



# 39XT

## Air-Handling Unit

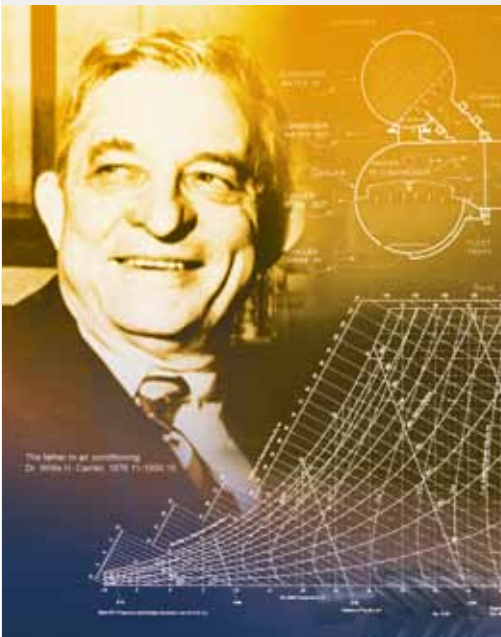
Air flow 2000~200000m<sup>3</sup>/h



## Carrier China

Carrier Corporation is a subsidiary of the United Technologies Corp. (UTC), which ranks the 150th in Fortune Top 500 in 2011 and has its operations in aerospace and building systems industries all over the world. From the time the founder Dr. Carrier invented the first system of modern air conditioning in 1902, Carrier has been the world leader in the air conditioning industry with its products and system solutions supplied to numerous famous buildings, and up to now, the network of distribution cover more than 170 countries all over the world. In 2011, Carrier ranked top in the HVAC industry field with its sales revenue of US \$12 billion.

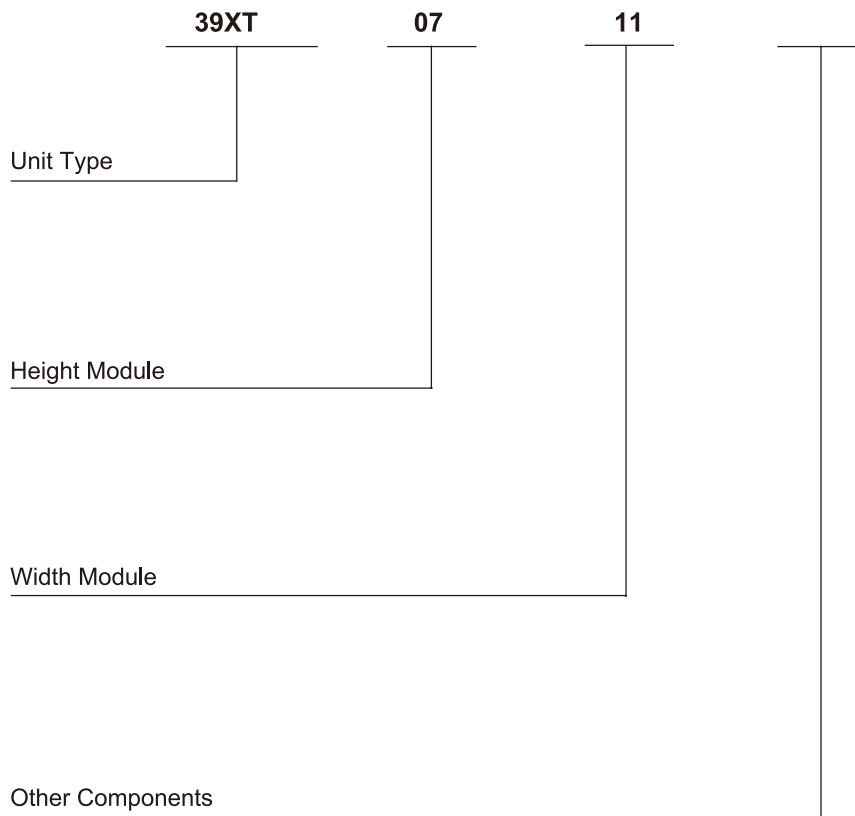
In China, there are 6 Carrier factories which have more than 2500 employees. As the world-class factory, Carrier has a number of technically advanced production lines, manufacturing commercial and residential chillers, compressors and air-side products. A wide range of products are able to meet diversified requirements of different customers. The global R&D center located in Shanghai has the capability of developing several major projects in the same time, with many advanced technical patents awarded to support Carrier stay most competitive in terms of technology advantage in the HVAC industry.



In 1998, Time magazine named Dr. Carrier one of its 20 most influential builders and titans of the 20<sup>th</sup> century.



## Identification & Dimension



**General rule of the height, width and length of a section or unit can be determined with the module concept:**

### **39XT**

(1) Unit Height = Height Module  $\times$  100 + 104 + 100 (base)

(2) Unit Width = Width Module  $\times$  100 + 104

Example: 39XT 0711

07 Height Module

Unit Height:  $7 \times 100 + 104 + 100$  (base) = 904mm

11 Width Module

Unit Width:  $11 \times 100 + 104 = 1,204$ mm

## Air Volume

39XT 2000~200000m<sup>3</sup>/h



## Features

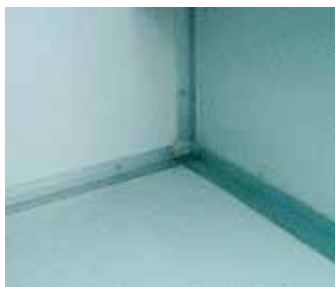
### Corrugated damper flexible to adjust

- Manual or electric mode available. The corrugated linkage damper can be opened flexibly, and can also add an electric controller as required.



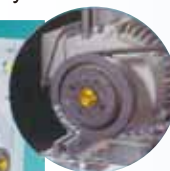
### Unit panel inside

- Treated with a special gap-filling glue, the inner wall is smooth, and free of cutting burr and welding marks. Panel sealing is more ensured.



### Quiet and vibration-free operation

- All fan impellers and belts are subjected to static and dynamic balance calibrations, and overload tests before delivery.



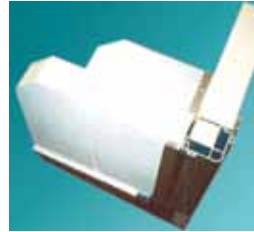
### High-performance coils

- All cooling and heating coils are composed of copper tubes and aluminum foils through mechanical expanders, and provided with a strong galvanized steel frame. The entire header is subjected to special anti-corrosive treatment after welding. Each coil is subjected to the reliability air pressure leak test at 2.8Mpa. Each coil is equipped with a vent valve and a drainage valve to ensure complete discharge. The entire coil is placed on a slide for easy movement.



### The casing adopts a patented construction

- It can withstand severe weather, and possible wear and tear in operation, and avoid any possible damage in shipment or stacking casing. The casing and access door are of a patented double-skin structure to ensure that all performances reach internationally advanced level.



### High airtight construction, double-skin panel

- The high air-tightness of Carrier's double-skin panel for air-handling units is from the special non-toxic and pollution-free ga-filling glue. This feature makes it not only applicable to general commercial air conditioning needs, but also meet stringent needs for industrial air conditioning and clean-room air conditioning.



### Various filters available to meet different needs

- Filters of various filtering levels are available ranging from low efficiency filters (Panel type, efficiency: G4), to medium efficiency filters (Bag type, efficiency: F8), and to high efficiency filters (H13). And some special filters such as activated carbon filters, cartridge filters and destatic filters can also be provided.



High Efficiency Filter



Bag Filter



Panel Filter

### Various filters available to meet different needs

- A standard drain pan may be constructed of stainless steel sheet, with 10mm thick insulation outside the drain pan. The drain pipe is arranged at the bottom of the drain pan to ensure complete drainage and side drainage. The inlet and outlet pipes of the drain pipe and coil are arranged on the same side.



## Europe Standard (EUROVENT)

39XT series unit is an air-handling unit for clean rooms designed with internationally up-to-date designing technology, materials and technology, all technical parameters of which refer to various highest standards of European air handling units.



EUROVENT is a professional certification for ventilation and air conditioning of buildings for human comfort identified all over the world. It is awarded from EUROVENT certification company in France, which is one of the most authoritative organization in the world.

EUROVENT Certification contains EN1886 and EN13053.

EN1886 is the standard for mechanical performance of air-handling unit, including Mechanical Strength, Cold Bridge Factor, Thermal Transmittance, Air Leakage Rate of Casing, Filter Bypass Rate and Acoustic Insulation of Casing.

EN13053 certification primarily targets machine performance testing to ensure that the actually measured values of air flow, air pressure, coil heating/cooling capacity, motor input power and octonary noise are superior to calculated values for selection procedures, i.e. the actual coil cooling capacity, heating capacity, air blow and air pressure are higher than the calculated values, but motor input power and noise are below the calculated values for selection procedures.

### EN1886: Europe standard for air-handling unit (39XT)

| Casing Class | Max. Deflection (mm.m-1) | Withstand Max. Fan Pressure |
|--------------|--------------------------|-----------------------------|
| D1           | 4                        | Yes                         |
| D2           | 10                       | Yes                         |
| D3           | No requirement           | Yes                         |

|           |                       |
|-----------|-----------------------|
| Class TB1 | $0.75 < K_b \leq 1$   |
| Class TB2 | $0.6 < K_b \leq 0.75$ |
| Class TB3 | $0.45 < K_b \leq 0.6$ |
| Class TB4 | $0.3 < K_b \leq 0.45$ |
| Class TB5 | No requirement        |

| Casing air leakage rate | Max. air leakage rate $\text{l/sm}^2$ (-400Pa) | Max. air leakage rate $\text{l/sm}^2$ (+700Pa) |
|-------------------------|--|--|
| L1                      | 0.15   | 0.22   |
| L2                      | 0.44   | 0.63   |
| L3                      | 1.32   | 1.90   |

#### Mechanical Strength of Casing

Max. Deflection refers to the maximum allowable elastic deflection of the unit at  $\pm 1000\text{Pa}$ . Withstand Max. Fan Pressure means that the unit will not suffer from permanent deformation at  $\pm 2500\text{Pa}$ .

#### Thermal Bridge Factor

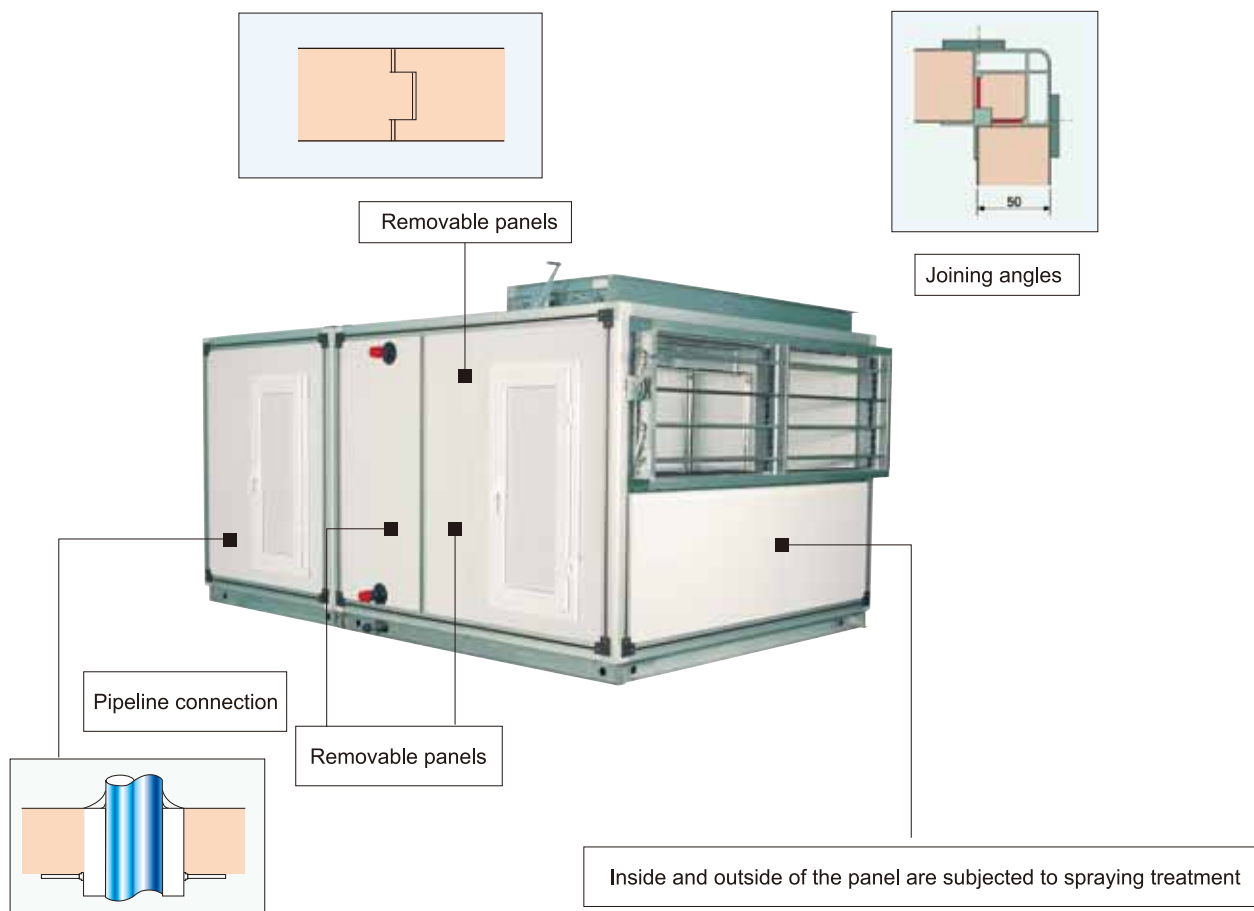
Thermal Bridge Factor  $K_b = T_{\text{min}}/T_{\text{air}}$ , where  $T_{\text{min}}$  refers to the difference between temperature inside the unit and outer surface temperature of the unit, and  $T_{\text{air}}$  the difference between temperature inside the unit and ambient temperature.

#### Air Leakage Rate

The air leakage rate of the unit is measured at 400Pa internal negative pressure and 700Pa internal positive pressure.

## Casing properties

Patent No.: ZL03270350.3



### Excellent airtightness

The casing is made up of panels, frame and sealing strips. The panels are connected accurately by adopting unique embedded abutting method. Type of sealing strips between the frame and the panels, and careful sealing design to all access panels and locations passing-through pipes ensure excellent air tightness of the unit,

### Optimal thermal insulation

Between unit panels, a 50mm thick polyurethane foam insulation material is inserted, and even between aluminum frames are added polyurethane materials, with each junction subject to special heat insulation treatment. The units are ensured to have no condensation in a variety of damp conditions. The outer surface of the panels is treated with special spraying to ensure good fireproof and rust-preventive performance of the unit.

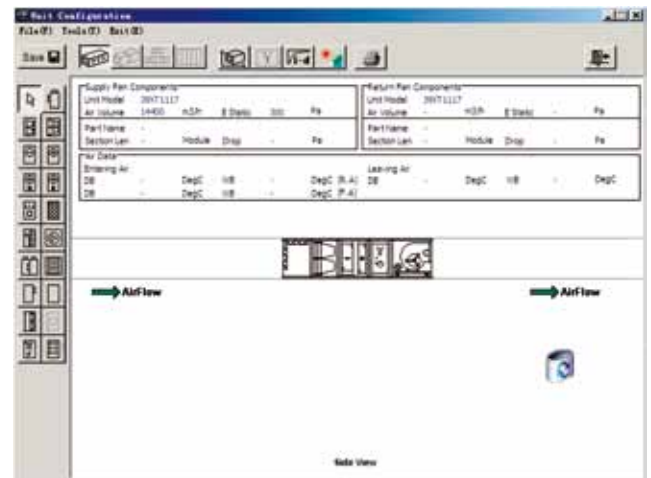
### Robust casing strength

The patented double-skin panel and joining-angle structure enable the units to maintain stable performance in all kinds of harsh environments and prevent the units from permanent deformation under the maximum design air pressure.

## Software

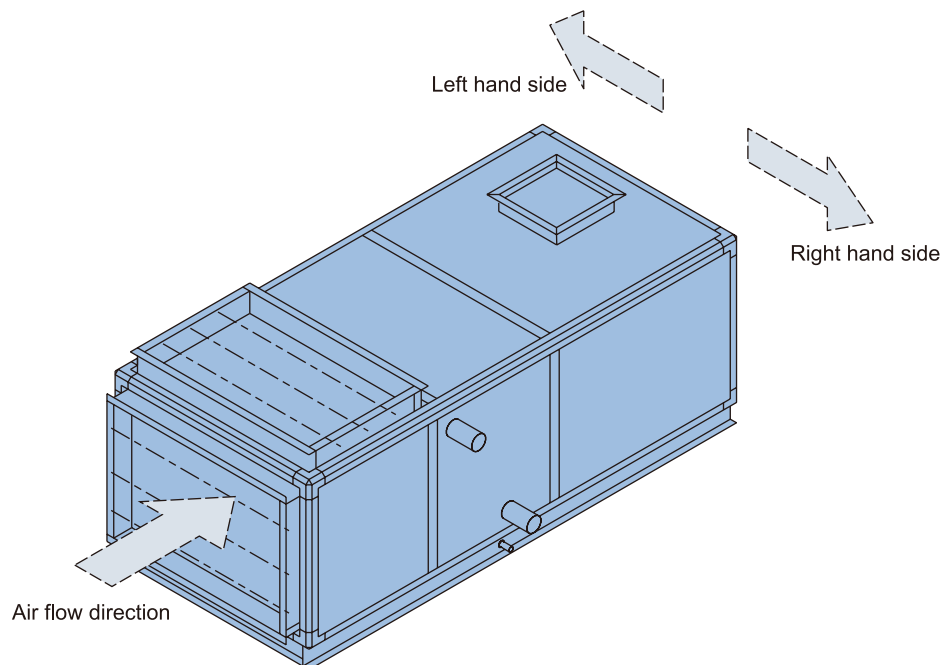
Latest Selection software: AHU-Designer

- Project Management
- Modular Designer
- Free Section Combining
- Section & Option Configuration
- Shipping Configuration
- Performance Calculation
- Quotation
- Drawings & Tech Specification
- Chinese - English interface



## Unit Orientation

Unit Orientation is determined by the location of the inlet and outlet pipes of the coil and the access panel while facing unit in the direction of air flow.





## Quick Selection

| Unit Size | Air Volume        | Coil Face              | Cooling/Heating Coil Capacity (kW) |            |            | Steam Coil Heating Capacity (kW) | Inside Dimension of Damper | 39XT Dimensions |       |
|-----------|-------------------|------------------------|------------------------------------|------------|------------|----------------------------------|----------------------------|-----------------|-------|
|           | m <sup>3</sup> /h | Area (m <sup>2</sup> ) | 2R Heating                         | 4R Heating | 6R Heating | 0.2MPa                           | (mm*mm)                    | Hight           | Width |
| 39XT0608  | 2000              | 0.23                   | 12.96                              | 10.61      | 32.52*     | 30.6                             | 704*322.5                  | 704             | 904   |
| 39XT0609  | 3000              | 0.32                   | 19.25                              | 16.03      | 46.15*     | 36.2                             | 804*322.5                  | 704             | 1004  |
| 39XT0711  | 4000              | 0.46                   | 27.29                              | 23.18      | 63.14      | 61.8                             | 1004*322.5                 | 804             | 1204  |
| 39XT0811  | 5000              | 0.57                   | 34.14                              | 29.02      | 79.03      | 29.2                             | 1004*322.5                 | 904             | 1204  |
| 39XT0912  | 6000              | 0.69                   | 41.46                              | 35.46      | 95.96      | 97.5                             | 1104*322.5                 | 1004            | 1304  |
| 39XT0913  | 7000              | 0.76                   | 47.94                              | 41.32      | 111.77     | 107.8                            | 1204*480                   | 1004            | 1404  |
| 39XT0914  | 8000              | 0.84                   | 54.39                              | 47.35      | 127.53     | 118.1                            | 1304*480                   | 1004            | 1504  |
| 39XT1015  | 10000             | 1.06                   | 69.13                              | 60.56      | 153.60     | 151.5                            | 1404*480                   | 1104            | 1604  |
| 39XT1117  | 12000             | 1.31                   | 84.79                              | 65.95      | 188.88     | 206.7                            | 1604*480                   | 1204            | 1804  |
| 39XT1317  | 15000             | 1.68                   | 107.03                             | 83.28      | 237.60     | 241.6                            | 1604*480                   | 1404            | 1804  |
| 39XT1418  | 18000             | 1.90                   | 126.34                             | 99.39      | 283.24     | 280.8                            | 1704*637                   | 1504            | 1904  |
| 39XT1420  | 20000             | 2.14                   | 142.41                             | 114.02     | 319.94     | 317.1                            | 1904*637.5                 | 1504            | 2104  |
| 39XT1621  | 25000             | 2.62                   | 165.83                             | 143.03     | 391.43*    | 363.1                            | 2004*637.5                 | 1704            | 2204  |
| 39XT1822  | 30000             | 3.26                   | 203.01                             | 175.65     | 469.86*    | 442.7                            | 2104*795                   | 1904            | 2304  |
| 39XT1825  | 32000             | 3.75                   | 226.22                             | 197.13     | 506.12*    | 533.0                            | 2404*795                   | 1904            | 2604  |
| 39XT2025  | 35000             | 4.04                   | 244.05                             | 212.48     | 564.12*    | 595.5                            | 2404*795                   | 2104            | 2604  |
| 39XT2125  | 40000             | 4.33                   | 272.70                             | 237.86     | 627.66*    | 624.5                            | 2404*952.5                 | 2204            | 2604  |
| 39XT2226  | 45000             | 4.82                   | 307.16                             | 268.70     | 693.83*    | 672.5                            | 2504*952.5                 | 2304            | 2704  |
| 39XT2328  | 50000             | 5.39                   | 344.97                             | 299.37     | 761.06*    | 738.0                            | 2704*952.5                 | 2404            | 2904  |
| 39XT2333  | 60000             | 6.44                   | 417.15*                            | 365.29*    | 880.6*     | 898.4                            | 3204*952.5                 | 2404            | 3404  |
| 39XT2532  | 73170             | 8.13                   | 470.33                             | 457.23     | 965.14*    |                                  | 3104*952.5                 | 2604            | 3304  |
| 39XT2832  | 81081             | 9.01                   | 513.83*                            | 507.29     | 1246.68*   |                                  | 3104*952.5                 | 2904            | 3304  |
| 39XT3132  | 89820             | 9.98                   | 574.52*                            | 543.02*    | 1247.79*   |                                  | 3104*1267.5                | 3204            | 3304  |
| 39XT3438  | 111240            | 12.36                  | 668.53                             | 625.96     | 1770.74*   |                                  | 3704*1267.5                | 3504            | 3904  |
| 39XT3841  | 132210            | 14.69                  | 812.74                             | 759.88     | 2087.94*   |                                  | 4004*1582.5                | 3904            | 4204  |
| 39XT4444  | 159480            | 17.72                  | 1020.87                            | 932.70     | 2542.41*   |                                  | 4304*1582.5                | 4504            | 4504  |
| 39XT4750  | 198090            | 22.01                  | 1297.04                            | 1190.93    | 3101.77*   |                                  | 4904*1582.5                | 4804            | 5104  |

Note: 1. The data of 2R coil heating capacity is under the standard condition. (Air temperature in is 15℃ db, water temperature in is 60℃)

2. The data of 4R coil cooling capacity is under the standard condition. (Air temperature in is 27℃ db/19.5℃ wb, water temperature in is 7℃)

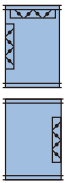
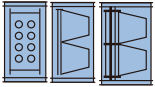














3. The data of 6R coil cooling capacity is under the fresh air condition. (Air temperature in is 35℃ db/28℃ wb, water temperature in is 7℃)

4. The unit height does not include the damper on top and the base of 100mm (0608~2333) / 200mm (2532~4750)

5. The cooling and heating capacity of the coil in the table is just for your reference, the data with "\*" means temperature difference of in/out is more than 5℃.

Please refer Carrier AHU selection software for detail information.

## Standard Components

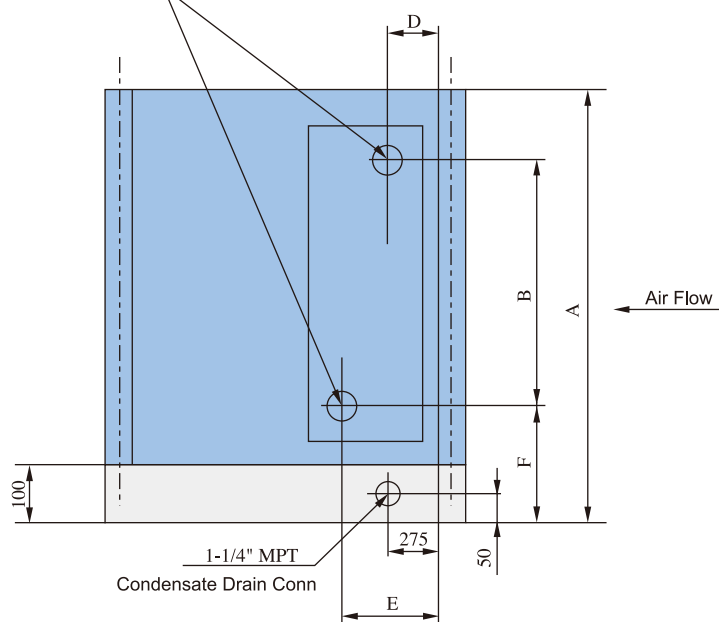
| No. | Unit Section                      | Diagram   | Section Length (M: Module)   | Remark  |
|-----|-----------------------------------|---|--|---|
| 1   | Return/Mixing/Supply Chamber      |    | (0608~0912) 5M<br>(0913~1317) 6M<br>(1418~1621) 8M<br>(1822~2025) 9M<br>(2125~2333) 11M<br>(2532~2832) 12M<br>(3132~3438) 15M<br>(3841~4750) 18M | 1. Could be used as access section<br>2. Could reduce the length of section suitably when the direction of in/out air is horizontal             |
| 2   | Electrostatic/Bag/Combined Filter |    | 3M/6M  | Access section is recommended at upstream   |
| 3   | Cooling Coil                      |    | 5M or 6M; 12M  | 1. For 0608~2333, the section length is 5M with drift eliminator and 6M without drift eliminator<br>2. For 2532~4750, the section length is 12M |
| 4   | Heating Coil                      |    | 3M   | May be installed together with the cold water coil if the cooling coil does not include a film humidifier and a drift eliminator                |
| 5   | Steam Heating Coil                |    | 3M   | Pay attention that the steam pressure could impact the heating capacity   |
| 6   | Electric Heating Coil             |   | 3M   | Pay attention to the power stage of control   |
| 7   | Steam Humidifier                  |  | 6M   | Pay attention that the steam pressure could impact the humidifier capacity  |
| 8   | Film Humidifier*                  |  | 3M   | May be installed directly in the coils and drain pan, no additional space needed  |
| 9   | Spray Humidifier*                 |  | 6M   | Could share the drift eliminator with cooling coil when it is installed next the coil.  |
| 10  | Electric Humidifier               |  | 6M   |   |
| 11  | Fan                               |  | Refer to fan table   | Four discharge configurations available   |
| 12  | Combined Mixing Chamber           |  | (0608~0913) 10M (0914~1825) 12M (2025~2333) 18M (2532~2832) 26M (3132~3438) 32M (3841~4750) 38M  | Could be used as access section   |
| 13  | Attenuator                        |  | 6M (1 Level)<br>12M (2 Level)  | Access section is recommended at upstream   |
| 14  | Plenum/Access                     |  | 3M、6M  | The length can not be less than 5M, when it is used as access section.  |
| 15  | High Efficiency Filter            |  | 9M   | Already include the access section at upstream  |
| 16  | Energy Recovery*                  |  | 6M   | Pre-filter at upstream and access section at downstream are recommended   |

Note: The section with "\*" is not available for 2532~4750 in the selection software, please contact Carrier sales office

# Coil Connection

## Cooling & Heating Coil (0608~2333)

Supply/Return Water Conn ΦC



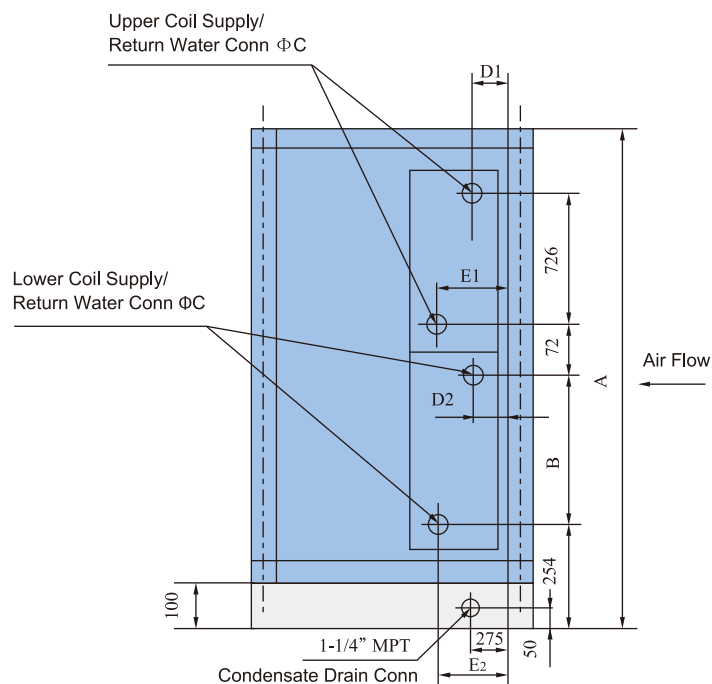
\*MPT- Male Thread

(mm)

| 39XT | A    | B    | øC         | F   |
|------|------|------|------------|-----|
| 0608 | 804  | 357  | 1-1/2" MPT | 238 |
| 0609 | 804  | 421  | 1-1/2" MPT | 238 |
| 0711 | 904  | 472  | 2" MPT     | 244 |
| 0811 | 1004 | 599  | 2" MPT     | 244 |
| 0912 | 1104 | 647  | 2-1/2" MPT | 252 |
| 0913 | 1104 | 647  | 2-1/2" MPT | 252 |
| 0914 | 1104 | 647  | 2-1/2" MPT | 252 |
| 1015 | 1204 | 774  | 2-1/2" MPT | 252 |
| 1117 | 1304 | 824  | 3" MPT     | 259 |
| 1317 | 1504 | 1078 | 3" MPT     | 259 |
| 1418 | 1604 | 1142 | 3" MPT     | 259 |
| 1420 | 1604 | 1142 | 3" MPT     | 259 |
| 1621 | 1804 | 1332 | 3" MPT     | 259 |
| 1822 | 2004 | 1586 | 3" MPT     | 259 |
| 1825 | 2004 | 1586 | 3" MPT     | 259 |

(mm)

| 39XT      | Coil Row        | D  | E   | øC              |
|-----------|-----------------|----|-----|-----------------|
| 0608~1825 | 2Rows Hot Water | 55 | 138 | 1-1/2" MPT      |
| 0608~1015 | 4Rows           | 91 | 174 | See above table |
| 1117~1825 | 4Rows           | 84 | 181 |                 |
| 0608~0609 | 6Rows           | 63 | 201 |                 |
| 0711~0811 | 6Rows           | 70 | 194 |                 |
| 0912~1015 | 6Rows           | 77 | 187 |                 |
| 1117~1825 | 6Rows           | 84 | 180 |                 |
| 0608~1825 | 8Rows           | 84 | 226 |                 |



MPT- Male Thread

(mm)

| 39XT | A    | B    | øC     | øF  |
|------|------|------|--------|-----|
| 2025 | 2204 | 951  | 3" MPT | 259 |
| 2125 | 2304 | 1078 | 3" MPT | 259 |
| 2226 | 2404 | 1205 | 3" MPT | 259 |
| 2328 | 2504 | 1269 | 3" MPT | 259 |
| 2333 | 2504 | 1269 | 3" MPT | 259 |

(mm)

| 39XT      | Coil Row        | D   | E   | øC              |
|-----------|-----------------|-----|-----|-----------------|
| 2025~2333 | 2Rows Hot Water | 55  | 138 | 1-1/2" MPT      |
| 2025~2333 | 4Rows           | 109 | 206 | See above table |
| 2025~2333 | 6Rows           | 109 | 206 |                 |
| 2025~2333 | 8Rows           | 88  | 226 |                 |

# Coil Connection

## Cooling Coil (2532~4750)

| Unit Size | Total Qty of Coil | Coil Model*Qty | Coil Diameter*Qty                                |
|-----------|-------------------|----------------|--|
| 39XT 2532 | 2                 | 5100*2         | Φ89*4  |
| 39XT 2832 | 2                 | 5100*1         | Φ89*2  |
|           |                   | 6100*1         | 6100 Upper coil: Φ48*2<br>6100 Lower coil: Φ89*2 |
| 39XT 3132 | 2                 | 5100*1         | Φ89*2  |
|           |                   | 7100*1         | 7100 Upper coil: Φ48*2<br>7100 Lower coil: Φ89*2 |
| 39XT 3438 | 4                 | 660*2          | 660 Upper coil: Φ48*4<br>660 Lower coil: Φ89*4   |
|           |                   |                | 760 Upper coil: Φ48*4<br>760 Lower coil: Φ60*4   |
|           |                   | 760*2          | 760 Upper coil: Φ48*4<br>760 Lower coil: Φ89*4   |
|           |                   |                | 770 Upper coil: Φ48*4<br>770 Lower coil: Φ89*4   |
| 39XT 3841 | 4                 | 570*4          | Φ89*8  |
|           |                   | 670*2          | 670 Upper coil: Φ48*4<br>670 Lower coil: Φ89*4   |
| 39XT 4444 | 6                 | 580*2          | Φ89*4  |
|           |                   | 680*4          | 680 Upper coil: Φ48*8<br>680 Lower coil: Φ89*8   |

Note: table and figure are just for your reference  
Both sides water connection for unit 3438~4750

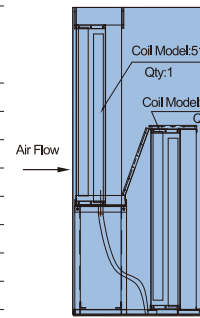


Figure 1: 39XT 2532

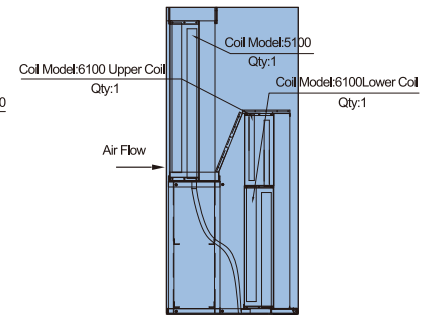


Figure 2: 39XT 2832

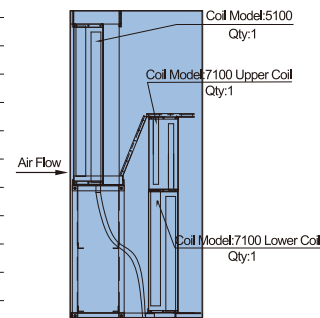


Figure 3: 39XT 3132

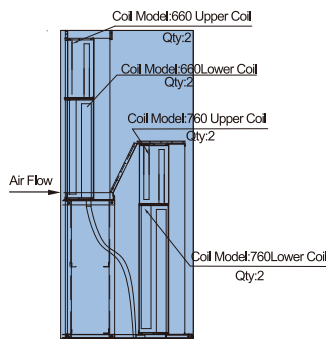


Figure 4: 39XT 3438

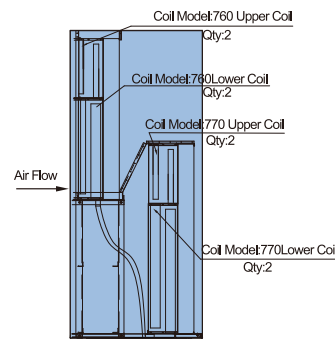


Figure 5: 39XT 3841

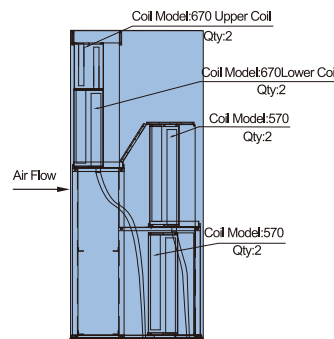


Figure 6: 39XT 4444

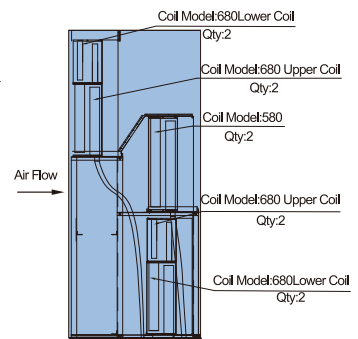


Figure 7: 39XT 4750

## Heating Coil (2532~4750)

| Unit Size | Total Qty of Coil | Coil Model*Qty | Coil Diameter*Qty |
|-----------|-------------------|----------------|-------------------|
| 39XT 2532 | 2                 | 4100*2         | Φ48*4             |
| 39XT 2832 | 2                 | 4100*1         | Φ48*2             |
|           |                   | 5100*1         | Φ48*2             |
| 39XT 3132 | 2                 | 5100*2         | Φ48*4             |
| 39XT 3438 | 6                 | 360*2          | Φ48*4             |
|           |                   | 460*4          | Φ48*8             |
| 39XT 3841 | 6                 | 460*3          | Φ48*6             |
|           |                   | 470*3          | Φ48*6             |
| 39XT 4444 | 6                 | 470*2          | Φ48*4             |
|           |                   | 570*4          | Φ48*8             |
| 39XT 4750 | 6                 | 580*6          | Φ48*12            |

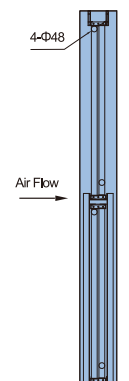


Figure 1: 39CBF/39CBF 2532, 2832, 3132

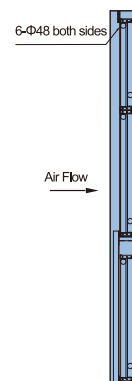


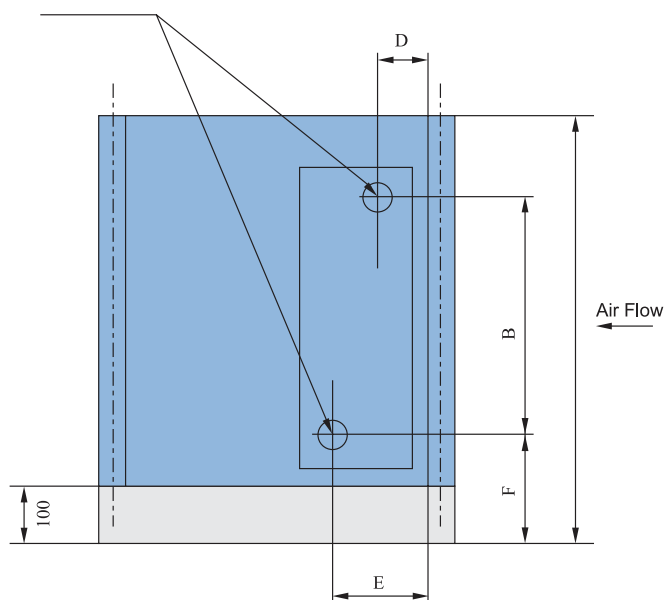
Figure 2: 39CBF/39CBF 3438, 4444, 4750

Note: table and figure are just for your reference  
Both sides water connection for unit 3438~4750



## Steam Coil Connection

Supply/Return Water Conn ΦC

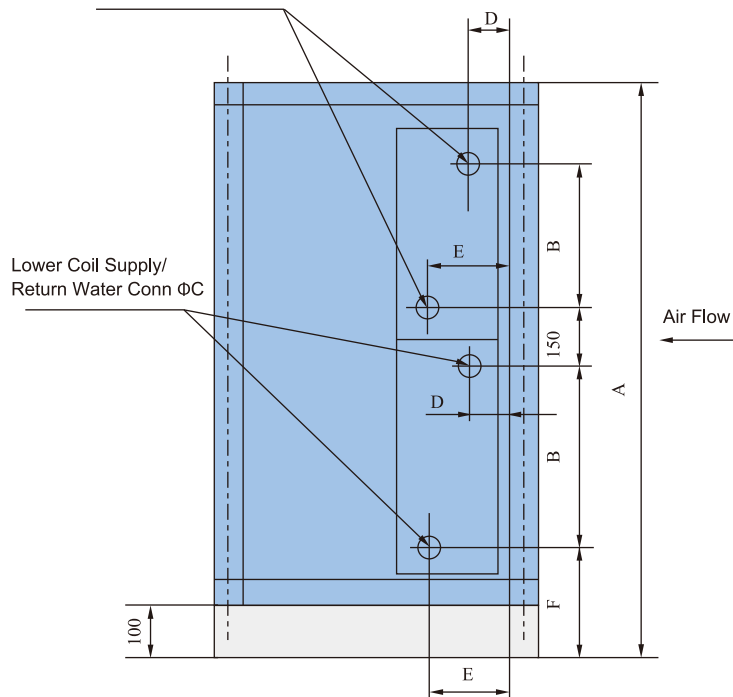


(mm)

| 39XT     | A    | B   | øC     | F   | D  | E   |
|----------|------|-----|--------|-----|----|-----|
| 39XT0608 | 804  | 347 | 2" MPT | 250 | 80 | 150 |
| 39XT0609 | 804  | 347 | 2" MPT | 250 | 80 | 150 |
| 39XT0711 | 904  | 418 | 2" MPT | 250 | 80 | 150 |
| 39XT0811 | 1004 | 560 | 2" MPT | 250 | 80 | 150 |
| 39XT0912 | 1104 | 631 | 2" MPT | 250 | 80 | 150 |
| 39XT0913 | 1104 | 631 | 2" MPT | 250 | 80 | 150 |
| 39XT0914 | 1104 | 631 | 2" MPT | 250 | 80 | 150 |
| 39XT1015 | 1204 | 738 | 2" MPT | 250 | 80 | 150 |
| 39XT1117 | 1304 | 738 | 2" MPT | 250 | 80 | 150 |

Note: the data above is just for your reference

Upper Coil Supply/  
Return Water Conn ΦC



(mm)

| 39XT     | A    | B   | øC     | F   | D  | E   |
|----------|------|-----|--------|-----|----|-----|
| 39XT1317 | 1504 | 489 | 2" MPT | 250 | 80 | 150 |
| 39XT1418 | 1604 | 520 | 2" MPT | 250 | 80 | 150 |
| 39XT1420 | 1604 | 520 | 2" MPT | 250 | 80 | 150 |
| 39XT1621 | 1804 | 631 | 2" MPT | 250 | 80 | 150 |
| 39XT1822 | 2004 | 738 | 2" MPT | 250 | 80 | 150 |
| 39XT1825 | 2004 | 738 | 2" MPT | 250 | 80 | 150 |
| 39XT2025 | 2204 | 844 | 2" MPT | 250 | 80 | 150 |
| 39XT2125 | 2304 | 844 | 2" MPT | 250 | 80 | 150 |
| 39XT2226 | 2404 | 844 | 2" MPT | 250 | 80 | 150 |
| 39XT2328 | 2504 | 884 | 2" MPT | 250 | 80 | 150 |
| 39XT2333 | 2504 | 884 | 2" MPT | 250 | 80 | 150 |

Note: the data above is just for your reference

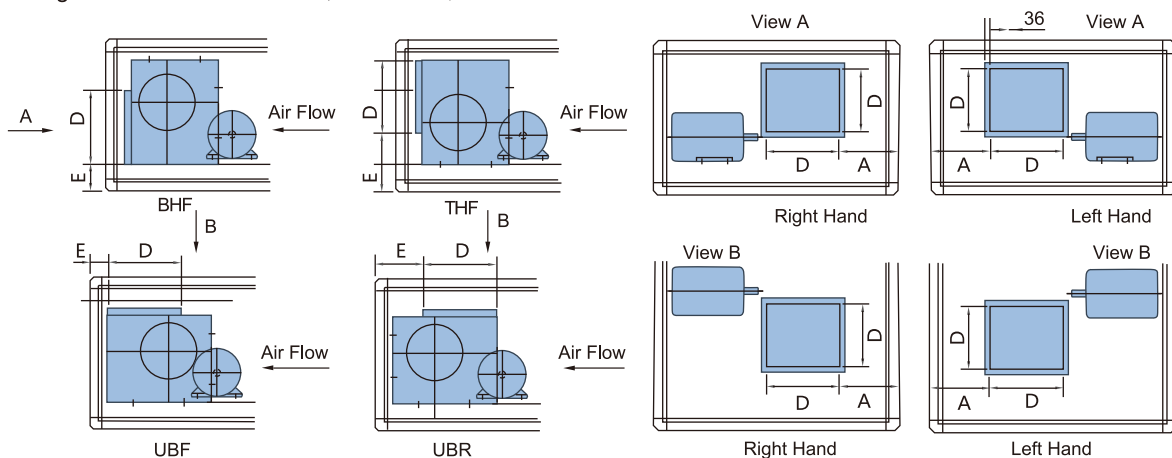
Connection Dimensions of unit 2532~4750 depend on the actual condition

Fan & Motor (0608~2333)

(mm)

| Unit Size | Fan Model | Max. Motor Power (kW) | Max. Motor Model | Fan section length |          |
|-----------|-----------|-----------------------|------------------|--------------------|----------|
|           |           |                       |                  | Horizontal         | Vertical |
| 39XT0608  | FC160     | 1.5                   | Y90              | 604                | 904      |
|           | FC180     |                       |                  | 604                | 904      |
| 39XT0609  | FC180     | 2.2                   | Y100             | 604                | 904      |
|           | FC200     |                       |                  | 704                | 904      |
| 39XT0711  | FC200     | 3.7                   | Y112             | 704                | 904      |
|           | FC225     |                       |                  | 704                | 904      |
| 39XT0811  | FC225     | 3.7                   | Y112             | 704                | 904      |
|           | FC/BC250  |                       |                  | 704                | 904      |
| 39XT0912  | FC/BC250  | 5.5                   | Y132             | 704                | 904      |
|           | FC/BC280  |                       |                  | 804                | 904      |
| 39XT0913  | FC/BC280  | 5.5                   | Y132             | 804                | 904      |
|           | FC/BC315  |                       |                  | 804                | 904      |
| 39XT0914  | FC/BC315  | 7.5                   | Y132             | 804                | 904      |
|           | FC/BC355  |                       |                  | 904                | 904      |
| 39XT1015  | FC/BC355  | 7.5                   | Y132             | 904                | 904      |
|           | FC/BC400  |                       |                  | 904                | 904      |
| 39XT1117  | FC/BC400  | 11                    | Y160             | 904                | 904      |
|           | FC/BC450  |                       |                  | 1104               | 1104     |
| 39XT1317  | FC/BC400  | 15                    | Y160             | 904                | 904      |
|           | FC/BC450  |                       |                  | 1104               | 1104     |
| 39XT1418  | FC/BC450  | 15                    | Y160             | 1104               | 1104     |
|           | FC/BC500  |                       |                  | 1104               | 1104     |
| 39XT1420  | FC/BC500  | 18.5                  | Y180             | 1104               | 1104     |
|           | FC/BC560  |                       |                  | 1304               | 1304     |
| 39XT1621  | FC/BC560  | 18.5                  | Y180             | 1304               | 1304     |
|           | FC/BC630  |                       |                  | 1404               | 1404     |
| 39XT1822  | FC/BC560  | 18.5                  | Y180             | 1304               |          |
|           | FC/BC630  |                       |                  | 1404               |          |
| 39XT1825  | FC/BC630  | 30                    | Y200             | 1404               |          |
|           | FC/BC710  |                       |                  | 1504               |          |
| 39XT2025  | FC/BC630  | 30                    | Y200             | 1404               |          |
|           | FC/BC710  |                       |                  | 1504               |          |
| 39XT2125  | FC/BC710  | 30                    | Y200             | 1504               |          |
|           | FC/BC800  |                       |                  | 1704               |          |
| 39XT2226  | FC/BC710  | 30                    | Y200             | 1504               |          |
|           | FC/BC800  |                       |                  | 1704               |          |
| 39XT2328  | FC/BC800  | 37                    | Y225             | 1704               |          |
|           | FC/BC900  |                       |                  | 1904               |          |
| 39XT2333  | FC/BC800  | 45                    | Y225             | 1704               |          |
|           | FC/BC900  |                       |                  | 1904               |          |

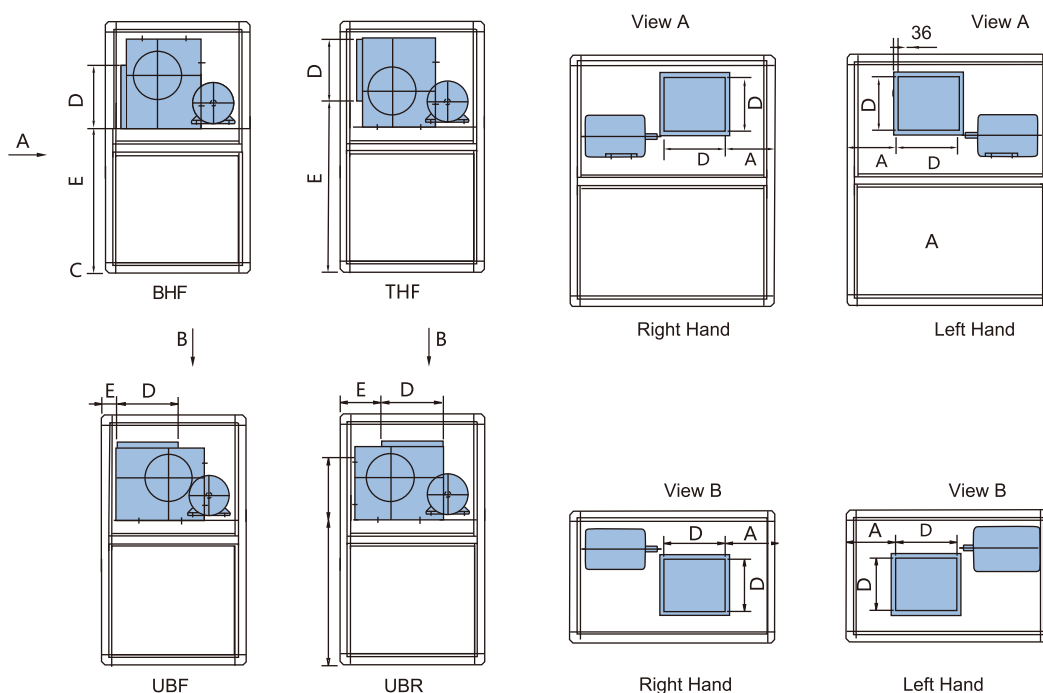
## Fan Arrangement- Horizontal Unit (0608-2333)



(mm)

| Unit Size | Fan Model | A     | D      | E     |       |     |       |
|-----------|-----------|-------|--------|-------|-------|-----|-------|
|           |           |       |        | THF   | BHF   | UBF | UBR   |
| 39XT0608  | FC160     | 231.0 | 205.0  | 292.5 | 170.0 | 127 | 199.0 |
|           | FC180     | 186.5 | 229.0  | 292.5 | 170.0 | 127 | 224.0 |
| 39XT0609  | FC180     | 298.0 | 229.0  | 292.5 | 170.0 | 127 | 224.0 |
|           | FC200     | 267.5 | 256.0  | 300.5 | 170.0 | 127 | 233.0 |
| 39XT0711  | FC200     | 367.5 | 256.0  | 300.5 | 170.0 | 127 | 233.0 |
|           | FC225     | 318.5 | 288.0  | 314.5 | 170.0 | 127 | 270.0 |
| 39XT0811  | FC225     | 318.5 | 288.0  | 314.5 | 170.0 | 127 | 270.0 |
|           | FC/BC250  | 318.5 | 322.0  | 326.0 | 170.0 | 127 | 259.0 |
| 39XT0912  | FC/BC250  | 368.5 | 322.0  | 326.0 | 170.0 | 127 | 259.0 |
|           | FC/BC280  | 342.5 | 361.0  | 343.0 | 170.0 | 127 | 308.0 |
| 39XT0913  | FC/BC280  | 392.5 | 361.0  | 343.0 | 170.0 | 127 | 308.0 |
|           | FC/BC315  | 349.5 | 404.0  | 362.0 | 170.0 | 127 | 295.0 |
| 39XT0914  | FC/BC315  | 399.5 | 404.0  | 362.0 | 170.0 | 127 | 295.0 |
|           | FC/BC355  | 402.5 | 453.0  | 387.0 | 195.0 | 127 | 317.0 |
| 39XT1015  | FC/BC355  | 452.5 | 453.0  | 387.0 | 195.0 | 127 | 317.0 |
|           | FC/BC400  | 401.5 | 507.0  | 415.0 | 195.0 | 127 | 347.0 |
| 39XT1117  | FC/BC400  | 501.5 | 507.0  | 415.0 | 195.0 | 127 | 347.0 |
|           | FC/BC450  | 441.5 | 569.0  | 444.0 | 195.0 | 127 | 375.0 |
| 39XT1317  | FC/BC400  | 501.5 | 507.0  | 415.0 | 195.0 | 127 | 347.0 |
|           | FC/BC450  | 396.5 | 569.0  | 444.0 | 195.0 | 127 | 375.0 |
| 39XT1418  | FC/BC450  | 446.5 | 569.0  | 444.0 | 195.0 | 127 | 375.0 |
|           | FC/BC500  | 427.5 | 638.0  | 465.0 | 195.0 | 127 | 397.0 |
| 39XT1420  | FC/BC500  | 527.5 | 638.0  | 465.0 | 195.0 | 127 | 397.0 |
|           | FC/BC560  | 518.5 | 715.0  | 556.0 | 255.0 | 127 | 428.0 |
| 39XT1621  | FC/BC560  | 518.5 | 715.0  | 556.0 | 255.0 | 127 | 428.0 |
|           | FC/BC630  | 432.5 | 801.0  | 598.0 | 255.0 | 127 | 471.0 |
| 39XT1822  | FC/BC560  | 618.5 | 715.0  | 556.0 | 255.0 | 127 | 428.0 |
|           | FC/BC630  | 532.5 | 801.0  | 598.0 | 255.0 | 127 | 471.0 |
| 39XT1825  | FC/BC630  | 727.5 | 801.0  | 598.0 | 255.0 | 127 | 471.0 |
|           | FC/BC710  | 630.5 | 898.0  | 646.0 | 255.0 | 127 | 518.0 |
| 39XT2025  | FC/BC630  | 727.5 | 801.0  | 598.0 | 255.0 | 127 | 471.0 |
|           | FC/BC710  | 630.5 | 898.0  | 646.0 | 255.0 | 127 | 518.0 |
| 39XT2125  | FC/BC710  | 580.5 | 898.0  | 646.0 | 255.0 | 127 | 518.0 |
|           | FC/BC800  | 520.5 | 1007.0 | 715.0 | 268.0 | 127 | 574.0 |
| 39XT2226  | FC/BC710  | 680.5 | 898.0  | 646.0 | 255.0 | 127 | 518.0 |
|           | FC/BC800  | 620.5 | 1007.0 | 715.0 | 268.0 | 127 | 574.0 |
| 39XT2328  | FC/BC800  | 670.5 | 1007.0 | 715.0 | 268.0 | 127 | 574.0 |
|           | FC/BC900  | 642.5 | 1130.0 | 772.0 | 268.0 | 127 | 631.0 |
| 39XT2333  | FC/BC800  | 970.5 | 1007.0 | 715.0 | 268.0 | 127 | 574.0 |
|           | FC/BC900  | 942.5 | 1130.0 | 772.0 | 268.0 | 127 | 631.0 |

## Fan Arrangement- Vertical Unit (0608~2333)



(mm)

| Unit Size | Fan Model | A     | D   | E      |        |     |     |
|-----------|-----------|-------|-----|--------|--------|-----|-----|
|           |           |       |     | THF    | BHF    | UBF | UBR |
| 39XT0608  | FC160     | 231.0 | 205 | 996.5  | 874.0  | 127 | 199 |
|           | FC180     | 186.5 | 229 | 996.5  | 874.0  | 127 | 224 |
| 39XT0609  | FC180     | 298.0 | 229 | 996.5  | 874.0  | 127 | 224 |
|           | FC200     | 267.5 | 256 | 1004.5 | 874.0  | 127 | 233 |
| 39XT0711  | FC200     | 367.5 | 256 | 1104.5 | 974.0  | 127 | 233 |
|           | FC225     | 318.5 | 288 | 1118.5 | 974.0  | 127 | 270 |
| 39XT0811  | FC225     | 318.5 | 288 | 1218.5 | 1074.0 | 127 | 270 |
|           | FC/BC250  | 318.5 | 322 | 1230.0 | 1074.0 | 127 | 259 |
| 39XT0912  | FC/BC250  | 368.5 | 322 | 1330.0 | 1174.0 | 127 | 259 |
|           | FC/BC280  | 342.5 | 361 | 1347.0 | 1174.0 | 127 | 308 |
| 39XT0913  | FC/BC280  | 392.5 | 361 | 1347.0 | 1174.0 | 127 | 308 |
|           | FC/BC315  | 349.5 | 404 | 1366.0 | 1174.0 | 127 | 295 |
| 39XT0914  | FC/BC315  | 399.5 | 404 | 1366.0 | 1174.0 | 127 | 295 |
|           | FC/BC355  | 402.5 | 453 | 1391.0 | 1199.0 | 127 | 317 |
| 39XT1015  | FC/BC355  | 452.5 | 453 | 1491.0 | 1299.0 | 127 | 317 |
|           | FC/BC400  | 401.5 | 507 | 1519.0 | 1299.0 | 127 | 347 |
| 39XT1117  | FC/BC400  | 501.5 | 507 | 1619.0 | 1399.0 | 127 | 347 |
|           | FC/BC450  | 441.5 | 569 | 1648.0 | 1399.0 | 127 | 375 |
| 39XT1317  | FC/BC400  | 501.5 | 507 | 1819.0 | 1599.0 | 127 | 347 |
|           | FC/BC450  | 396.5 | 569 | 1848.0 | 1599.0 | 127 | 375 |
| 39XT1418  | FC/BC450  | 446.5 | 569 | 1948.0 | 1699.0 | 127 | 375 |
|           | FC/BC500  | 427.5 | 638 | 1969.0 | 1699.0 | 127 | 397 |
| 39XT1420  | FC/BC500  | 527.5 | 638 | 1969.0 | 1699.0 | 127 | 397 |
|           | FC/BC560  | 518.5 | 715 | 2060.0 | 1759.0 | 127 | 428 |
| 39XT1621  | FC/BC560  | 518.5 | 715 | 2260.0 | 1959.0 | 127 | 428 |
|           | FC/BC630  | 432.5 | 801 | 2302.0 | 1959.0 | 127 | 471 |



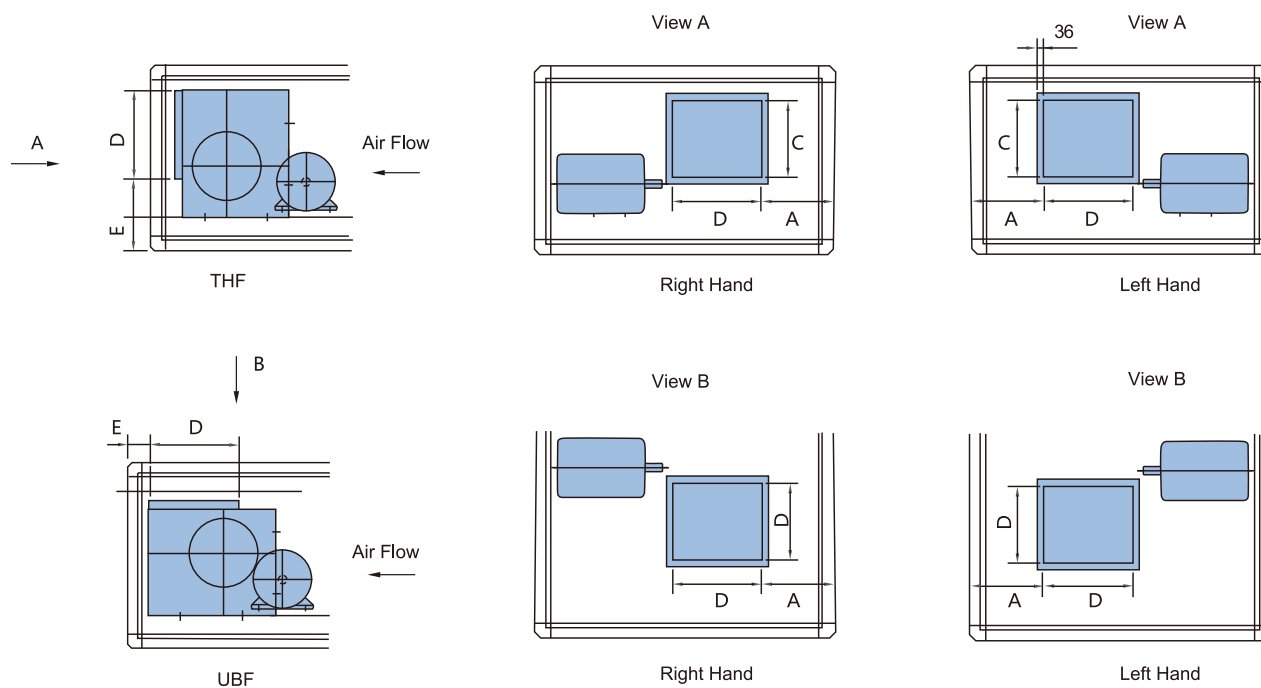
# Fan

## Fan & Motor (2532~4750)

(mm)

| Unit Size | Fan Model | Max. Motor Power (kW) | Max. Motor Model | Fan Section Length |      |
|-----------|-----------|-----------------------|------------------|--------------------|------|
|           |           |                       |                  | THF                | UBF  |
| 39XT2532  | BC900     | 45                    | Y225             | 2604               | 2604 |
|           | BC1000    | 55                    | Y250             | 2604               | 2604 |
| 39XT2832  | BC1000    | 55                    | Y250             | 2604               | 2604 |
|           | BC1120    | 90                    | Y280             | 2804               | 2804 |
| 39XT3132  | BC1000    | 55                    | Y250             | 2604               | 2604 |
|           | BC1120    | 90                    | Y280             | 2804               | 2804 |
| 39XT3438  | BC1250    | 90                    | Y280             | 2904               | 2904 |
| 39XT3841  | BC1250    | 90                    | Y280             | 2904               | 2904 |
|           | BC1400    | 132                   | Y315             | 3704               | 4104 |
| 39XT4444  | BC1400    | 132                   | Y315             | 3704               | 4104 |
| 39XT4750  | BC1600    | 132                   | Y315             | 4004               | 4404 |

## Fan Arrangement - Horizontal Unit (2532~4750)



(mm)

| Unit Size | Fan Model | A     | D    | E     |     |
|-----------|-----------|-------|------|-------|-----|
|           |           |       |      | THF   | UBF |
| 39XT2532  | BC900     | 940   | 1130 | 834   | 284 |
|           | BC1000    | 788.5 | 1267 | 876.5 | 195 |
| 39XT2832  | BC1000    | 788.5 | 1267 | 876.5 | 195 |
|           | BC1120    | 561   | 1422 | 987   | 200 |
| 39XT3132  | BC1000    | 788.5 | 1267 | 876.5 | 195 |
|           | BC1120    | 561   | 1422 | 987   | 200 |
| 39XT3438  | BC1250    | 1043  | 1524 | 1156  | 104 |
| 39XT3841  | BC1250    | 1343  | 1524 | 1156  | 104 |
|           | BC1400    | 1208  | 1794 | 1208  | 150 |
| 39XT4444  | BC1400    | 1358  | 1794 | 1208  | 150 |
| 39XT4750  | BC1600    | 1545  | 2020 | 1347  | 150 |

Note: the datas in table are just for your reference

## Filter

The types of filters offered are as follows.

1" External High Velocity Filter

2" External Low Velocity Filter

1" Internal High Velocity Filter

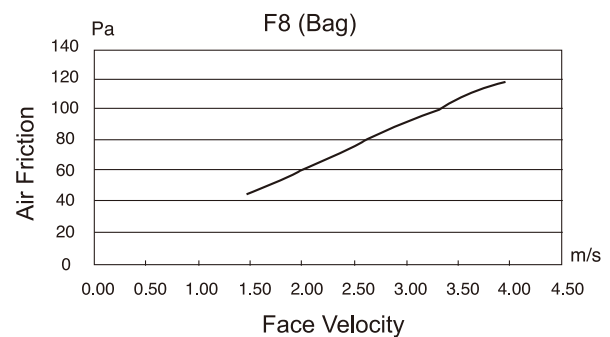
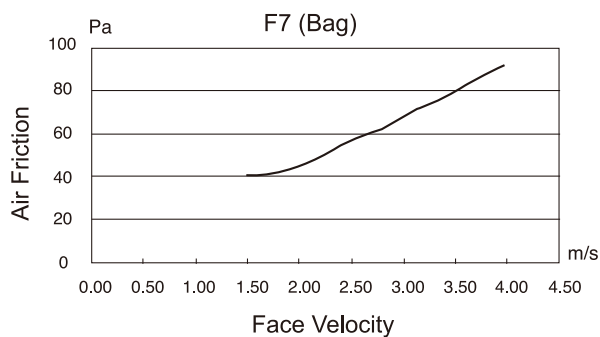
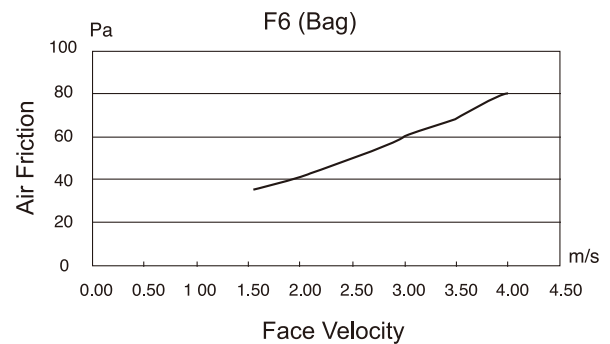
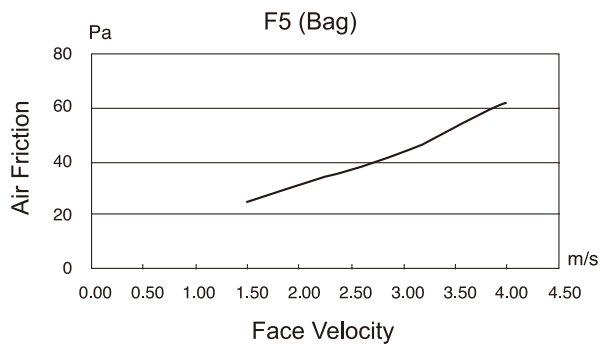
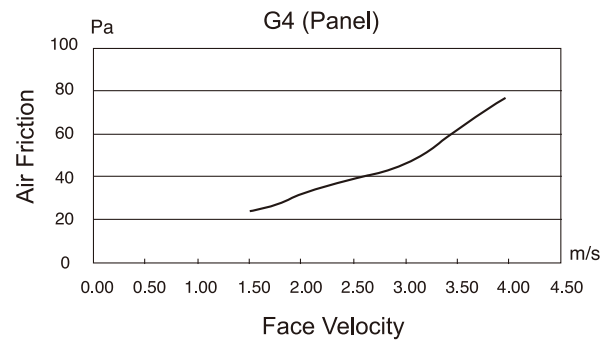
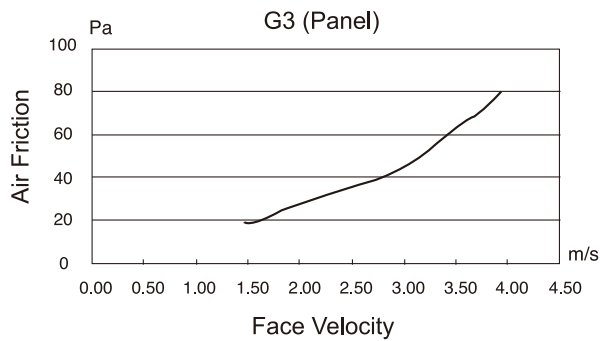
2" Internal Low Velocity Filter

Internal Primary Efficiency Bag Filter

Internal Sub-High Efficiency Bag Filter

Primary & Medium Efficiency Filter Performance

Efficiency: Primary Efficiency Panel Filter G3. Medium Efficiency Bag Filter F5



## Filter Size Schedule

| Unit Size | External Panel Filter Cell Quantities $\eta$ =G3 |         |         |         |         |         |         |         |         |         |
|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 39XT      | 392×395  | 492×395 | 592×395 | 692×395 | 392×495 | 492×495 | 592×495 | 592×595 | 692×495 | 392×595 |
| 0608      |  |         |         |         |         |         |         |         |         | 1       |
| 0609      | 2  |         |         |         |         |         |         |         |         |         |
| 0711      |  | 1       |         |         |         | 1       |         |         |         |         |
| 0811      |  |         | 1       |         |         |         | 1       |         |         |         |
| 0912      |  |         |         |         |         |         |         |         | 2       |         |
| 0913      |  |         |         | 3       |         |         |         |         |         |         |
| 0914      |  |         |         | 3       |         |         |         |         |         |         |
| 1015      | 4  |         |         |         | 2       |         |         |         |         |         |
| 1117      |  |         |         |         | 3       | 3       |         |         |         |         |
| 1317      |  |         |         |         |         | 3       | 3       |         |         |         |
| 1418      |  |         |         |         |         |         | 4       | 2       |         |         |
| 1420      |  |         |         |         |         |         |         | 6       |         |         |
| 1621      |  |         |         | 2       |         |         |         |         | 6       |         |
| 1822      |  |         |         |         | 4       |         | 8       |         |         |         |
| 1825      | 2  |         | 4       |         | 3       |         | 6       |         |         |         |
| 2025      | 2  |         |         | 4       | 3       |         |         |         |         | 6       |
| 2125      |  | 2       |         | 4       |         | 3       |         |         |         | 6       |
| 2226      |  |         | 1       | 2       |         |         | 4       |         | 8       |         |
| 2328      |  | 12      | 4       |         |         | 6       | 2       |         |         |         |
| 2333      |  | 12      | 4       |         |         | 9       | 3       |         |         |         |

| Unit Size | Internal Panel Filter Cell Quantities $\eta$ =G3 |         |         |         |         |         |
|-----------|--|---------|---------|---------|---------|---------|
| 39XT      | 290×493  | 290×595 | 390×493 | 390×595 | 493×595 | 595×595 |
| 0608      | 2  |         |         |         |         |         |
| 0609      |  |         | 2       |         |         |         |
| 0711      |  | 3       |         |         |         |         |
| 0811      |  | 2       |         | 1       |         |         |
| 0912      |  |         | 2       | 2       |         |         |
| 0913      |  |         | 2       | 2       |         |         |
| 0914      |  |         |         | 4       |         |         |
| 1015      |  | 2       |         |         |         | 2       |
| 1117      |  |         |         | 3       |         | 2       |
| 1317      |  | 2       |         |         |         | 4       |
| 1418      |  |         |         | 2       |         | 4       |
| 1420      |  |         |         |         |         | 6       |
| 1621      |  | 3       |         |         |         | 6       |
| 1822      |  | 2       |         | 2       |         | 6       |
| 1825      |  | 4       |         |         |         | 8       |
| 2025      |  |         |         |         |         | 12      |
| 2125      |  |         |         |         |         | 12      |
| 2226      |  | 4       |         |         |         | 12      |
| 2328      |  | 7       |         |         |         | 12      |
| 2333      |  |         |         | 5       |         | 15      |

## Filter Size Schedule

| Unit Size | Internal Bag Filter Cell Quantities $\eta=F5$ |         |         |         |         |         |         |         |         |
|-----------|---|---------|---------|---------|---------|---------|---------|---------|---------|
|           | 290×493                                       | 290×595 | 390×493 | 390×595 | 493×390 | 493×595 | 595×290 | 595×390 | 595×595 |
| 0608      | 2   |         |         |         |         |         |         |         |         |
| 0609      |   |         | 2       |         |         |         |         |         |         |
| 0711      |   | 3       |         |         |         |         |         |         |         |
| 0811      |   | 2       |         | 1       |         |         |         |         |         |
| 0912      |   |         |         |         | 2       |         |         | 2       |         |
| 0913      |   |         |         |         | 2       |         |         | 2       |         |
| 0914      |   |         |         |         |         |         |         | 4       |         |
| 1015      |   |         |         |         |         |         | 2       |         | 2       |
| 1117      |   |         |         | 1       |         |         |         | 2       | 2       |
| 1317      |   | 2       |         |         |         |         |         |         | 4       |
| 1418      |   |         |         | 2       |         |         |         |         | 4       |
| 1420      |   |         |         |         |         |         |         |         | 6       |
| 1621      |   |         |         |         |         |         | 3       |         | 6       |
| 1822      |   | 2       |         |         |         |         |         | 3       | 6       |
| 1825      |   |         |         |         |         |         | 4       |         | 8       |
| 2025      |   |         |         |         |         |         |         |         | 12      |
| 2125      |   |         |         |         |         |         |         |         | 12      |
| 2226      |   |         |         |         |         |         | 4       |         | 12      |
| 2328      |   | 3       |         |         |         |         | 4       |         | 12      |
| 2333      |   |         |         |         |         |         |         | 5       | 15      |

| Unit Size | High Efficiency Box Filter Cell Quantities $\eta=H11$ |         |         |         |         |         |
|-----------|---|---------|---------|---------|---------|---------|
|           | 290×493   | 290×595 | 390×493 | 390×595 | 493×595 | 595×595 |
| 0608      | 2   |         |         |         |         |         |
| 0609      |   |         | 2       |         |         |         |
| 0711      |   | 3       |         |         |         |         |
| 0811      |   | 2       |         | 1       |         |         |
| 0912      |   |         | 2       | 2       |         |         |
| 0913      |   |         | 2       | 2       |         |         |
| 0914      |   |         |         | 4       |         |         |
| 1015      |   | 2       |         |         |         | 2       |
| 1117      |   |         |         | 3       |         | 2       |
| 1317      |   | 2       |         |         |         | 4       |
| 1418      |   |         |         | 2       |         | 4       |
| 1420      |   |         |         |         |         | 6       |
| 1621      |   | 3       |         |         |         | 6       |
| 1822      |   | 2       |         | 2       |         | 6       |
| 1825      |   | 4       |         |         |         | 8       |
| 2025      |   |         |         |         |         | 12      |
| 2125      |   |         |         |         |         | 12      |
| 2226      |   | 4       |         |         |         | 12      |
| 2328      |   | 7       |         |         |         | 12      |
| 2333      |   |         |         | 5       |         | 15      |



## Filter Size Schedule

| Unit Size | Internal Panel Filter Cell Quantities |         |         | Internal Combine / Bag Filter Cell Quantities |         |         |
|-----------|---------------------------------------|---------|---------|---|---------|---------|
|           | 290×595                               | 595×290 | 595×595 | 288×592                                       | 592×288 | 592×592 |
| 39XT2532  | 20                                    |         |         | 20  |         |         |
| 39XT2832  | 5                                     |         | 20      | 5   |         | 20      |
| 39XT3132  | 25                                    |         |         | 25  |         |         |
| 39XT3438  | 6                                     |         | 30      | 6   |         | 30      |
| 39XT3841  | 6                                     | 36      |         | 6   | 36      |         |
| 39XT4444  | 49                                    |         |         | 49  |         |         |
| 39XT4750  | 8                                     |         | 56      | 8   |         | 56      |

## Purification Classification

|  |                 |                |                 |             |              |                   |             |
|--|-----------------|----------------|-----------------|-------------|--------------|-------------------|-------------|
| Purification Level<br>US Fed. Std. 209D<br>US Fed. Std. 209E | 100,000<br>M6.5 | 10,000<br>M5.5 | 1,000<br>M4.5   | 100<br>M3.5 | 10<br>M2.5   | 1<br>M1.5         | 0.1<br>M0.5 |
| Purification Level<br>VDI 2083                               | 6               | 5              | 4               | 3           | 2            | 1                 | 0           |
| Flow Pattern   | Turbulent Flow  |                | Transition Flow |             | Laminar Flow |                   |             |
| Filter Suffusion<br>Rate (%)                                 | 5~10            | 10~20          | 30~70           | >80         |              | >90               |             |
| First Level<br>DIN EN 779                                    | G4              |                |                 | F5          |              | F6                |             |
| Second Level<br>DIN EN 779<br>DIN 24 183/EN 1822             | F7              |                |                 | F9<br>H10   |              | H10<br>H12<br>H13 | H13         |
| Third Level<br>DIN 24 183/EN 1822                            | H12<br>H13      |                | H13             | H14         | H15          | H16               | H17         |

## Electric Heater Selection

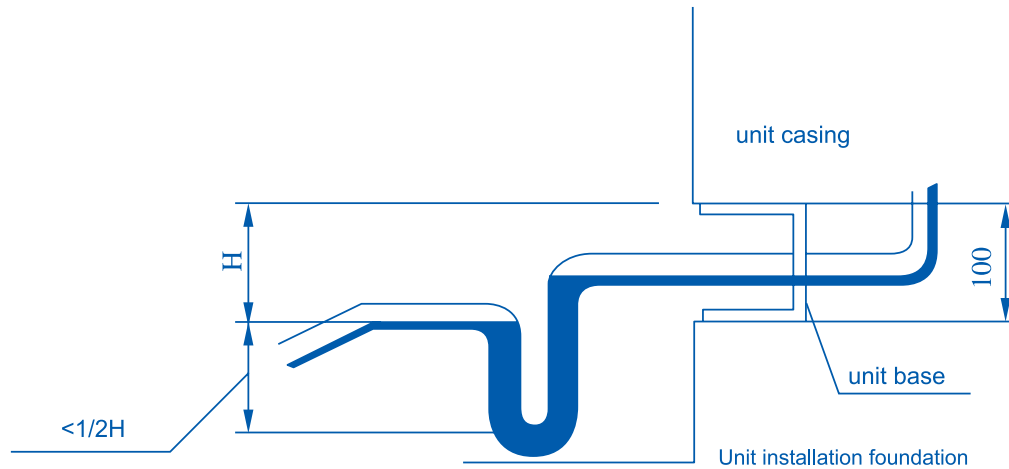
| No. | Unit Model |                                  | Face Area         | 1 Row Heater     | 2 Row Heater     | 3 Row Heater     |
|-----|------------|----------------------------------|-------------------|------------------|------------------|------------------|
|     | Unit Size  | Max. Capacity of Single Pipe (W) | (m <sup>2</sup> ) | power range (kW) | power range (kW) | power range (kW) |
| 1   | 39XT0608   | 690                              | 0.21              | <5               | 5~10             | 10~15            |
| 2   | 39XT0609   | 840                              | 0.25              | <6               | 6~12             | 10~18            |
| 3   | 39XT0711   | 1140                             | 0.34              | <8               | 8~16             | 16~24            |
| 4   | 39XT0811   | 1140                             | 0.49              | <12              | 12~24            | 24~36            |
| 5   | 39XT0912   | 1290                             | 0.65              | <14              | 14~28            | 28~42            |
| 6   | 39XT0913   | 1440                             | 0.72              | <16              | 16~32            | 32~48            |
| 7   | 39XT0914   | 1590                             | 0.80              | <18              | 18~36            | 36~54            |
| 8   | 39XT1015   | 1740                             | 0.99              | <26              | 26~52            | 52~78            |
| 9   | 39XT1117   | 2040                             | 1.29              | <30              | 30~60            | 60~90            |
| 10  | 39XT1317   | 2040                             | 1.56              | <35              | 35~70            | 70~105           |
| 11  | 39XT1418   | 2200                             | 1.83              | <40              | 40~80            | 80~120           |
| 12  | 39XT1420   | 2500                             | 2.08              | <45              | 45~90            | 90~135           |
| 13  | 39XT1621   | 2650                             | 2.55              | <48              | 48~96            | 96~144           |
| 14  | 39XT1822   | 2800                             | 3.07              | <60              | 60~120           | 120~180          |
| 15  | 39XT1825   | 3250                             | 3.56              | <70              | 70~140           | 140~210          |
| 16  | 39XT2025   | 3250                             | 4.00              | <85              | 85~170           | 170~255          |
| 17  | 39XT2125   | 3250                             | 4.21              | <90              | 90~180           | 180~270          |
| 18  | 39XT2226   | 3400                             | 4.63              | <95              | 95~190           | 190~285          |
| 19  | 39XT2328   | 3700                             | 5.29              | <105             | 105~210          | 210~315          |
| 20  | 39XT2333   | 4450                             | 6.36              | <125             | 125~250          | 250~375          |
| 21  | 39XT2532   | 5380                             | 6.33              | <145             | 145~290          | 290~435          |
| 22  | 39XT2832   | 5380                             | 7.24              | <160             | 160~320          | 320~480          |
| 23  | 39XT3132   | 5380                             | 8.15              | <175             | 175~350          | 350~525          |
| 24  | 39XT3438   | 6250                             | 10.56             | <225             | 225~450          | 450~675          |
| 25  | 39XT3841   | 6820                             | 12.66             | <285             | 285~570          | 570~855          |
| 26  | 39XT4444   | 7380                             | 16.03             | <350             | 350~700          | 700~1050         |
| 27  | 39XT4750   | 8510                             | 19.98             | <455             | 455~910          | 910~1365         |

- Note :
1. Star connection is used in the wiring of electric heaters. Multi-group control is available, in which the capacity for each group is generally 30kW or less. The power supply is 3-phase 380V.
  2. Minimum air velocity is 2m/s.
  3. 3M module holds maximum of 3 row heater.
  4. Capacity exceeding 3 row should choose two separated heaters in 6M module section.

1. Our company can help you select the best unit according to different requirements by our selection software.

2. The base requirements of the units:

- The base is designed according to the length and weight of units.
- Unit base shall be higher than the ground level in order to install condensate trap. See the figure below:



Note:  $H = \text{the maximum negative pressure (mm)} + 50\text{mm}$

3. Coil pressures:

- The working pressure of cooling coils and heating coils is 1.6MPa.
- The maximum pressure of steam coils is no more than 1.4MPa.

4. Preheat coils should be started or precautions taken before start to protect coil from freezing operation with fresh air temperature below  $0^{\circ}\text{C}$ .

5. The fan outlet and discharge should be connected with canvas.

6. The water in the coil should be drawn off completely when the unit is stopped and below freezing temperature. Antifreeze shall be poured into pipe if remaining water cannot be drawn off completely.

7. Insulation measures have been sufficiently considered and condensation in unit surface cannot happen in normal situation.

8. Check to keep enough space for daily maintenance.

9. The unit supply air temperature should be no more than  $80^{\circ}\text{C}$  (when heating). If it is, please give us clear indication, so we can adopt high temperature bearing special motor.

10. Details should be illustrated in the order when customers have special requirements such as effective air dampers, copper headers, stainless drainpans, film humidifiers, secondary high efficiency filters.

11. Details should be illustrated in the order when customers have requirements such as noise attenuators, secondary return air, purification, converter and heat recovery.

Steam pressure: (0.02~0.4) MPa.



Carrier improves the world around us; Carrier improves people's lives; our products and services improve building performance; our culture of improvement will not allow us to rest when it comes to the environment.



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|                 |                    |
|-----------------|--------------------|
| Version:        | CAT_39XT_E-1307_02 |
| Supersede:      | CAT_39XT_E-1204_01 |
| Effective Date: | July, 2013         |