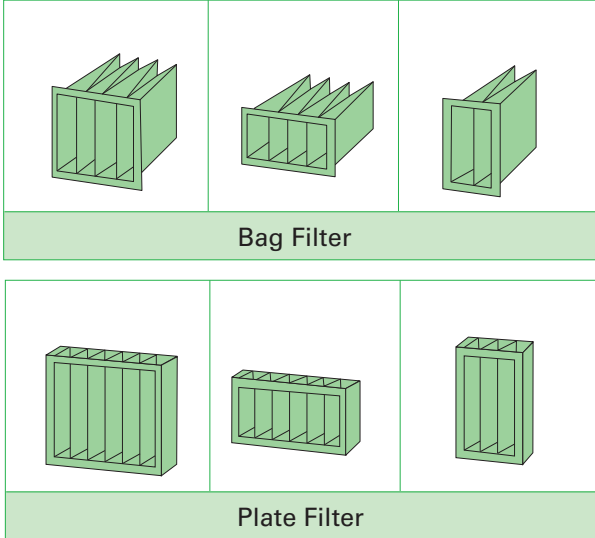
Note: Entering air temperature 35/28°C (Dry/Wet Bulb); entering & leaving water temperature: 7/12°C.

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

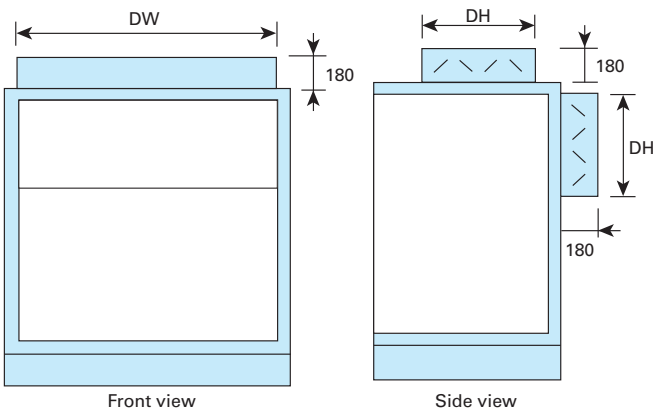


- Plate per-filter efficiency, efficiency $\geq 20\%$ (G4, @1 μm Chinese classification GB12218-89)
- Bag secondary filter, efficiency $\geq 65\%$ (F6), $\geq 85\%$ (F7) or $\geq 95\%$ (F8) (Dust-spot).
- HEPA High efficiency particulate air filter, efficiency $\geq 99.97\%$ (H12)(MPPS).

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" |
| 003-1010 | 2 | | | 1 | | | |
| 004-1510 | 2 | | | 1 | | | |
| 006-2010 | | 4 | | 2 | | | |
| 008-2510 | | 4 | | 2 | | | |
| 010-2015 | | 2 | 2 | | 2 | 2 | |
| 012-2515 | 1 | 2 | 2 | | 1 | 2 | 2 |
| 014-3015 | | 3 | 3 | | | 3 | 3 |
| 016-2520 | | 2 | 4 | | 2 | | 4 |
| 020-3020 | | | 6 | | | | 6 |
| 025-3025 | | 3 | 6 | | | 3 | 6 |
| 030-3030 | | | 9 | | | | 9 |
| 035-3530 | 3 | | 9 | | 3 | | 9 |
| 040-4030 | | | 12 | | | | 12 |
| 045-4530 | 3 | | 12 | | 3 | | 12 |
| 050-5030 | | | 15 | | | | 15 |
| 060-5035 | | 5 | 15 | | | 5 | 15 |
| 065-5535 | 3 | 5 | 15 | | 3 | 5 | 15 |
| 070-6035 | | 6 | 18 | | | 6 | 18 |
| 080-6535 | 3 | 6 | 18 | | 3 | 6 | 18 |
| 085-7035 | | 7 | 21 | | | 7 | 21 |
| 090-7535 | 3 | 7 | 21 | | 3 | 7 | 21 |
| 095-8035 | | 8 | 24 | | | 8 | 24 |
| 100-8040 | | | 32 | | | | 32 |
| 110-804B | | | 32 | | | | 32 |
| 120-8045 | 8 | | 32 | | 8 | | 32 |

Damper Position & Dimensions

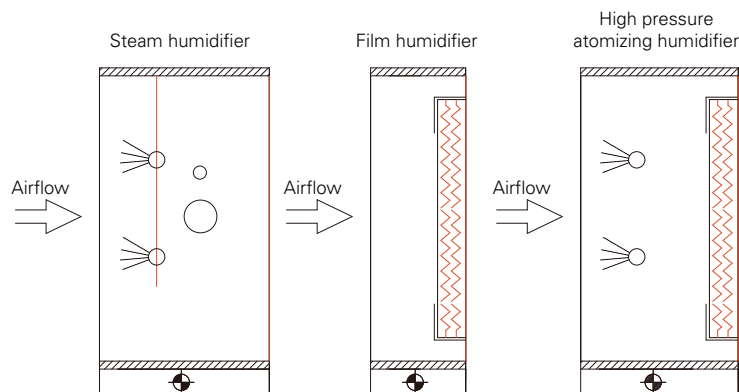


25mm & 50mm Casing

| Unit Model | DW(mm) | DH(mm) |
|------------|--------|--------|
| 003-1010 | 620 | 310 |
| 004-1510 | 930 | 310 |
| 006-2010 | 1240 | 310 |
| 008-2510 | 1550 | 310 |
| 010-2015 | 1240 | 310 |
| 012-2515 | 1550 | 310 |
| 014-3015 | 1860 | 310 |
| 016-2520 | 1550 | 310 |
| 020-3020 | 1860 | 310 |
| 025-3025 | 1860 | 465 |
| 030-3030 | 1860 | 465 |
| 035-3530 | 2170 | 465 |
| 040-4030 | 2480 | 620 |
| 045-4530 | 2790 | 620 |
| 050-5030 | 3100 | 620 |
| 060-5035 | 3100 | 775 |
| 065-5535 | 3410 | 775 |
| 070-6035 | 3720 | 775 |
| 080-6535 | 4030 | 775 |
| 085-7035 | 4030 | 930 |
| 090-7535 | 4030 | 930 |
| 095-8035 | 4030 | 930 |
| 100-8040 | 4030 | 930 |
| 110-804B | 4030 | 1085 |
| 120-8045 | 4030 | 1085 |

Note: The damper sizes are internal sizes.

Humidifier Section



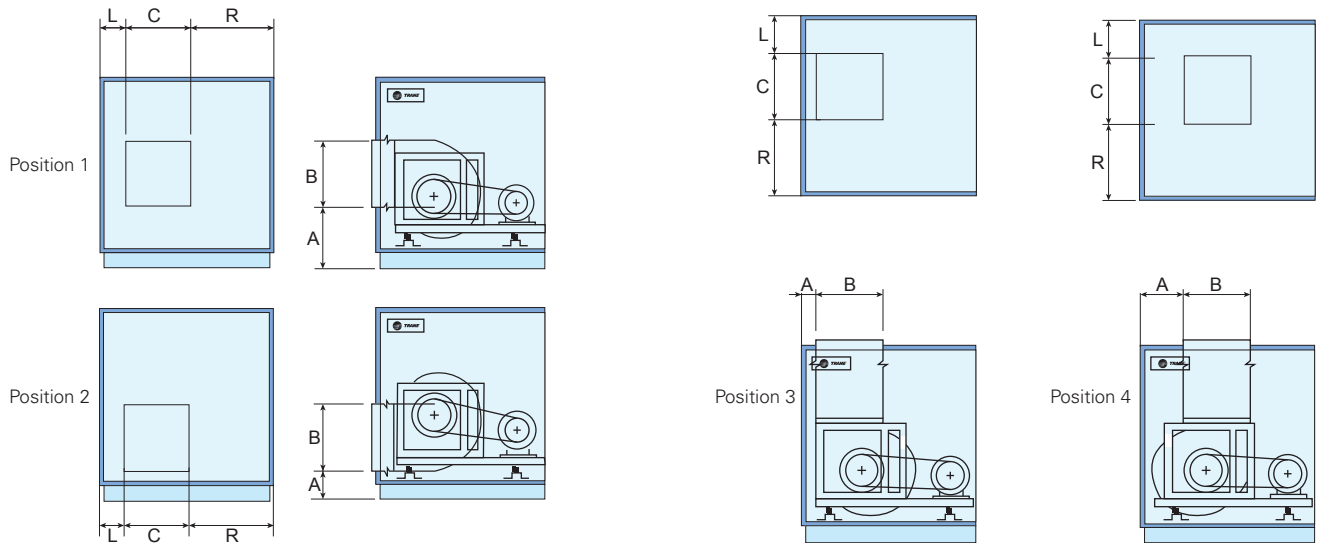
| Model Size | Nominal Airflow m ³ /h | Dry steam humidifier kg/h | Wet film humidifier (kg/h) | | | | Recommended High pressure atomizing humidifier (kg/h) |
|------------|--------------------------------------|---------------------------------|----------------------------|-------|-------|-------|---|
| | | | 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 |

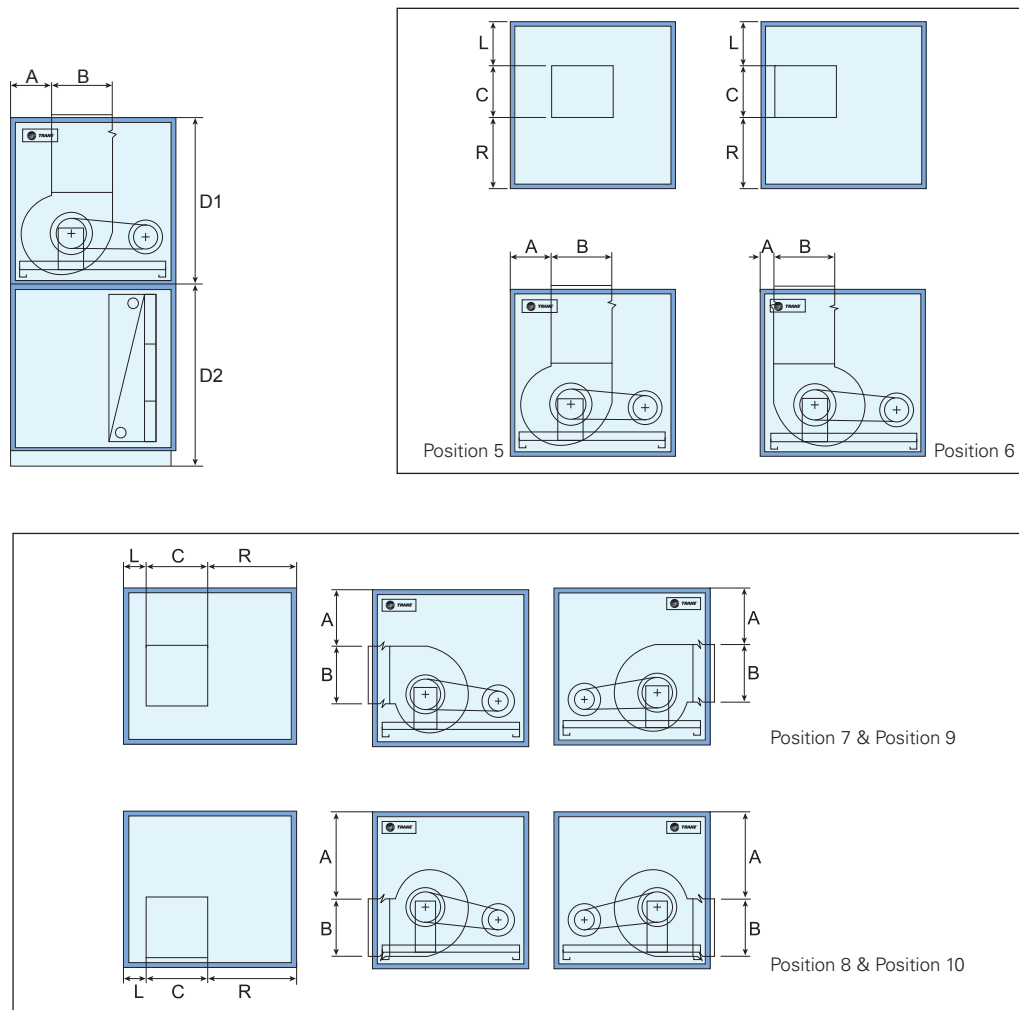
Horizontal Unit: Fan Outlet Position & Unit Dimension



unit: mm

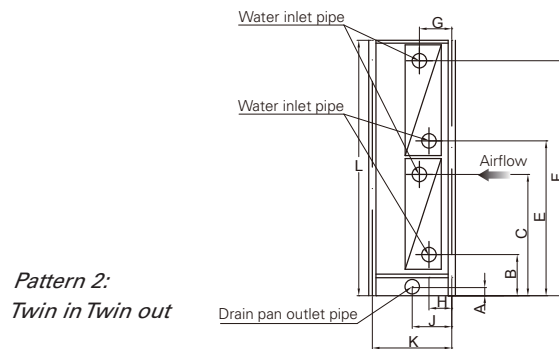
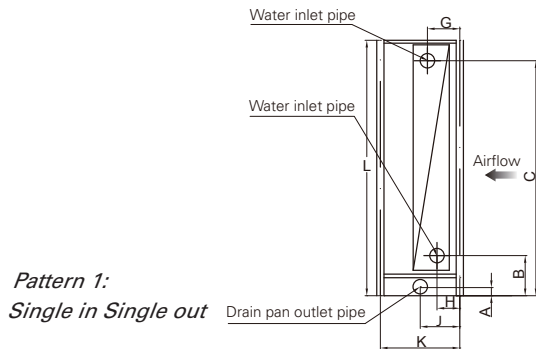
| Model Size | Fan outlet position | | | | | | | | Motor access door | | | | | | | | B | C |
|------------|---------------------|------|------------|------|------------|------|------------|------|----------------------|------|------|------|---------------------|------|------|------|------|------|
| | Position 1 | | Position 2 | | Position 3 | | Position 4 | | Right hand side unit | | | | Left hand side unit | | | | | |
| | A | | A | | A | | A | | L | | R | | L | | R | | | |
| | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | | |
| 003-1010 | 387 | 412 | 262 | 287 | 98 | 123 | 223 | 248 | 224 | 249 | 224 | 249 | 224 | 249 | 224 | 249 | 280 | 250 |
| 004-1510 | 370 | 395 | 258 | 283 | 138 | 163 | 262 | 287 | 194 | 219 | 508 | 533 | 508 | 533 | 194 | 219 | 306 | 306 |
| 006-2010 | 369 | 394 | 258 | 283 | 136 | 161 | 266 | 291 | 238 | 263 | 740 | 765 | 740 | 765 | 238 | 263 | 340 | 340 |
| 008-2510 | 331 | 356 | 223 | 248 | 137 | 162 | 285 | 310 | 375 | 400 | 875 | 900 | 875 | 900 | 375 | 400 | 378 | 378 |
| 010-2015 | 425 | 450 | 257 | 282 | 135 | 160 | 303 | 328 | 448 | 473 | 448 | 473 | 448 | 473 | 448 | 473 | 422 | 422 |
| 012-2515 | 495 | 520 | 278 | 303 | 136 | 161 | 357 | 382 | 233 | 258 | 871 | 896 | 871 | 896 | 233 | 258 | 524 | 524 |
| 014-3015 | 495 | 520 | 278 | 303 | 136 | 161 | 357 | 382 | 388 | 413 | 1026 | 1051 | 1026 | 1051 | 388 | 413 | 524 | 524 |
| 016-2520 | 526 | 551 | 278 | 303 | 137 | 162 | 385 | 410 | 266 | 291 | 776 | 801 | 776 | 801 | 266 | 291 | 586 | 586 |
| 020-3020 | 548 | 573 | 278 | 303 | 137 | 162 | 407 | 432 | 305 | 330 | 977 | 1002 | 977 | 1002 | 305 | 330 | 656 | 656 |
| 025-3025 | 649 | 674 | 348 | 373 | 139 | 164 | 440 | 465 | 315 | 340 | 891 | 916 | 891 | 916 | 315 | 340 | 732 | 732 |
| 030-3030 | 649 | 674 | 348 | 373 | 139 | 164 | 440 | 465 | 315 | 340 | 891 | 916 | 891 | 916 | 315 | 340 | 732 | 732 |
| 035-3530 | 691 | 716 | 347 | 372 | 139 | 164 | 482 | 507 | 333 | 358 | 1097 | 1122 | 1097 | 1122 | 333 | 358 | 818 | 818 |
| 040-4030 | 739 | 764 | 349 | 374 | 139 | 164 | 530 | 555 | 445 | 470 | 1197 | 1222 | 1197 | 1222 | 445 | 470 | 916 | 916 |
| 045-4530 | 739 | 764 | 349 | 374 | 139 | 164 | 530 | 555 | 600 | 625 | 1352 | 1377 | 1352 | 1377 | 600 | 625 | 916 | 916 |
| 050-5030 | 802 | 827 | 355 | 380 | 139 | 164 | 586 | 611 | 641 | 666 | 1513 | 1538 | 1513 | 1538 | 641 | 666 | 1024 | 1024 |
| 060-5035 | - | 827 | - | 380 | - | 164 | - | 611 | - | 666 | - | 1538 | - | 1538 | - | 666 | 1024 | 1024 |
| 065-5535 | - | 878 | - | 374 | - | 164 | - | 668 | - | 735 | - | 1655 | - | 1655 | - | 735 | 1148 | 1148 |
| 075-6035 | - | 878 | - | 374 | - | 164 | - | 668 | - | 890 | - | 1810 | - | 1810 | - | 890 | 1148 | 1148 |
| 080-6535 | - | 901 | - | 376 | - | 166 | - | 691 | - | 895 | - | 1979 | - | 1979 | - | 895 | 1284 | 1284 |
| 085-7035 | - | 901 | - | 376 | - | 166 | - | 691 | - | 1050 | - | 2134 | - | 2134 | - | 1050 | 1284 | 1284 |
| 090-7535 | - | 901 | - | 376 | - | 166 | - | 691 | - | 1205 | - | 2289 | - | 2289 | - | 1205 | 1284 | 1284 |
| 095-8035 | - | 901 | - | 376 | - | 166 | - | 691 | - | 1360 | - | 2444 | - | 2444 | - | 1360 | 1284 | 1284 |
| 100-8040 | - | 968 | - | 376 | - | 166 | - | 764 | - | 1437 | - | 2211 | - | 2211 | - | 1437 | 1440 | 1440 |
| 110-804B | - | 1138 | - | 396 | - | 166 | - | 914 | - | 1308 | - | 2238 | - | 2238 | - | 1308 | 1542 | 1542 |
| 120-8045 | - | 1138 | - | 396 | - | 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 7&9 | | | | Position 8&10 | | | | Position 6 | | | | Position 5 | | | | | | Right hand side unit | | | | Left hand side unit | | | | 25mm | 50mm | 25mm | 50mm |
| | A | | B | | A | | B | | L | | R | | L | | R | | | | L | | R | | | | | | | | | |
| | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | | | 25mm | 50mm | 25mm | 50mm | 25mm | 50mm | | | | | | |
| 003-1010 | 131 | 156 | 256 | 281 | 98 | 123 | 233 | 248 | 224 | 249 | 224 | 249 | 226 | 251 | 226 | 251 | 246 | 246 | 698 | 748 | 798 | 848 | | | | | | | | |
| 004-1510 | 122 | 147 | 234 | 259 | 138 | 163 | 262 | 287 | 194 | 219 | 508 | 533 | 508 | 533 | 194 | 219 | 306 | 306 | 698 | 748 | 798 | 848 | | | | | | | | |
| 006-2010 | 89 | 114 | 200 | 225 | 136 | 161 | 266 | 291 | 238 | 263 | 740 | 765 | 740 | 765 | 238 | 263 | 340 | 340 | 698 | 748 | 798 | 848 | | | | | | | | |
| 008-2510 | 89 | 114 | 197 | 222 | 137 | 162 | 285 | 310 | 375 | 400 | 875 | 900 | 875 | 900 | 375 | 400 | 378 | 378 | 698 | 748 | 798 | 848 | | | | | | | | |
| 010-2015 | 261 | 286 | 429 | 454 | 135 | 160 | 303 | 328 | 448 | 225 | 696 | 721 | 696 | 721 | 200 | 225 | 422 | 422 | 1008 | 1058 | 1108 | 1158 | | | | | | | | |
| 012-2515 | 89 | 114 | 306 | 331 | 136 | 161 | 357 | 382 | 233 | 258 | 871 | 896 | 871 | 896 | 233 | 258 | 524 | 524 | 1008 | 1058 | 1108 | 1158 | | | | | | | | |
| 014-3015 | 89 | 114 | 306 | 331 | 136 | 161 | 357 | 382 | 388 | 258 | 1181 | 1206 | 1181 | 1206 | 233 | 258 | 524 | 524 | 1008 | 1058 | 1108 | 1158 | | | | | | | | |
| 016-2520 | 306 | 331 | 554 | 579 | 137 | 162 | 385 | 410 | 266 | 291 | 776 | 801 | 776 | 801 | 266 | 291 | 586 | 586 | 1318 | 1368 | 1418 | 1468 | | | | | | | | |
| 020-3020 | 214 | 239 | 484 | 509 | 137 | 162 | 407 | 432 | 305 | 330 | 977 | 1002 | 977 | 1002 | 305 | 330 | 656 | 656 | 1318 | 1368 | 1418 | 1468 | | | | | | | | |
| 025-3025 | 347 | 372 | 648 | 673 | 139 | 164 | 440 | 465 | 315 | 340 | 891 | 916 | 891 | 916 | 315 | 340 | 732 | 732 | 1628 | 1678 | 1728 | 1778 | | | | | | | | |
| 030-3030 | 657 | 682 | 958 | 983 | 139 | 164 | 440 | 465 | 315 | 340 | 891 | 916 | 891 | 916 | 315 | 340 | 732 | 732 | 1938 | 1988 | 2038 | 2088 | | | | | | | | |
| 035-3530 | - | 554 | - | 898 | - | 164 | - | 507 | - | 358 | - | 1122 | - | 1122 | - | 358 | 818 | 818 | - | 1988 | - | 2088 | | | | | | | | |
| 040-4030 | - | 408 | - | 798 | - | 164 | - | 555 | - | 470 | - | 1222 | - | 1222 | - | 470 | 916 | 916 | - | 1988 | - | 2088 | | | | | | | | |
| 045-4530 | - | 408 | - | 798 | - | 164 | - | 555 | - | 625 | - | 1377 | - | 1377 | - | 625 | 916 | 916 | - | 1988 | - | 2088 | | | | | | | | |
| 050-5030 | - | 237 | - | 684 | - | 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 |
| 003-1010 | 50 | 211 | 236 | 691 | 716 | - | - | - | - | 798 | 848 | 310 | 434 | 558 | 620 | 40 | 40 | 40 | 65 |
| 004-1510 | 50 | 211 | 236 | 691 | 716 | - | - | - | - | 798 | 848 | 310 | 434 | 558 | 620 | 40 | 40 | 40 | 65 |
| 006-2010 | 50 | 211 | 236 | 691 | 716 | - | - | - | - | 798 | 848 | 310 | 434 | 558 | 620 | 40 | 40 | 40 | 65 |
| 008-2510 | 50 | 211 | 236 | 691 | 716 | - | - | - | - | 798 | 848 | 310 | 434 | 558 | 620 | 40 | 40 | 40 | 65 |
| 010-2015 | 50 | 208 | 233 | 993 | 1018 | - | - | - | - | 1108 | 1158 | 310 | 434 | 558 | 620 | 40 | 50 | 50 | 65 |
| 012-2515 | 50 | 208 | 233 | 993 | 1018 | - | - | - | - | 1108 | 1158 | 310 | 434 | 558 | 620 | 40 | 50 | 50 | 65 |
| 014-3015 | 50 | 208 | 233 | 993 | 1018 | - | - | - | - | 1108 | 1158 | 310 | 434 | 558 | 620 | 40 | 50 | 50 | 65 |
| 016-2520 | 50 | 222 | 247 | 1298 | 1323 | - | - | - | - | 1418 | 1468 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 020-3020 | 50 | 222 | 247 | 1298 | 1323 | - | - | - | - | 1418 | 1468 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 025-3025 | 50 | 232 | 257 | 1594 | 1619 | - | - | - | - | 1728 | 1778 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 030-3030 | 50 | 208 | 233 | 1033 | 1058 | 1104 | 1129 | 1922 | 1947 | 2038 | 2088 | 310 | 434 | 558 | 620 | 40 | 50 | 50 | 65 |
| 035-3530 | 50 | 208 | 233 | 1033 | 1058 | 1104 | 1129 | 1922 | 1947 | 2038 | 2088 | 310 | 434 | 558 | 620 | 40 | 50 | 50 | 65 |
| 040-4030 | 50 | 208 | 233 | 1033 | 1058 | 1104 | 1129 | 1922 | 1947 | 2038 | 2088 | 310 | 434 | 558 | 620 | 40 | 50 | 50 | 65 |
| 045-4530 | 50 | 208 | 233 | 1033 | 1058 | 1104 | 1129 | 1922 | 1947 | 2038 | 2088 | 310 | 434 | 558 | 620 | 40 | 50 | 50 | 65 |
| 050-5030 | 50 | 208 | 233 | 1033 | 1058 | 1104 | 1129 | 1922 | 1947 | 2038 | 2088 | 310 | 434 | 558 | 620 | 40 | 50 | 50 | 65 |
| 060-5035 | 50 | - | 257 | - | 1209 | - | 1324 | - | 2244 | - | 2398 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 065-5535 | 50 | - | 257 | - | 1209 | - | 1324 | - | 2244 | - | 2398 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 070-6035 | 50 | - | 257 | - | 1209 | - | 1324 | - | 2244 | - | 2398 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 080-6535 | 50 | - | 257 | - | 1209 | - | 1324 | - | 2244 | - | 2398 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 085-7035 | 50 | - | 257 | - | 1209 | - | 1324 | - | 2244 | - | 2398 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 090-7535 | 50 | - | 257 | - | 1209 | - | 1324 | - | 2244 | - | 2398 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 095-8035 | 50 | - | 257 | - | 1209 | - | 1324 | - | 2244 | - | 2398 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 100-8040 | 50 | - | 257 | - | 1368 | - | 1483 | - | 2562 | - | 2708 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 110-804B | 60 | - | 277 | - | 1515 | - | 1630 | - | 2767 | - | 3038 | 310 | 434 | 558 | 620 | 40 | 50 | 65 | 65 |
| 120-8045 | 60 | - | 277 | - | 1515 | - | 1630 | - | 2767 | - | 3038 | 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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