



United Technologies

turn to the experts 



39XTEC Air Handling Unit

Air flow: 2000–200000m³/h



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_39XTEC_E_1510_03 |
| Supersede: | CAT_39XTEC_E_1411_02 |
| Effective Date: | Oct, 2015 |



Turn To The Experts

Founded by the inventor of modern air conditioning, Carrier is the world's leader in high-technology heating, air-conditioning and refrigeration solutions. Carrier experts provide sustainable solutions, integrating energy-efficient products, building controls and energy services for residential, commercial, retail, transport and food service customers. Carrier is a part of UTC Building & Industrial Systems, a unit of United Technologies Corp., a leading provider to the aerospace and building systems industries worldwide.

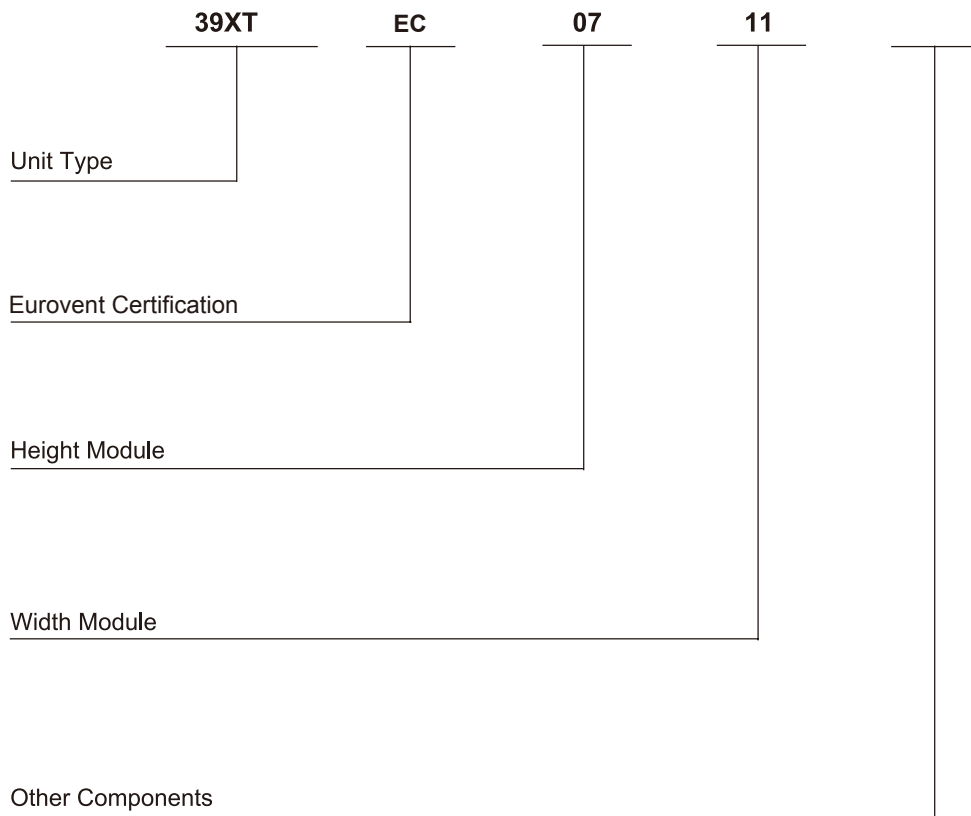
With a broad portfolio of advanced technical patent awards, our global R&D center in Shanghai develops innovative heat, ventilation and air-conditioning (HVAC) solutions.



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



Identification & Dimension



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

39XTEC

(1) Unit Height = Height Module × 100 + 104 + 100 (base)

(2) Unit Width = Width Module × 100 + 104

Example: 39XTEC0711

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

39XTEC 2000~200000m³/h

Features

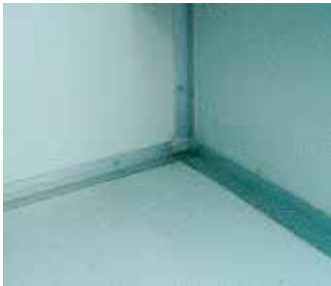
Corrugated damper flexible to adjust

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



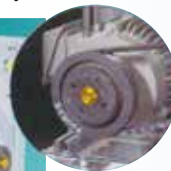
Unit panel inside

- 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.



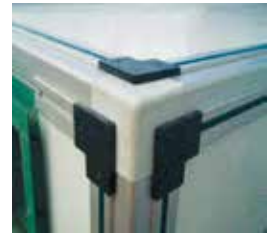
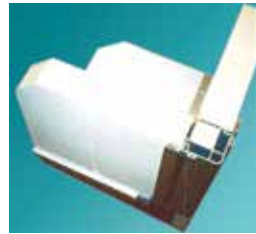
High-performance coils

- 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.



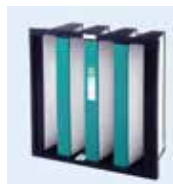
High airtight construction, double-skin panel

- 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)

39XTEC 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.

| Casing Performance | 39XTEC |
|-------------------------------|--------|
| Mechanical Strength of Casing | D1(M) |
| Thermal Bridge Factor | TB1 |
| Thermal Transmittance | T1 |
| Air Leakage Rate(-400/+700Pa) | L1(M) |
| Filter Bypass Leakage | F9(M) |

EN1886: Europe standard for air-handling unit

| Casing Class | Max. relative deflection (mm.m-1) | Withstand Max. Fan Pressure |
|--------------|-----------------------------------|-----------------------------|
| D1 | 4 | Yes |
| D2 | 10 | Yes |
| D3 | exceeding 10 | 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 |

| Leakage class of casing | Max. air leakage rate l/sm^2 (-400Pa) | Max. air leakage rate 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 $\pm 1000Pa$. Withstand Max. Fan Pressure means that the unit will not suffer from permanent deformation at $\pm 2500Pa$.

Thermal Bridge Factor

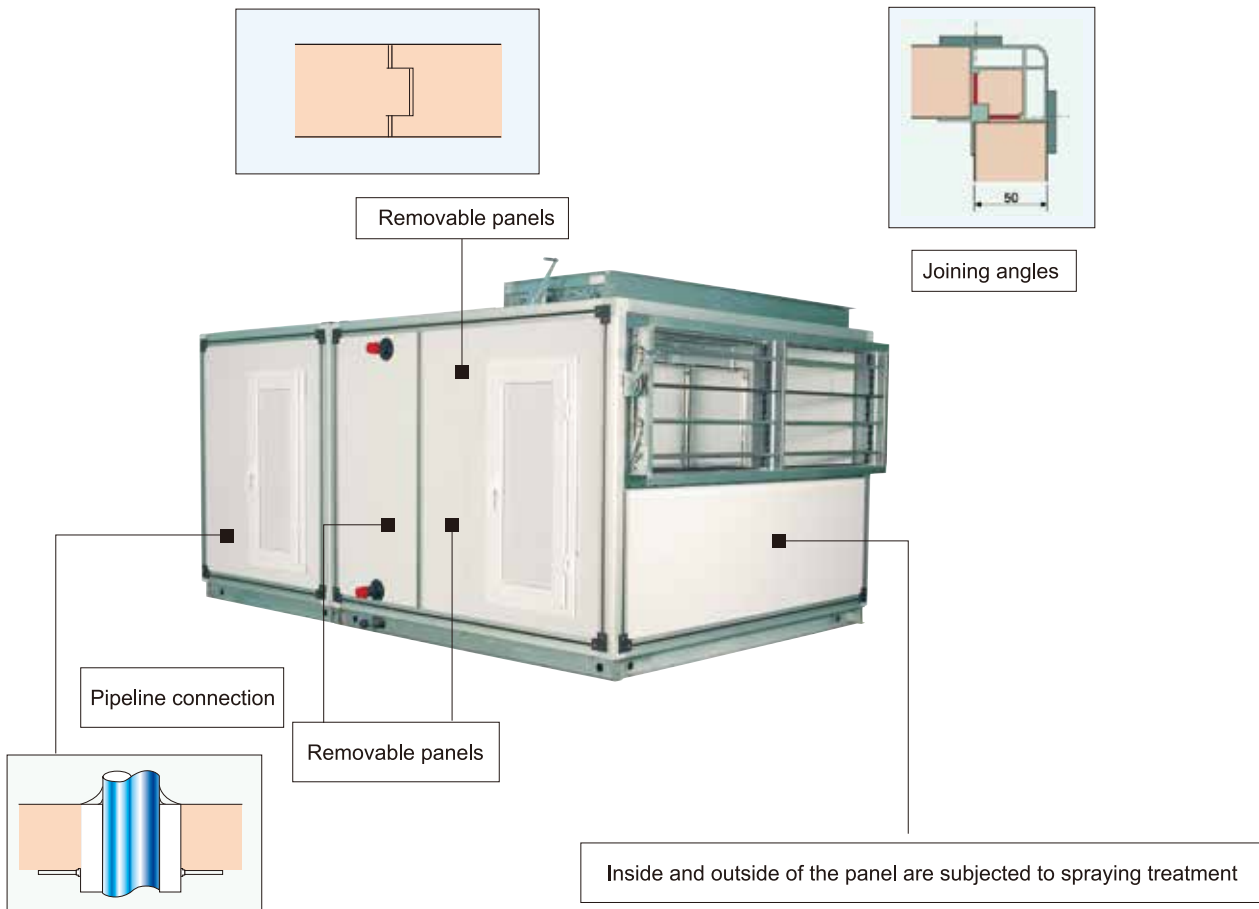
Thermal Bridge Factor $K_b = T_{min}/T_{air}$, where T_{min} refers to the difference between temperature inside the unit and outer surface temperature of the unit, and T_{air} the difference between temperature inside the unit and ambient temperature.

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.

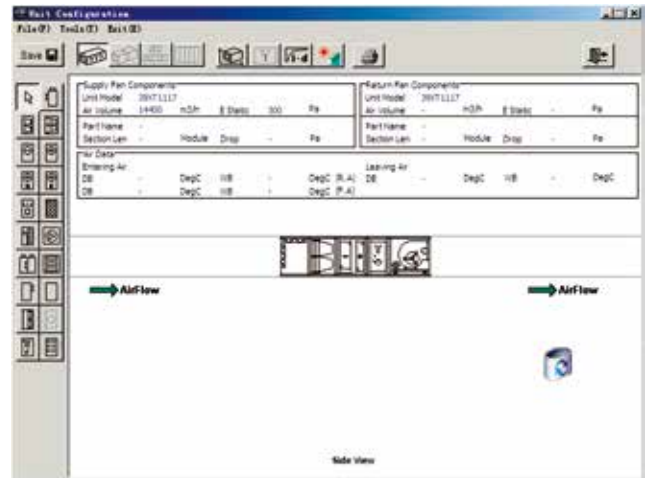
Robust casing strength

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

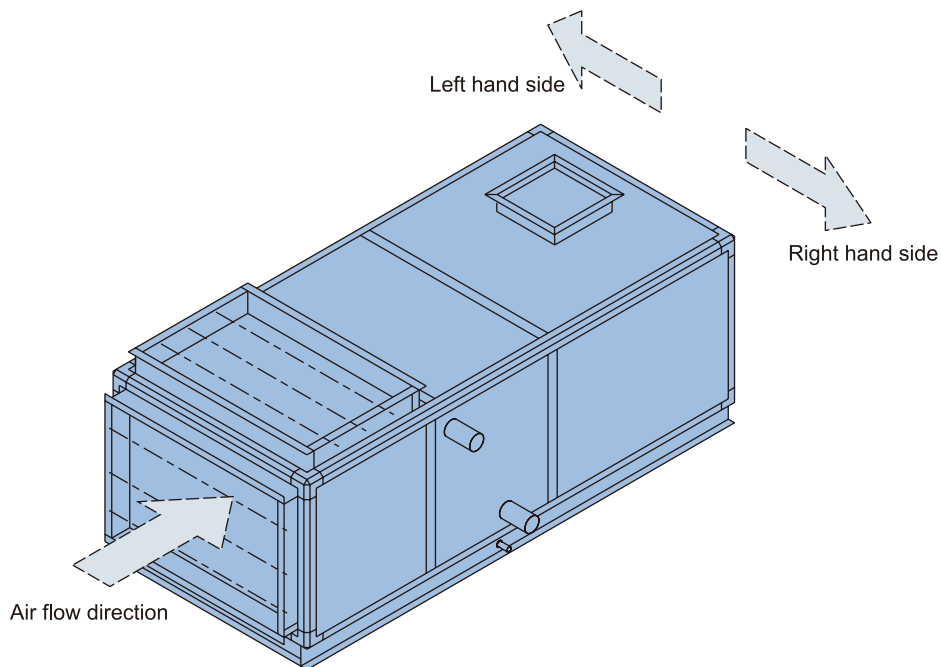
Latest Selection software: AHU-Designer

- 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.



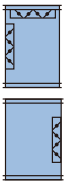
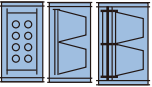














Quick Selection

| Model | Coil Face Area (m ²) | Air Volume (m ³ /h) | | | Inside Dimension of Damper(mm*mm) | 39XTEC Dimensions(mm) | |
|------------|----------------------------------|--------------------------------|---------|----------|-----------------------------------|-----------------------|-------|
| | | Face Velocity | | | | Height | Width |
| | | 2.25 m/s | 2.5 m/s | 2.75 m/s | | | |
| 39XTEC0608 | 0.23 | 1863 | 2070 | 2277 | 704*322.5 | 704 | 904 |
| 39XTEC0609 | 0.32 | 2592 | 2880 | 3168 | 804*322.5 | 704 | 1004 |
| 39XTEC0711 | 0.46 | 3726 | 4140 | 4554 | 1004*322.5 | 804 | 1204 |
| 39XTEC0811 | 0.57 | 4617 | 5130 | 5643 | 1004*322.5 | 904 | 1204 |
| 39XTEC0912 | 0.69 | 5589 | 6210 | 6831 | 1104*322.5 | 1004 | 1304 |
| 39XTEC0913 | 0.76 | 6156 | 6840 | 7524 | 1204*480 | 1004 | 1404 |
| 39XTEC0914 | 0.84 | 6804 | 7560 | 8316 | 1304*480 | 1004 | 1504 |
| 39XTEC1015 | 1.06 | 8586 | 9540 | 10494 | 1404*480 | 1104 | 1604 |
| 39XTEC1117 | 1.31 | 10611 | 11790 | 12969 | 1604*480 | 1204 | 1804 |
| 39XTEC1317 | 1.68 | 13608 | 15120 | 16632 | 1604*480 | 1404 | 1804 |
| 39XTEC1418 | 1.90 | 15390 | 17100 | 18810 | 1704*637 | 1504 | 1904 |
| 39XTEC1420 | 2.14 | 17334 | 19260 | 21186 | 1904*637.5 | 1504 | 2104 |
| 39XTEC1621 | 2.62 | 21222 | 23580 | 25938 | 2004*637.5 | 1704 | 2204 |
| 39XTEC1822 | 3.26 | 26406 | 29340 | 32274 | 2104*795 | 1904 | 2304 |
| 39XTEC1825 | 3.75 | 30375 | 33750 | 37125 | 2404*795 | 1904 | 2604 |
| 39XTEC2025 | 4.04 | 32724 | 36360 | 39996 | 2404*795 | 2104 | 2604 |
| 39XTEC2125 | 4.33 | 35073 | 38970 | 42867 | 2404*952.5 | 2204 | 2604 |
| 39XTEC2226 | 4.82 | 39042 | 43380 | 47718 | 2504*952.5 | 2304 | 2704 |
| 39XTEC2328 | 5.39 | 43659 | 48510 | 53361 | 2704*952.5 | 2404 | 2904 |
| 39XTEC2330 | 5.81 | 47061 | 52290 | 57519 | 2904*952.5 | 2404 | 3004 |
| 39XTEC2333 | 6.44 | 52164 | 57960 | 63756 | 3204*952.5 | 2404 | 3404 |
| 39XTEC2532 | 8.06 | 65286 | 72540 | 79794 | 3104*952.5 | 2604 | 3304 |
| 39XTEC2832 | 8.97 | 72657 | 80730 | 88803 | 3104*952.5 | 2904 | 3304 |
| 39XTEC3132 | 9.89 | 80109 | 89010 | 97911 | 3104*1267.5 | 3204 | 3304 |
| 39XTEC3438 | 12.16 | 98496 | 109440 | 120384 | 3704*1267.5 | 3504 | 3904 |
| 39XTEC3841 | 14.47 | 117207 | 130230 | 143253 | 4004*1582.5 | 3904 | 4204 |
| 39XTEC4444 | 17.48 | 141588 | 157320 | 173052 | 4304*1582.5 | 4504 | 4504 |
| 39XTEC4750 | 21.75 | 176175 | 195750 | 215325 | 4904*1582.5 | 4804 | 5104 |

Notes:1. The unit height does not include the damper on the top and the base of 100mm(0808-2333)/200mm(2532-4750)

2. Above table is just for your reference. Please refer Carrier AHU selection software for detail information.

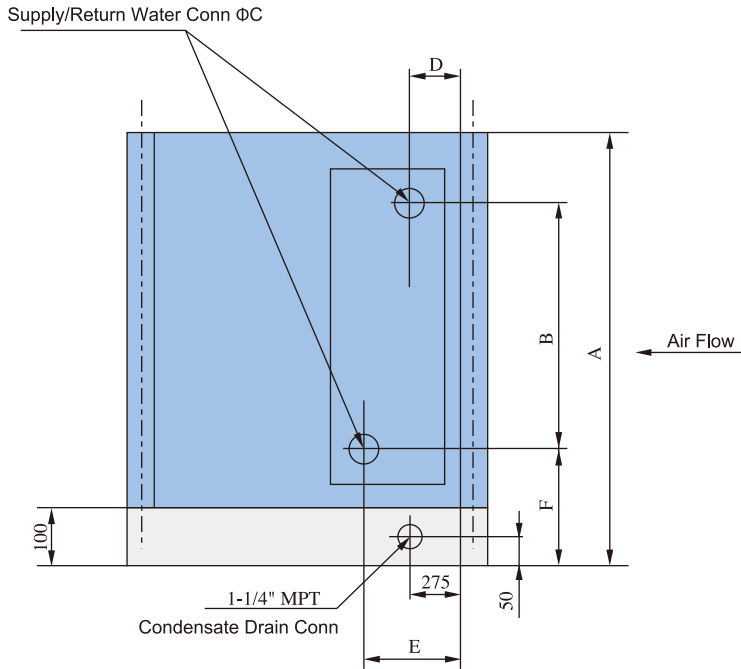
Standard Components

| No. | Unit Section | Diagram | Section Length (M: Module) | Remark |
|-----|-----------------------------------|---|--|---|
| 1 | Return/Mixing/Supply Chamber |  | (0608~0912) 5M (0913~1317) 6M (1418~1621) 8M (1822~2025) 9M (2125~2333) 11M (2532~2832) 12M (3132~3438) 15M (3841~4750) 18M | 1. Could be used as access section 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 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) 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)



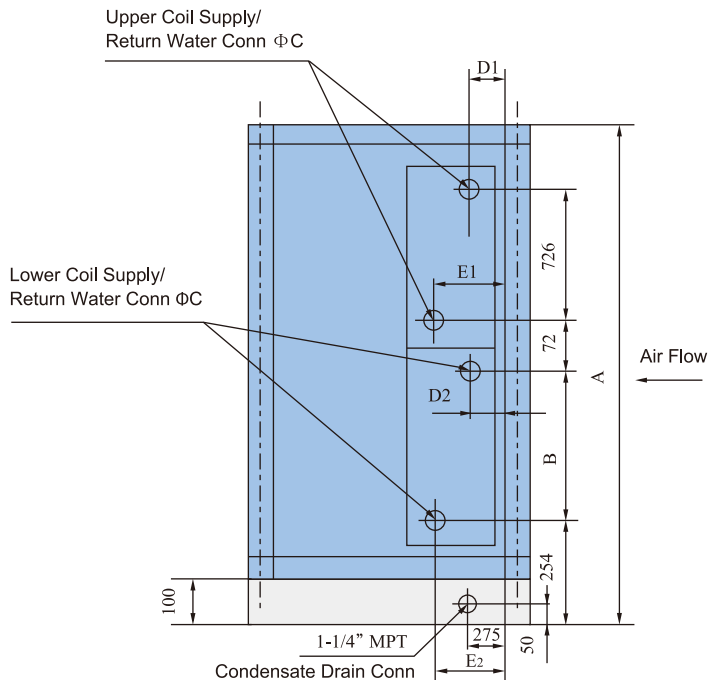
*MPT- Male Thread

(mm)

| 39XTEC | A | B | ϕ C | 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)

| 39XTEC | Coil Row | D | E | ϕ C |
|-----------|-----------------|----|-----|-----------------|
| 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)

| 39XTEC | A | B | ϕ C | ϕ F |
|--------|------|------|----------|----------|
| 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)

| 39XTEC | Coil Row | D | E | ϕ C |
|-----------|-----------------|-----|-----|-----------------|
| 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 |
|------------|-------------------|----------------|--|
| 39XTEC2532 | 2 | 5100*2 | Φ89*4 |
| 39XTEC2832 | 2 | 5100*1 | Φ89*2 |
| | | 6100*1 | 6100 Upper coil: Φ48*2 6100 Lower coil: Φ89*2 |
| 39XTEC3132 | 2 | 5100*1 | Φ89*2 |
| | | 7100*1 | 7100 Upper coil: Φ48*2 7100 Lower coil: Φ89*2 |
| 39XTEC3438 | 4 | 660*2 | 660 Upper coil: Φ48*4 |
| | | | 660 Lower coil: Φ89*4 |
| | | 760*2 | 760 Upper coil: Φ48*4 |
| | | | 760 Lower coil: Φ60*4 |
| 39XTEC3841 | 4 | 760*2 | 760 Upper coil: Φ48*4 |
| | | | 760 Lower coil: Φ89*4 |
| | | 770*2 | 770 Upper coil: Φ48*4 |
| | | | 770 Lower coil: Φ89*4 |
| 39XTEC4444 | 6 | 570*4 | Φ89*8 |
| | | 670*2 | 670 Upper coil: Φ48*4 670 Lower coil: Φ89*4 |
| 39XTEC4750 | 6 | 580*2 | Φ89*4 |
| | | 680*4 | 680 Upper coil: Φ48*8 680 Lower coil: Φ89*8 |

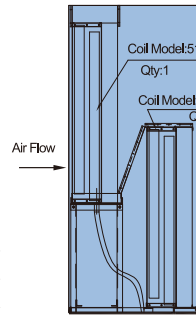


Figure 1: 39XT 2532

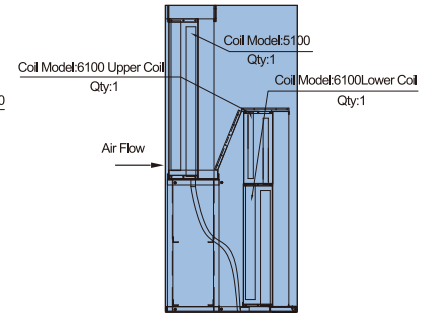


Figure 2: 39XT 2832

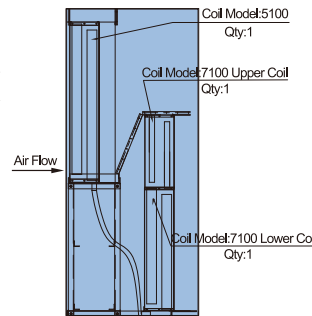


Figure 3: 39XT 3132

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

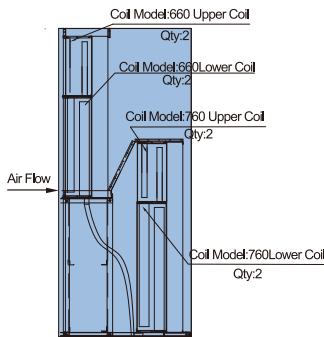


Figure 4: 39XT 3438

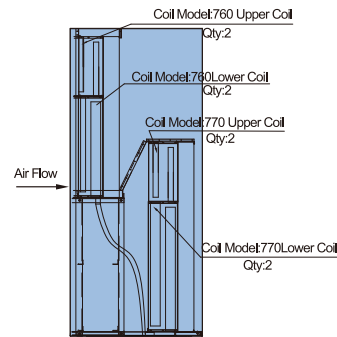


Figure 5: 39XT 3841

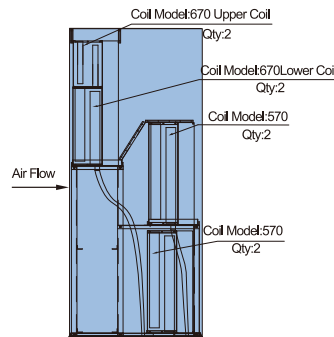


Figure 6: 39XT 4444

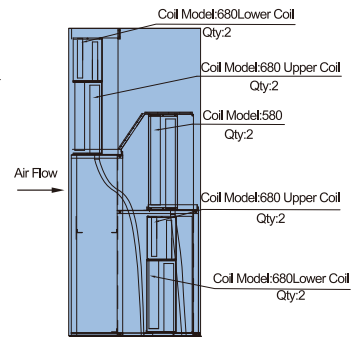


Figure 7: 39XT 4750

Heating Coil (2532~4750)

| Unit Size | Total Qty of Coil | Coil Model*Qty | Coil Diameter*Qty |
|------------|-------------------|----------------|-------------------|
| 39XTEC2532 | 2 | 4100*2 | Φ48*4 |
| 39XTEC2832 | 2 | 4100*1 | Φ48*2 |
| | | 5100*1 | Φ48*2 |
| 39XTEC3132 | 2 | 5100*2 | Φ48*4 |
| 39XTEC3438 | 6 | 360*2 | Φ48*4 |
| | | 460*4 | Φ48*8 |
| 39XTEC3841 | 6 | 460*3 | Φ48*6 |
| | | 470*3 | Φ48*6 |
| 39XTEC4444 | 6 | 470*2 | Φ48*4 |
| | | 570*4 | Φ48*8 |
| 39XTEC4750 | 6 | 580*6 | Φ48*12 |

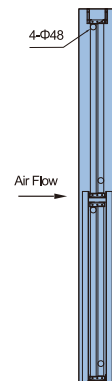


Figure 1: 39CBF/39CBF 2532, 2832, 3132

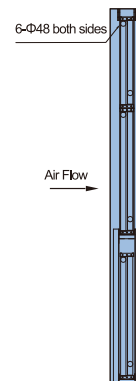
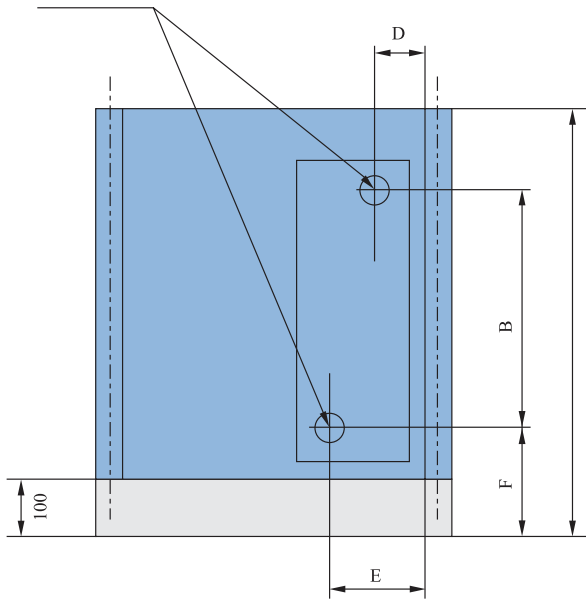


Figure 2: 39CBF/39CBF 3438, 4444, 4750

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

Steam Coil Connection

Supply/Return Water Conn Φ C

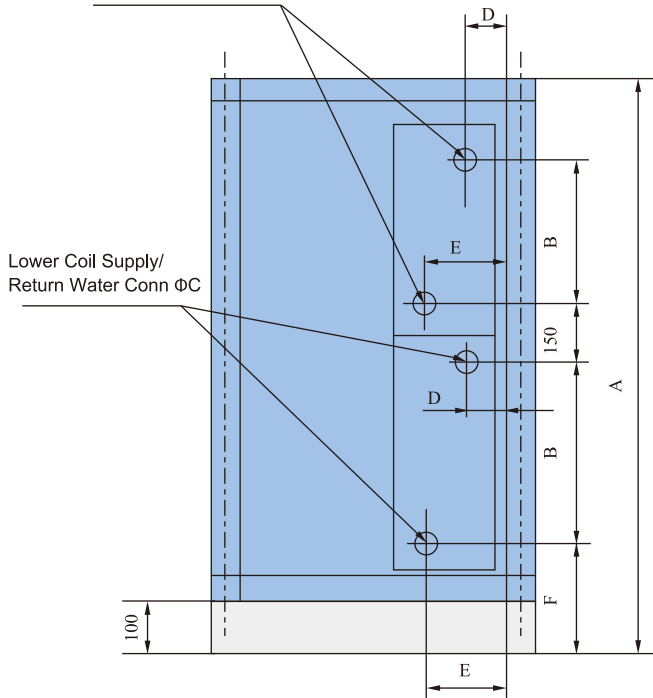


(mm)

| 39XTEC | A | B | ϕ C | F | D | E |
|------------|------|-----|----------|-----|----|-----|
| 39XTEC0608 | 804 | 347 | 2" MPT | 250 | 80 | 150 |
| 39XTEC0609 | 804 | 347 | 2" MPT | 250 | 80 | 150 |
| 39XTEC0711 | 904 | 418 | 2" MPT | 250 | 80 | 150 |
| 39XTEC0811 | 1004 | 560 | 2" MPT | 250 | 80 | 150 |
| 39XTEC0912 | 1104 | 631 | 2" MPT | 250 | 80 | 150 |
| 39XTEC0913 | 1104 | 631 | 2" MPT | 250 | 80 | 150 |
| 39XTEC0914 | 1104 | 631 | 2" MPT | 250 | 80 | 150 |
| 39XTEC1015 | 1204 | 738 | 2" MPT | 250 | 80 | 150 |
| 39XTEC1117 | 1304 | 738 | 2" MPT | 250 | 80 | 150 |

Note: the data above is just for your reference

Upper Coil Supply/
Return Water Conn Φ C



(mm)

| 39XTEC | A | B | ϕ C | F | D | E |
|------------|------|-----|----------|-----|----|-----|
| 39XTEC1317 | 1504 | 489 | 2" MPT | 250 | 80 | 150 |
| 39XTEC1418 | 1604 | 520 | 2" MPT | 250 | 80 | 150 |
| 39XTEC1420 | 1604 | 520 | 2" MPT | 250 | 80 | 150 |
| 39XTEC1621 | 1804 | 631 | 2" MPT | 250 | 80 | 150 |
| 39XTEC1822 | 2004 | 738 | 2" MPT | 250 | 80 | 150 |
| 39XTEC1825 | 2004 | 738 | 2" MPT | 250 | 80 | 150 |
| 39XTEC2025 | 2204 | 844 | 2" MPT | 250 | 80 | 150 |
| 39XTEC2125 | 2304 | 844 | 2" MPT | 250 | 80 | 150 |
| 39XTEC2226 | 2404 | 844 | 2" MPT | 250 | 80 | 150 |
| 39XTEC2328 | 2504 | 884 | 2" MPT | 250 | 80 | 150 |
| 39XTEC2333 | 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

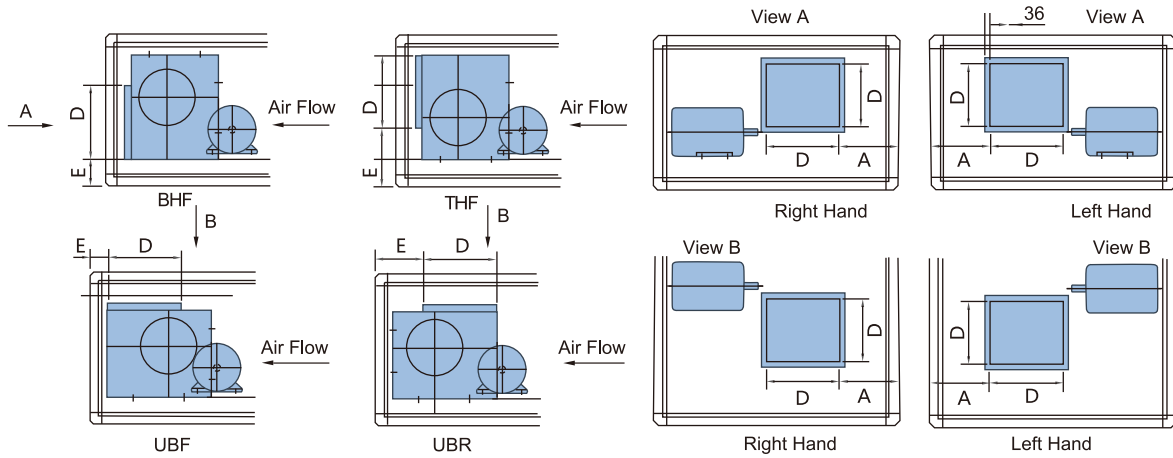
Fan & Motor (0608~2333)

(mm)

| Unit Size | Fan Model | Max. Motor Power (kW) | Max. Motor Model | Fan section length | |
|------------|-----------|-----------------------|------------------|--------------------|----------|
| | | | | Horizontal | Vertical |
| 39XTEC0608 | FC160 | 1.5 | Y90 | 604 | 904 |
| | FC180 | | | 604 | 904 |
| 39XTEC0609 | FC180 | 2.2 | Y100 | 604 | 904 |
| | FC200 | | | 704 | 904 |
| 39XTEC0711 | FC200 | 3.7 | Y112 | 704 | 904 |
| | FC225 | | | 704 | 904 |
| 39XTEC0811 | FC225 | 3.7 | Y112 | 704 | 904 |
| | FC/BC250 | | | 704 | 904 |
| 39XTEC0912 | FC/BC250 | 5.5 | Y132 | 704 | 904 |
| | FC/BC280 | | | 804 | 904 |
| 39XTEC0913 | FC/BC280 | 5.5 | Y132 | 804 | 904 |
| | FC/BC315 | | | 804 | 904 |
| 39XTEC0914 | FC/BC315 | 7.5 | Y132 | 804 | 904 |
| | FC/BC355 | | | 904 | 904 |
| 39XTEC1015 | FC/BC355 | 7.5 | Y132 | 904 | 904 |
| | FC/BC400 | | | 904 | 904 |
| 39XTEC1117 | FC/BC400 | 11 | Y160 | 904 | 904 |
| | FC/BC450 | | | 1104 | 1104 |
| 39XTEC1317 | FC/BC400 | 15 | Y160 | 904 | 904 |
| | FC/BC450 | | | 1104 | 1104 |
| 39XTEC1418 | FC/BC450 | 15 | Y160 | 1104 | 1104 |
| | FC/BC500 | | | 1104 | 1104 |
| 39XTEC1420 | FC/BC500 | 18.5 | Y180 | 1104 | 1104 |
| | FC/BC560 | | | 1304 | 1304 |
| 39XTEC1621 | FC/BC560 | 18.5 | Y180 | 1304 | 1304 |
| | FC/BC630 | | | 1404 | 1404 |
| 39XTEC1822 | FC/BC560 | 18.5 | Y180 | 1304 | |
| | FC/BC630 | | | 1404 | |
| 39XTEC1825 | FC/BC630 | 30 | Y200 | 1404 | |
| | FC/BC710 | | | 1504 | |
| 39XTEC2025 | FC/BC630 | 30 | Y200 | 1404 | |
| | FC/BC710 | | | 1504 | |
| 39XTEC2125 | FC/BC710 | 30 | Y200 | 1504 | |
| | FC/BC800 | | | 1704 | |
| 39XTEC2226 | FC/BC710 | 30 | Y200 | 1504 | |
| | FC/BC800 | | | 1704 | |
| 39XTEC2328 | FC/BC800 | 37 | Y225 | 1704 | |
| | FC/BC900 | | | 1904 | |
| 39XTEC2333 | FC/BC800 | 45 | Y225 | 1704 | |
| | FC/BC900 | | | 1904 | |

Fan

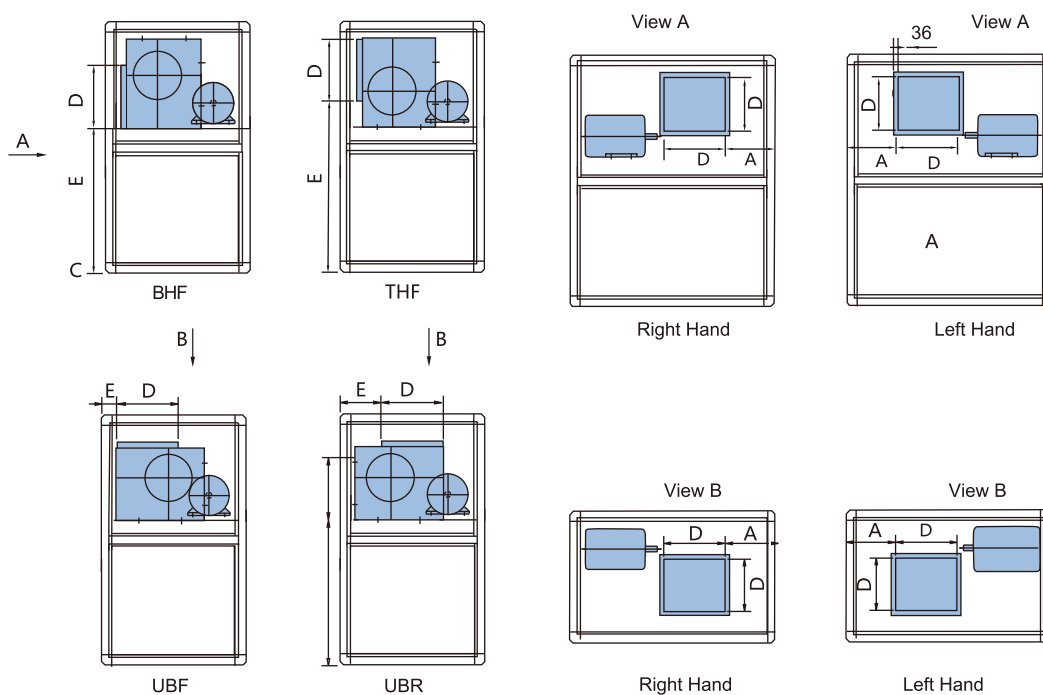
Fan Arrangement- Horizontal Unit (0608-2333)



(mm)

| Unit Size | Fan Model | A | D | E | | | |
|------------|-----------|-------|--------|-------|-------|-----|-------|
| | | | | THF | BHF | UBF | UBR |
| 39XTEC0608 | FC160 | 231.0 | 205.0 | 292.5 | 170.0 | 127 | 199.0 |
| | FC180 | 186.5 | 229.0 | 292.5 | 170.0 | 127 | 224.0 |
| 39XTEC0609 | FC180 | 298.0 | 229.0 | 292.5 | 170.0 | 127 | 224.0 |
| | FC200 | 267.5 | 256.0 | 300.5 | 170.0 | 127 | 233.0 |
| 39XTEC0711 | FC200 | 367.5 | 256.0 | 300.5 | 170.0 | 127 | 233.0 |
| | FC225 | 318.5 | 288.0 | 314.5 | 170.0 | 127 | 270.0 |
| 39XTEC0811 | 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 |
| 39XTEC0912 | 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 |
| 39XTEC0913 | 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 |
| 39XTEC0914 | 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 |
| 39XTEC1015 | 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 |
| 39XTEC1117 | 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 |
| 39XTEC1317 | 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 |
| 39XTEC1418 | 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 |
| 39XTEC1420 | 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 |
| 39XTEC1621 | 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 |
| 39XTEC1822 | 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 |
| 39XTEC1825 | 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 |
| 39XTEC2025 | 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 |
| 39XTEC2125 | 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 |
| 39XTEC2226 | 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 |
| 39XTEC2328 | 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 |
| 39XTEC2333 | 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 |
| 39XTEC0608 | FC160 | 231.0 | 205 | 996.5 | 874.0 | 127 | 199 |
| | FC180 | 186.5 | 229 | 996.5 | 874.0 | 127 | 224 |
| 39XTEC0609 | FC180 | 298.0 | 229 | 996.5 | 874.0 | 127 | 224 |
| | FC200 | 267.5 | 256 | 1004.5 | 874.0 | 127 | 233 |
| 39XTEC0711 | FC200 | 367.5 | 256 | 1104.5 | 974.0 | 127 | 233 |
| | FC225 | 318.5 | 288 | 1118.5 | 974.0 | 127 | 270 |
| 39XTEC0811 | FC225 | 318.5 | 288 | 1218.5 | 1074.0 | 127 | 270 |
| | FC/BC250 | 318.5 | 322 | 1230.0 | 1074.0 | 127 | 259 |
| 39XTEC0912 | FC/BC250 | 368.5 | 322 | 1330.0 | 1174.0 | 127 | 259 |
| | FC/BC280 | 342.5 | 361 | 1347.0 | 1174.0 | 127 | 308 |
| 39XTEC0913 | FC/BC280 | 392.5 | 361 | 1347.0 | 1174.0 | 127 | 308 |
| | FC/BC315 | 349.5 | 404 | 1366.0 | 1174.0 | 127 | 295 |
| 39XTEC0914 | FC/BC315 | 399.5 | 404 | 1366.0 | 1174.0 | 127 | 295 |
| | FC/BC355 | 402.5 | 453 | 1391.0 | 1199.0 | 127 | 317 |
| 39XTEC1015 | FC/BC355 | 452.5 | 453 | 1491.0 | 1299.0 | 127 | 317 |
| | FC/BC400 | 401.5 | 507 | 1519.0 | 1299.0 | 127 | 347 |
| 39XTEC1117 | FC/BC400 | 501.5 | 507 | 1619.0 | 1399.0 | 127 | 347 |
| | FC/BC450 | 441.5 | 569 | 1648.0 | 1399.0 | 127 | 375 |
| 39XTEC1317 | FC/BC400 | 501.5 | 507 | 1819.0 | 1599.0 | 127 | 347 |
| | FC/BC450 | 396.5 | 569 | 1848.0 | 1599.0 | 127 | 375 |
| 39XTEC1418 | FC/BC450 | 446.5 | 569 | 1948.0 | 1699.0 | 127 | 375 |
| | FC/BC500 | 427.5 | 638 | 1969.0 | 1699.0 | 127 | 397 |
| 39XTEC1420 | FC/BC500 | 527.5 | 638 | 1969.0 | 1699.0 | 127 | 397 |
| | FC/BC560 | 518.5 | 715 | 2060.0 | 1759.0 | 127 | 428 |
| 39XTEC1621 | FC/BC560 | 518.5 | 715 | 2260.0 | 1959.0 | 127 | 428 |
| | FC/BC630 | 432.5 | 801 | 2302.0 | 1959.0 | 127 | 471 |

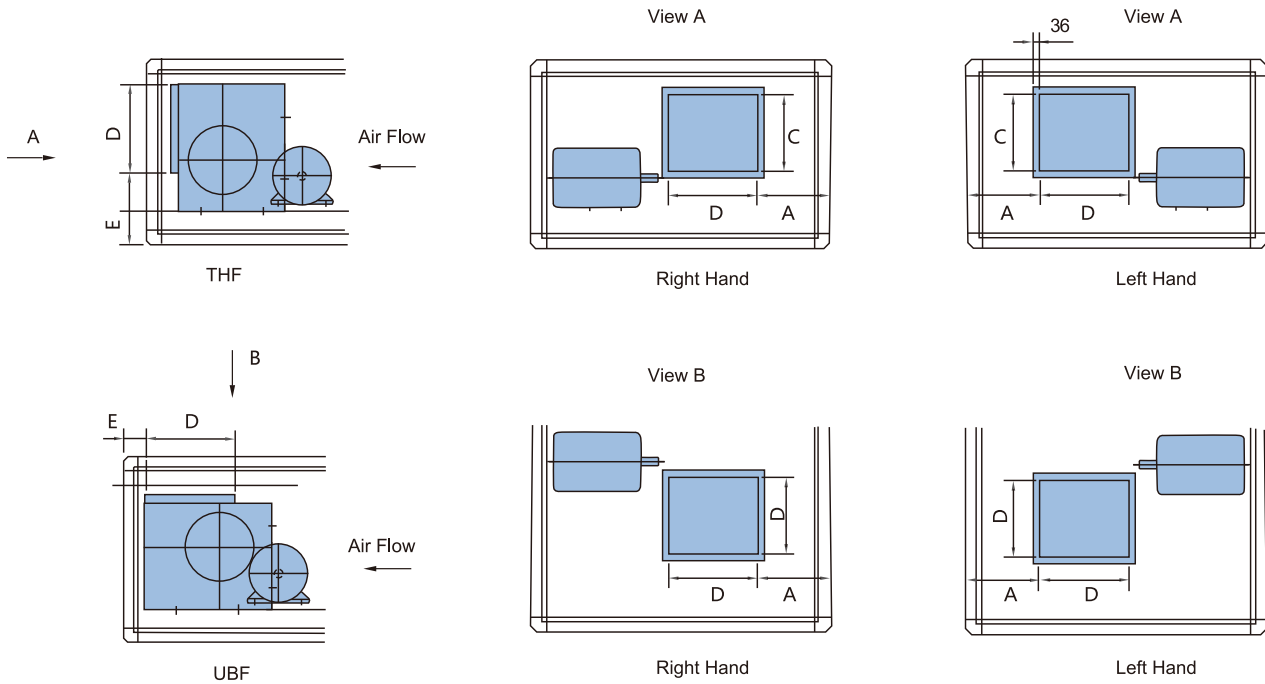
Fan

Fan & Motor (2532~4750)

(mm)

| Unit Size | Fan Model | Max. Motor Power (kW) | Max. Motor Model | Fan Section Length | |
|------------|-----------|-----------------------|------------------|--------------------|------|
| | | | | THF | UBF |
| 39XTEC2532 | BC900 | 45 | Y225 | 2604 | 2604 |
| | BC1000 | 55 | Y250 | 2604 | 2604 |
| 39XTEC2832 | BC1000 | 55 | Y250 | 2604 | 2604 |
| | BC1120 | 90 | Y280 | 2804 | 2804 |
| 39XTEC3132 | BC1000 | 55 | Y250 | 2604 | 2604 |
| | BC1120 | 90 | Y280 | 2804 | 2804 |
| 39XTEC3438 | BC1250 | 90 | Y280 | 2904 | 2904 |
| 39XTEC3841 | BC1250 | 90 | Y280 | 2904 | 2904 |
| | BC1400 | 132 | Y315 | 3704 | 4104 |
| 39XTEC4444 | BC1400 | 132 | Y315 | 3704 | 4104 |
| 39XTEC4750 | BC1600 | 132 | Y315 | 4004 | 4404 |

Fan Arrangement - Horizontal Unit (2532~4750)



(mm)

| Unit Size | Fan Model | A | D | E | |
|------------|-----------|-------|------|-------|-----|
| | | | | THF | UBF |
| 39XTEC2532 | BC900 | 940 | 1130 | 834 | 284 |
| | BC1000 | 788.5 | 1267 | 876.5 | 195 |
| 39XTEC2832 | BC1000 | 788.5 | 1267 | 876.5 | 195 |
| | BC1120 | 561 | 1422 | 987 | 200 |
| 39XTEC3132 | BC1000 | 788.5 | 1267 | 876.5 | 195 |
| | BC1120 | 561 | 1422 | 987 | 200 |
| 39XTEC3438 | BC1250 | 1043 | 1524 | 1156 | 104 |
| 39XTEC3841 | BC1250 | 1343 | 1524 | 1156 | 104 |
| | BC1400 | 1208 | 1794 | 1208 | 150 |
| 39XTEC4444 | BC1400 | 1358 | 1794 | 1208 | 150 |
| 39XTEC4750 | 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

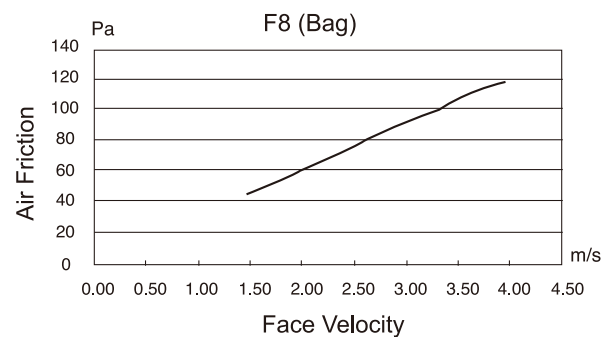
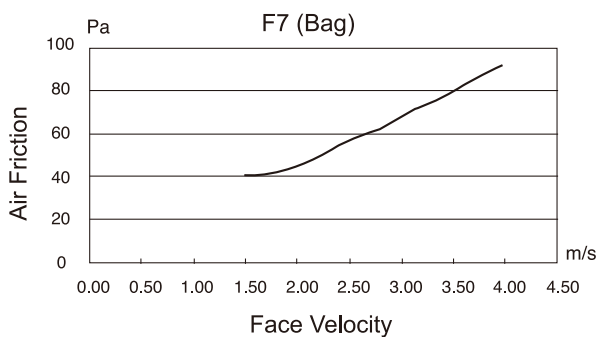
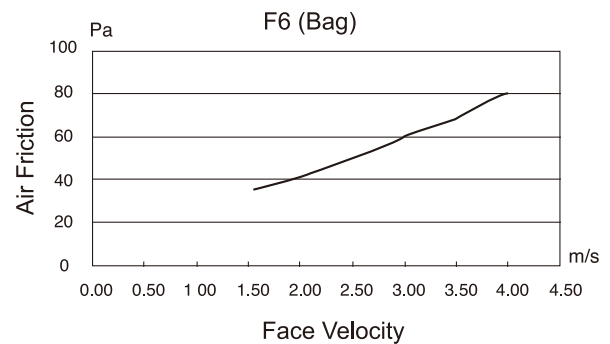
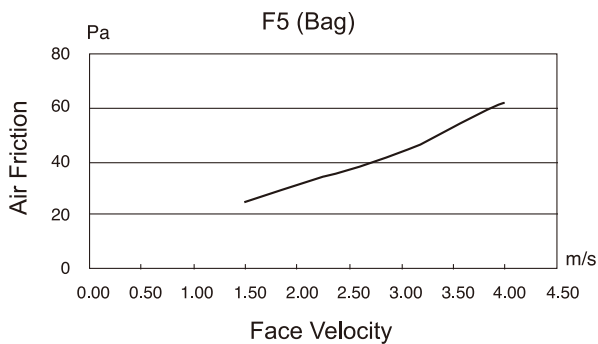
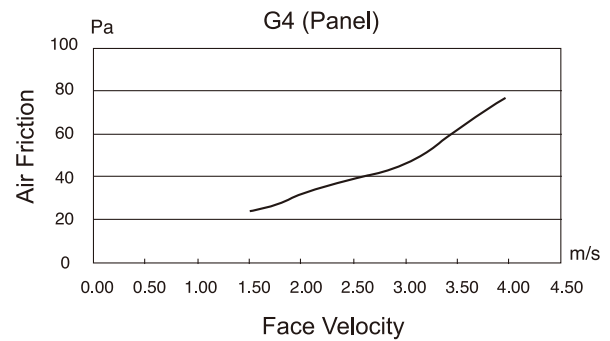
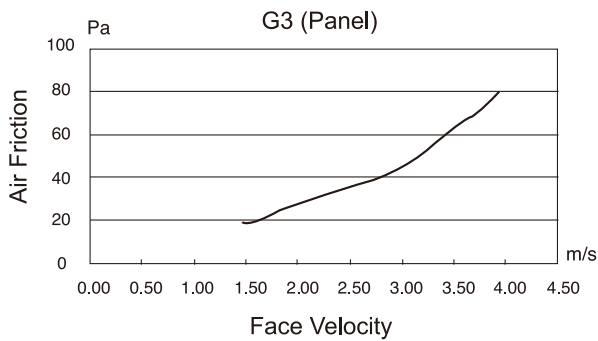
2" Internal Low Velocity Filter

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 η =G3 | | | | | | | | | |
|-----------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 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 η =G3 | | | | | |
|-----------|--|---------|---------|---------|---------|---------|
| | 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 39XTEC | 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 39XTEC | 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 |
| 39XTEC2532 | | | 20 | | | 20 |
| 39XTEC2832 | | 5 | 20 | | 5 | 20 |
| 39XTEC3132 | | | 25 | | | 25 |
| 39XTEC3438 | | 6 | 30 | | 6 | 30 |
| 39XTEC3841 | 6 | | 36 | 6 | | 36 |
| 39XTEC4444 | | | 49 | | | 49 |
| 39XTEC4750 | | 8 | 56 | | 8 | 56 |

Purification Classification

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

Electric Heater

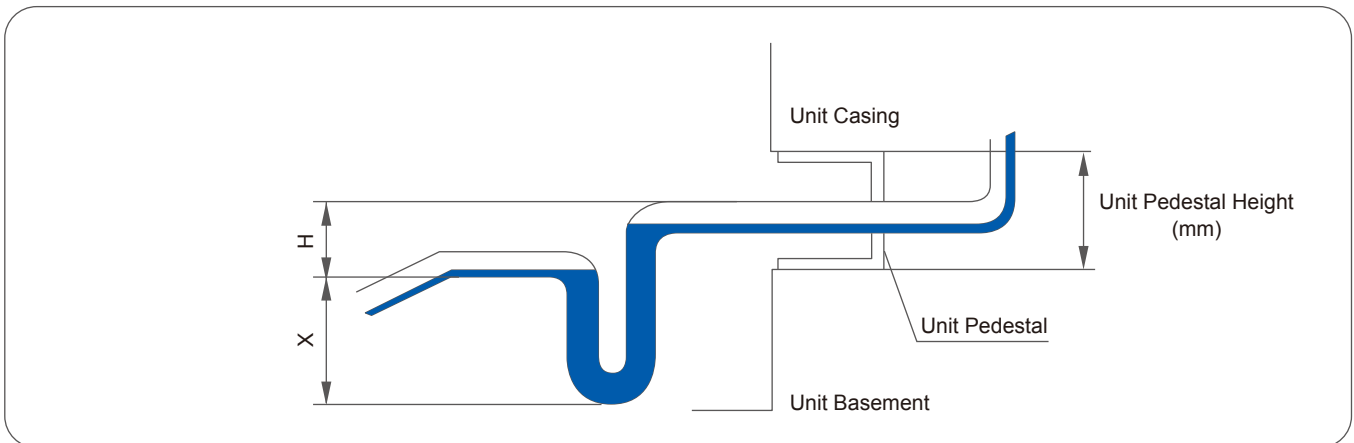
Electric Heater Selection

| No. | Unit Model | | Face Area | 1 Row Heater | 2 Row Heater | 3 Row Heater |
|-----|------------|----------------------------------|-------------------|------------------|------------------|------------------|
| | Unit Size | Max. Capacity of Single Pipe (W) | (m ²) | power range (kW) | power range (kW) | power range (kW) |
| 1 | 39XTEC0608 | 690 | 0.21 | <5 | 5~10 | 10~15 |
| 2 | 39XTEC0609 | 840 | 0.25 | <6 | 6~12 | 10~18 |
| 3 | 39XTEC0711 | 1140 | 0.34 | <8 | 8~16 | 16~24 |
| 4 | 39XTEC0811 | 1140 | 0.49 | <12 | 12~24 | 24~36 |
| 5 | 39XTEC0912 | 1290 | 0.65 | <14 | 14~28 | 28~42 |
| 6 | 39XTEC0913 | 1440 | 0.72 | <16 | 16~32 | 32~48 |
| 7 | 39XTEC0914 | 1590 | 0.80 | <18 | 18~36 | 36~54 |
| 8 | 39XTEC1015 | 1740 | 0.99 | <26 | 26~52 | 52~78 |
| 9 | 39XTEC1117 | 2040 | 1.29 | <30 | 30~60 | 60~90 |
| 10 | 39XTEC1317 | 2040 | 1.56 | <35 | 35~70 | 70~105 |
| 11 | 39XTEC1418 | 2200 | 1.83 | <40 | 40~80 | 80~120 |
| 12 | 39XTEC1420 | 2500 | 2.08 | <45 | 45~90 | 90~135 |
| 13 | 39XTEC1621 | 2650 | 2.55 | <48 | 48~96 | 96~144 |
| 14 | 39XTEC1822 | 2800 | 3.07 | <60 | 60~120 | 120~180 |
| 15 | 39XTEC1825 | 3250 | 3.56 | <70 | 70~140 | 140~210 |
| 16 | 39XTEC2025 | 3250 | 4.00 | <85 | 85~170 | 170~255 |
| 17 | 39XTEC2125 | 3250 | 4.21 | <90 | 90~180 | 180~270 |
| 18 | 39XTEC2226 | 3400 | 4.63 | <95 | 95~190 | 190~285 |
| 19 | 39XTEC2328 | 3700 | 5.29 | <105 | 105~210 | 210~315 |
| 20 | 39XTEC2333 | 4450 | 6.36 | <125 | 125~250 | 250~375 |
| 21 | 39XTEC2532 | 5380 | 6.33 | <145 | 145~290 | 290~435 |
| 22 | 39XTEC2832 | 5380 | 7.24 | <160 | 160~320 | 320~480 |
| 23 | 39XTEC3132 | 5380 | 8.15 | <175 | 175~350 | 350~525 |
| 24 | 39XTEC3438 | 6250 | 10.56 | <225 | 225~450 | 450~675 |
| 25 | 39XTEC3841 | 6820 | 12.66 | <285 | 285~570 | 570~855 |
| 26 | 39XTEC4444 | 7380 | 16.03 | <350 | 350~700 | 700~1050 |
| 27 | 39XTEC4750 | 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.

Ordering Information

1. Unit Direction: Along the airflow direction, left unit refers to units with water inlet and outlet of the coils and the access door on the left side , vice versa.
2. If units installed at outdoors or in corrosive environment, shall consult factory before ordering so as to ensure unit meet with application requirements.
3. Requirements of the unit basement: The length and width of the unit basement should be designed according to the unit, and the basement should be horizontally flat and higher than the ground for ease of installation of the condensate trap.



- Calculated Value: $H = \text{Negative pressure at the drain hole of the condensate plate Pa} / 10(\text{mm})$, $X > 1/2H$
 - Empirical Value: when negative pressure $< 1,000 \text{ Pa}$, $H = 100\text{mm}$, $X = 70\text{mm}$
4. Notice when connecting the coil: The designed working pressure of both cooling and heating coil is 1.6mPa.
 5. For fresh air units, when the temperature drops below 0 , preheating devices should be required to prevent frost cracking of the coils inside the units.
 6. The supply air temperature of the unit should not be higher than 80 (when heating), requests as such shall be brought forward when ordering, so that high temperature bearings and motors could be adopted.
 7. The unit outlet and duct should be connected with flexible connection.
 8. Residual water should be drained of the coil if the temperature falls below the freezing point when the unit is shut down. Put antifreeze in the coil in case there's still residual water.
 9. For electric heating,
 - 1) Electrical components and cable configuration shall be wires according to the power of electric heater.
 - 2) Wiring shall be carried out in line with the electric heater wiring diagram.
 - 3) The temperature relay signal of the electric heater shall be sent to the electric heating controller, to assure automatic power off when the temperature is too high in the unit.
 - 4) The controller of electric heater shall interlock control fan and electric heater, to keep the electric heater module powered off when the fan stops.
 10. PTC thermistor has been installed in fan motor, should connected with protective relay, to achieve motor overheating protection function. If customer need more information about how to choose protective relay, please contact THC for technical support.