



YTM Series Air Handling Unit



The power behind **your mission**



YORK®

Pursuit of Excellence Air Handling and Conditioning Expert

Professional Air Solutions

YORK® advances with time and forges the future by providing professional air treatment system solutions in various applications to meet the diverse needs of green, energy saving, environmental protection and intelligent buildings.

We listen and deeply understand customer needs, devote ourselves to technological development and innovation to create high-quality, high-performance equipment, and all-round services which are worthy of customers' trust worldwide.

Focus on IAQ Purification

YORK® has always been committed to sustainable development and to create a healthy and clean building environment. Nowadays along with the government and people pay more attention to environmental protection and the quality of life, indoor air quality IAQ is also being highly valued.

YORK® provides a variety of solutions for particulate matters, microorganisms, TVOC and other pollutants purification to meet the needs of different places and customers like shopping malls, office buildings, industrial, hospital etc.



YTM Series Air Handling Unit

YTM series air handling unit adopts the Micro-Module design which offers more compact casing structure and higher casing utilization. The YTM new patented casing has outstanding performance in mechanical strength, air leakage, thermal insulation and thermal bridge, etc., and has obtained international certifications.

The air volume of the YTM series ranges from 2,000 to 60,000m³/h. The panel thicknesses of 25mm and 50mm are available. The maximum external static pressure of the standard design reaches 1500Pa (the panel thickness is 50mm).

Product Nomenclature

YTM 25 M - 2534 - S - R



Remark: Unit Orientation

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

The left hand is shown in the figure.



Unit Hand: L-Left, R-Right

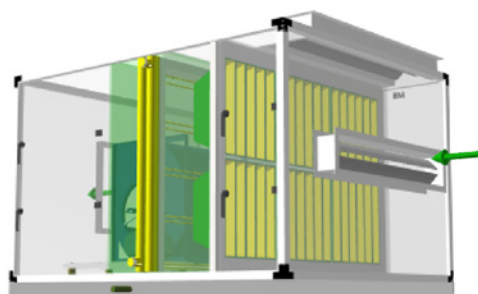
Unit Structure: S- Single

Dimension: Height Module & Width Module:
2534- H: 25M, W: 34M

Module Size: 50mm (per M)

Insulation Thickness: 25mm/50mm

YTM Series Air Handling Unit





Pursuit of Excellence

Excellent Performance

The unit adopts a new patented casing design with high energy efficiency, certified by AHRI1350 and EUROVENT. The casing performance is excellent, reaching the highest standard.



AHRI1350 Casing Certified Ratings		YTM	
		50mm	25mm
Casing Deflection Rating		CD1	CD3
Air Leakage Rating (+/-2500Pa)		CL1	CL1
Thermal Transmittance Rating	w/ Leakage	CT1	CT2
	w/o Leakage	CT1	CT2
Thermal Bridging Rating		CB1	CB2

EN1886 Mechanical Performance		YTM	
		50mm	25mm
Casing Strength		D1	D1
Air Leakage (-400/+700Pa)		L1	L1
Thermal Transmittance		T1	T2
Thermal Bridging Factor		TB1	TB2
Filter Bypass Leakage		F9	F9

Certified in accordance with the AHRI Central Station Air-handling Unit Casing Certification Program, which is based on AHRI 1350 Standards. Certified units may be found in the AHRI Directory at www.ahrirectory.org

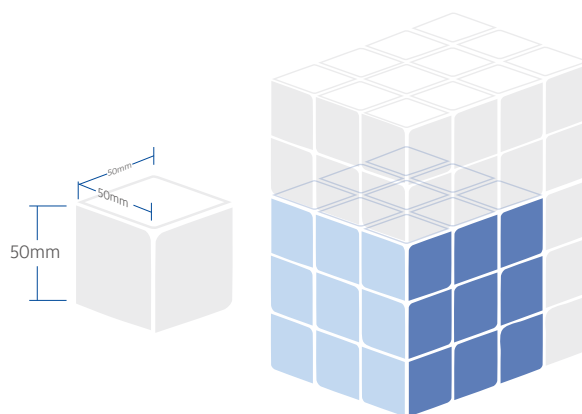
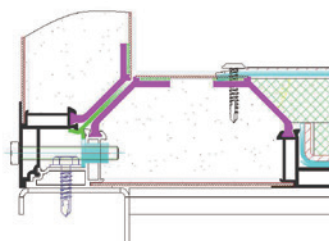


Patented Casing Design

The foam panel assembly adopts a new annular interlocking structure, fastened with bolts and embedded nuts to ensure casing tightness and strength. The casing mechanical strength complies with EN1886 D1 class.

Micro-Module Design

The unit adopts Micro-Module design of 50mm per module, which has a more compact structure and higher casing utilization rate. At the same time, the air flow range is more precise and better meets customer requirements.



Certified High Efficiency Heat Exchanger

Cooling and heating coils are made of mechanically expanded copper tubes with aluminium fins, providing reliable performance certified by AHRI 410.





High Efficiency & Energy Saving

Thermal Bridge Free Design

New aluminum alloy profile with internal PVC thermal bridge free design offers better thermal insulation performance and aesthetic casing appearance. The casing thermal bridging factor complies with EN1886 TB1 class.



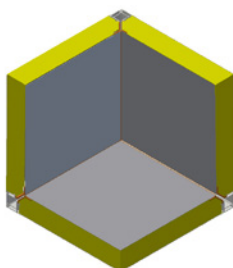
Low Air Leakage

The annular interlocking structure is tightly engaged and sealed with the PVC and NBR strips to eliminate air leakage. The frame of the foam-molded inspection door are insulated with PVC and sealed with liquid foam. The casing Air Leakage complies with EN1886 L1 class.



Better Thermal Insulation

Double skin construction is provided by “sandwich” type panels. The foam panel and profile skins are injected with Zero ODP & Zero GWP PU foam of $\geq 40\text{kg/m}^3$. The casing thermal transmittance factor complies with EN1886 T1 class.



Low Filter Bypass Leakage

Optimized filter arrangement with high performance unitary sealed structure filter frame greatly enhances the purification efficiency. The filter bypass leakage rate complies with EN1886 F9 class.



Green Solution

IAQ Solution

Electrostatic Precipitator

High voltage electrostatic precipitation technology effectively remove particles as small as $0.01\mu\text{m}$ and perform air sterilization simultaneously.



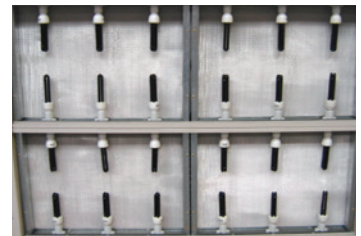
UV Lamp

It realizes the sterilization through the ultraviolet radiation released by the UV lamp. It is convenient to use.



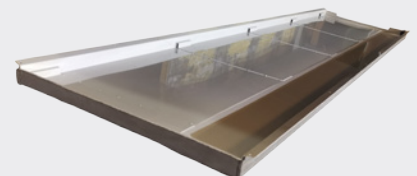
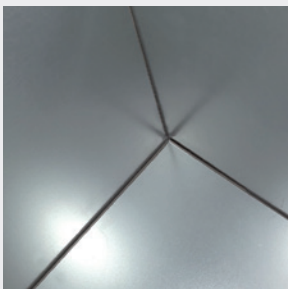
TiO₂ Sterilizer

It achieves the effects of sterilization, deodorization, and TVOC removal through photocatalytic oxidation.



Hygiene Application

- The seamlessly spliced panels have a flat and smooth surface, effectively prevent the accumulation of dust and water.
- Optional high quality direct-driven plug fan from well-known brands that avoid pollution caused by wear of the drive belt.
- Drain pan with stepped structure and longitudinal slope design allows quick and fully drainage of condensed water.

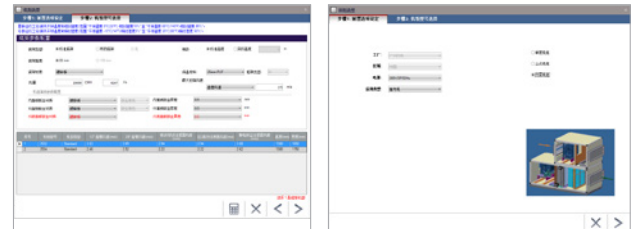


Selection Software Overview

YORK-AECWorks YTM Selection Software Features

Professional Customized Selection

- User-friendly selection software UI for easy selection.
- Flexible parametric design and system selection self-check function improve the AHU selection efficiency, accuracy and effectively shortens selection time.



Powerful Functions

- Multiple functional segments are available to meet different air treatment needs.
- Quick response to customer design requirements with configurable segments.
- Comprehensive project management system improves user working efficiency.



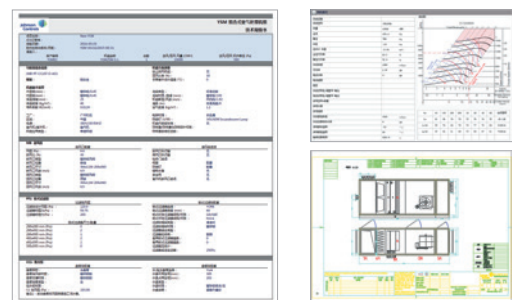
Professional Software for Coil Selection

- Providing diverse coil rows, circuit designs and fin options.
- The software is able to calculate the coil performance at different operating conditions and environments for optimum heat exchange efficiency.
- AHRI410 certified professional coil selection software.



Comprehensive Output Reports

- Automatic outputs comprehensive performance report and scaled assembly drawing.
- Psychrometric I-D chart is provided to indicate the air parameters in functional segments and visually reflect the changes of air parameters.

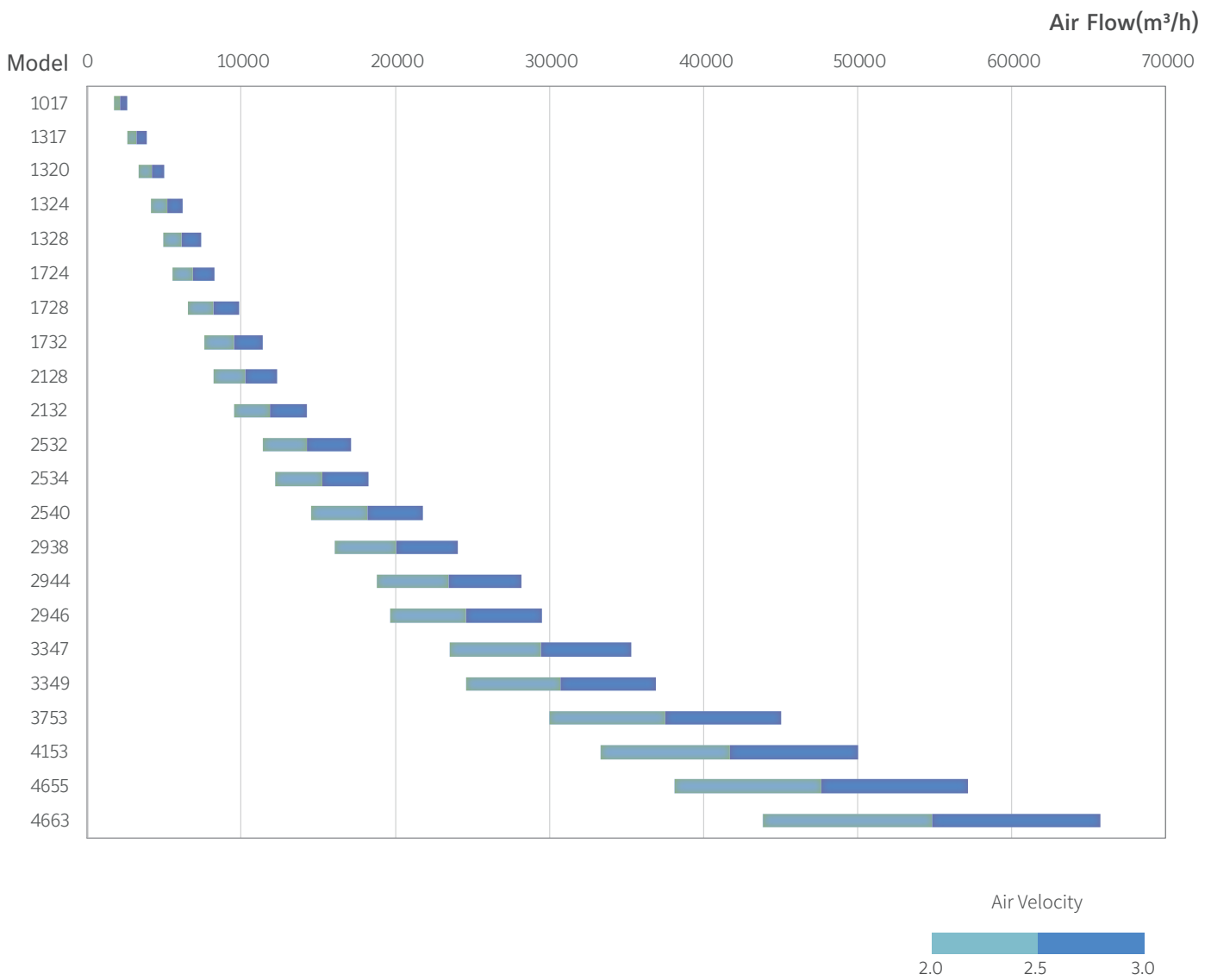


Classic Reference Case for quick selection

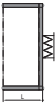
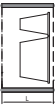
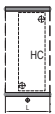
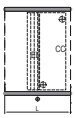
- Provides the best configuration scheme from different perspectives and considerations.
- Greatly reduces the time for users to repeat selection, and improves the efficiency and accuracy of selection.

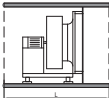
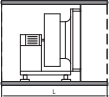
Reference Type	Priority	Unit	Unit
Reference Case	1	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	2	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	3	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	4	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	5	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	6	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	7	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	8	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	9	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	10	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	11	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	12	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	13	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	14	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	15	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	16	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	17	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	18	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	19	YTM Series Air Handling Unit	YTM Series Air Handling Unit
Reference Case	20	YTM Series Air Handling Unit	YTM Series Air Handling Unit

YTM Quick Selection



Segment Specifications

Segment Name	Notation	Sketch (← Airflow direction)	Length (Module) (for reference only)	Optional
Air Inlet Segment	AI		Damper located at front: L=12M. Damper located at top or side: L=Max (Dmp_L+1,12)=12M~47M. (Dmp_L is length module following air flow direction at side or top damper, determined by model and damper air flow rate)	Damper arrangement, Flange, Manual damper, Motorized damper without actuator, Motorized damper with On-Off or analog signal actuator, Access door, Marine light
Mixing Box Segment	MB		L=Max (Dmp_L+1,12)=12M~47M (Dmp_L is max length module following air flow direction at side or top damper, will be determined by model and damper air flow rate)	Damper arrangement, Fresh air ratio, Flange, Manual damper, Motorized damper without actuator, Motorized damper with On-Off or analog signal actuator, Access door, Marine light
Open Filter Segment	OF		No occupy a separate segment	G1/G3/G4/F5 Plate filter, Without filter media (only offer plate filter frame), Spare filter
Plate Filter Segment	PF		L=3M	G1/G3/G4/F5 Plate filter, Without filter (only offer plate filter frame), Spare filter, Pressure difference gauge
Bag Filter Segment	BF		L=8M 300mm Bag filter. L=9M Plate filter+300mm Bag filter. L=12M 500mm Bag filter. L=13M Plate filter+500mm Bag filter.	G3/G4 Plate filter; G3/G4/F5/F6/F7/F8 Bag filter, Bag filter length 300/500mm, Single bag filter, Plate and bag combination filter, Without filter (only offer bag filter frame), Spare filter, Pressure difference gauge
Heating Coil Segment	HC		L=5M~6M 1R, 2R. L=6M~7M 3R, 4.	1~4R Heating coil, Steel/copper header, Piping direction, 1~2R Copper tube with aluminum fin
Cooling Coil Segment	CC		L=9M~21M. 1. It is determined by coil row and combination mode. 2. Evaporative humidifier, droplet eliminator installed in coil segment, and does not occupy a separate segment.	1~12R Cooling coil+1~4R Heating coil, 1~12R Cooling coil+1~2R Steam coil, Dual cooling coil, Steel/copper header, Piping direction, Droplet eliminator, 50/100/150/200mm Evaporative humidifier (EV), Humidifier brand
Humidifier Segment	HM		L=10M Electrode humidifier (EL). L=10M Dry steam humidifier (SH). L=13M High pressure spray humidifier (SP). L=10M Electric heat humidifier (EH).	Manual/electric switch for dry steam humidify, Humidifier brand

Segment Name	Notation	Sketch (← Airflow direction)	Length (Module) (for reference only)	Optional
Supply Fan – DIDW Fan Segment	SF_D		L=12M~68M Determined by model, fan and motor specification.	Fan brand, Motor brand, Motor location, Fan discharge, Access door, Marine light, View port
Return Fan – DIDW Fan Segment	RF_D		L=12M~68M Determined by model, fan and motor specification.	Fan brand, Motor brand, Motor location, Fan discharge, Access door, Marine light, View port
Supply Fan – Plug Fan Segment	SF_P		L=15M~53M (Exclude air inlet distance) Determined by model, fan and motor specification.	Fan brand, Motor brand, Motor location, Fan discharge, Access door, Marine light, Viewport
Return Fan – Plug Fan Segment	RF_P		L=15M~53M (Exclude air inlet distance) Determined by model, fan and motor specification.	Fan brand, Motor brand, Motor location, Fan discharge, Access door, Marine light, Viewport
Empty Segment	ES		L=4M~22M Select it according to the requirement.	Access door, Marine light, Flange, Damper, Auxiliary drain pan
Diffuser Segment	DF		L=12M Determined by model.	Access door, Marine light
Air Outlet Segment	AO		Damper located at front: L=12M. Damper located on top or side: L=Max (Dmp_L+1,12)=12M~47M (Dmp_L is length module following air flow direction, will be determined by model and damper air flow rate)	Damper arrangement, Flange, Manual damper, Motorized damper without actuator, Motorized damper with On-Off or analog signal actuator, Access door, Marine light
TiO ₂ Sterilizer Segment	TA		L=4M	
UV Segment	UV		L=3M	
Electrostatic Precipitation Segment	EP		L=5M	

Segments Specifications

Unit Length Calculation

Overall Length

For 25mm unit: Overall length = Unit overall length module L No. x 50mm + split shipped No. x 50mm

For 50mm unit: Overall length = Unit overall length module L No. x 50mm + split shipped No. x 100mm

Delivery section length

For 25mm unit: The delivery length of each split = L No. in each split x 50mm + 50mm

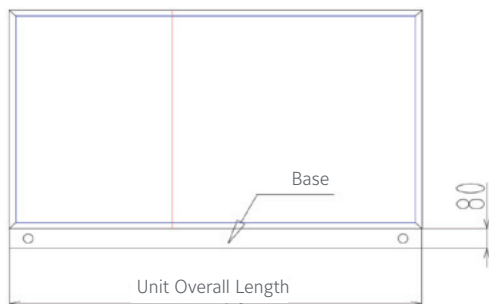
For 50mm unit: The delivery length of each split = L No. in each split x 50mm + 100mm

Notes:

Width module $W \leq 38M$, maximum split length module $L=68M$;

Width module $W \geq 38M$, maximum split length module $L=39M$;

The length is only for your reference. Please contact Johnson Controls' local office for detailed dimension.



For example:

One YTM-50M-2128 with total 53M length is delivered in 2 sections: one section is 23M length, another is 30M length.

The overall length is $53 \times 50 + 2 \times 100 = 2850mm$.

Delivery length of each section is

$23 \times 50 + 100 = 1250mm$; $30 \times 50 + 100 = 1600mm$.

Split Principle

- Split at upstream: RF_D/SF_D/ES/DF/AO.
- Split at downstream: AI/MB/BF/ES/DF/RF_P/SF_P.
- Any segment connected with OF can't be divided.

Segment Arrangement Principle

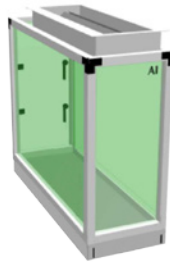
- AI/MB/OF should be located in the most upstream only.
- AO should be located in the most downstream only.
- Diffuser segment can only be located next to downstream of RF_D or SF_D.
- SP of HM can't be chosen if HM is not next to downstream of CC.
- To facilitate maintenance, at least 12M maintenance space is needed next to upstream or downstream of PF/BF/HF/TA/EP.
- There are spare upstream maintenance space in AI/MB/DF/ES/RF_P/SF_P; And spare downstream maintenance space in RF_D/SF_D/ES/AO.
- The length of ES with access door can't be less than 12M.
- At least G3 or above filter segment is needed before TiO2 sterilizer segment.

Segments Specifications & Illustration

Air Inlet / Mixing Box / Air Outlet

Air Inlet Segment

It is linked with return air duct or fresh air duct, and supply return air into air handling unit.



Mixing Box

It can adjust the proportion of return air and outdoor air to satisfy the need of air conditioning environment.



Air Outlet Segment

it is linked with supply air duct, and supply air to air conditioning systems.

Damper

- Damper Location: Air inlet, Air outlet, Mixing box segment: Front/Top/Side.
- Damper material options: Galvanized steel, aluminum alloy and stainless steel.
- Providing flange, manual damper, motorized damper without actuator or with actuator.



Filter

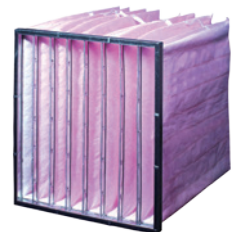
Plate Filter

Polyester synthetic fiber filter media, filtration efficiency G3/G4. G1 filter use Al mesh.



Bag Filter

Polyester synthetic fiber, bag length 300mm/500mm, filtration efficiency G3/G4/F5~F8.



Service Instructions

- Remove the open filter from side.
- Replace the plate and bag filters from the dirty side (upstream side) .

Accessories

- Pressure difference gauge: Provide the visual reading of differential pressure through the filter, avoiding the filter efficiency reduction due to dust over-accumulation.
- Pressure difference transmitter: Translate the differential pressure through the filter into signals to the control system to monitor pressure variation.

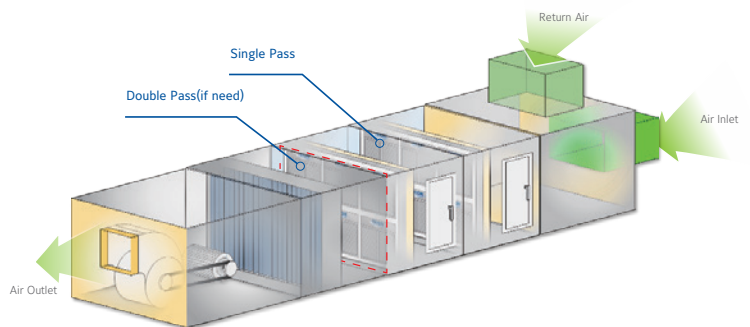




Electrostatic Precipitator

Johnson Controls electrostatic precipitation filter is used to remove fibers and large-particle dust and then the built-in high-pressure dust collector, through positive and negative corona, to filter fine dust particles and kill bacteria and germs attached to the dust particles.

The Johnson Control electrostatic air filter can be cleaned repeatedly, without consumables, and low cost.



TiO₂ Sterilizer

The Nano-scale TiO₂ air sterilization and purification technology can oxidize and decompose harmful substances and effectively kill bacteria and germs in air. It ensures efficient removal of odors, microorganisms and other harmful substances.



UV Lamp

It uses high-grade and durable UV lamp to kill bacteria and germs retained by or attached on specific functional segments like filter segment and cooling coil segment etc.

The interlocked travel limit switch of access door is used to disable the lamp to avoid injury when entering the section for service.



Segments Specifications & Illustration

Filter Quantity

Model	12"x12" (290x290)	12"x20" (290x493)	12"x24" (290x595)	20"x12" (493x290)	20"x20" (493x493)	20"x24" (493x595)	24"x12" (595x290)	24"x20" (595x493)	24"x24" (595x595)
1017	1	1	0	0	0	0	0	0	0
1317	0	0	0	0	0	0	1	1	0
1320	0	0	0	0	0	0	1	1	0
1324	0	0	0	0	0	0	0	2	0
1328	0	0	0	0	0	0	1	2	0
1724	0	0	0	0	0	0	0	1	1
1728	0	0	0	0	0	0	1	2	0
1732	0	0	0	0	0	0	1	0	2
2128	0	0	0	0	2	2	0	0	0
2132	0	0	0	0	0	4	0	0	0
2532	0	0	0	0	0	0	0	0	4
2534	0	0	0	0	0	0	0	4	2
2540	0	0	0	0	0	0	0	4	2
2938	0	0	0	0	0	0	0	2	4
2944	0	0	0	0	0	0	2	2	4
2946	0	0	0	0	0	0	2	0	6
3347	0	0	0	0	2	6	0	1	3
3349	0	0	0	0	0	8	0	0	4
3753	0	0	0	0	0	0	0	6	6
4153	0	0	0	0	0	0	0	0	12
4655	0	0	0	0	2	6	0	2	6

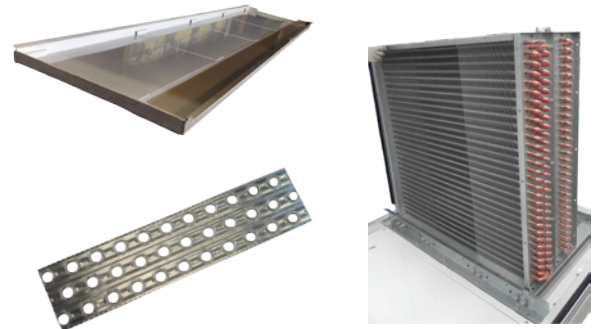
Comparison of Efficiency in China, USA, EU

China GB/T14295	Premium efficiency≥5 μ m 80%>Efficiency≥20%					Medium efficien- cy≥1 μ m 70%>Efficiency≥20%				High-medium efficiency≥1 μ m 99%>Efficien- cy≥70%				Sub-HEPA efficien- cy≥0.5 μ m 99.9%>Effccien- cy≥95%				HEPA efficiency≥0.5 μ m Efficiency≥99.9%			
U.S. ASHRAE	C1	C2-C4	L5	L6	L7	L8	M9	M10	M11	M12	M13	M14	H12~H16				VH17	VH18	VH19	VH20	
Europe New specification	G1 65%	G2 80%	G3 80%~90%		G4 >90%		F5 40%		F6 60%		F7 90%	F8 90%	F9 85%	H10 95%	H11 99%	H12 99.90%	H13 99.95%		H14 99.995%		V15V17 99.9995%
Europe Old specification	EU1	EU2	EU3		EU4		EU5		EU6		EU7	EU8	EU9	EU10		EU11		EU12	EU13	EU14	

Segments Specifications & Illustration

Cooling Coil, Heating Coil

- Cooling and heating coils are made of mechanically expanded copper tubes with aluminium fins, providing reliable performance, certified by AHRI 410.
- All coils are pre-tested for leakage according to the GB standard before delivery.
- The coil has a framework made of galvanized steel (stainless steel is optional).
- The drain pan is made of powder coated galvanized steel or optional stainless steel.
- The drain pan is longitudinal stepped structure which allows quick and easy drainage of condensed water.
- An eliminator can be installed if required by customer to prevent condensed water from being blown out of coil. (As specified by the manufacturer, eliminator can be installed for coil face velocity in the range 2.5~3m/s).
- Hydrophilic aluminium fin is optional.
- Water inlet/outlet flange connection is optional.



Height of Water Coil

Height Module (M)	1/2" Coil		3/8"Coil
	Coil Height	Combination	
10	12	12	16
13	18	18	22
17	24	24	30
21	30	30	38
25	36	36	44
29	42	42	-
33	48	48	-
37	54	24+30	-
41	60	30+30	-
46	66	30+36	-

Notes:

1. Coil header connector is male thread. Below is corresponding metric and imperial unit diameter (The imperial diameter is nominal dimension).

Metric/mm	34mm	48mm	60mm	76mm	89mm
Imperial/inch	1"	1-1/2"	2"	2-1/2"	3"

2. Condensate connector is 48mm OD male thread pipe connector.

3. For model size of 3737 (including 3737) or above, the coils have two water-in and two water-out connection.

4. TPC: Tube quantity of each circuit, the formula as follows: $TPC = \frac{\text{Tube High} \times \text{Rows}}{\text{Circuits}}$

Steam Heating Coil

- Steel tube & aluminium fins coil.
- Max design working pressure of steam coil: 0.4MPa.



Water Coil Connection Sizes (mm)

Rows	TPC	Coil Height						
		12	18	24	30	36	42	48
1Row	2	48	48	60	60	60	60	60
	4	34	48	48	48	60	60	60
2Row	2	60	60	76	76	89	89	89
	4	48	48	60	60	60	60	60
	6	48	48	48	48	60	60	60
	8	34	48	48	48	60	60	60
3Row	2	60	76	89	89	89	89	89
	4	48	60	76	76	76	76	76
	6	48	48	60	60	76	76	76
4Row	2	76	76	89	89	89	89	89
	4	60	60	76	76	89	89	89
	6	48	60	60	60	76	76	76
	8	48	48	60	60	76	76	76
5Row	4	60	76	76	76	89	89	89
	6	48	60	76	76	76	76	76
	8	48	60	60	60	76	76	76
	10	48	48	60	60	76	76	76
6Row	4	60	76	89	89	89	89	89
	6	60	60	76	76	89	89	89
	8	48	60	76	76	76	76	76
	12	48	48	60	60	76	76	76
8Row	4	76	76	89	89	89	89	89
	6	60	76	76	76	89	89	89
	8	60	60	76	76	89	89	89
	12	48	60	60	60	76	76	76
	16	48	48	60	60	76	76	—
10Row	6	—	76	89	89	89	89	89
	8	—	76	76	76	89	89	89
	10	—	60	76	76	89	89	89
	12	—	60	76	76	76	76	76
12Row	16	—	60	60	60	76	76	—
	6	—	76	89	89	89	89	89
	8	—	76	89	89	89	89	89
	12	—	60	76	76	89	89	89
	16	—	60	76	76	76	76	—

Humidifier

Evaporative Humidifier

- The humidifier humidifies air through natural water evaporation.
- The evaporative humidifier eliminates “white powder” during humidifying.
- Humidification efficiency: Up to 80%.
- Safe, Reliable and Durable.
- Direct evaporative cooling with smaller size and lower temperature.



Steam Humidifier

- The humidifier separates any water from the steam, and then injects the steam through orifice with metal muffling & filtering net.
- It uses the unique heat-insulating sleeve to supply the steam, making the system free from the heat interference by out-of-service nozzle jet.
- The single-outlet, dual-outlet or tri-outlet dry steam humidifier can be selected according to the steam quantity and height module for clean isenthalpic humidification.
- Regulating Signal: ON-OFF、0-10V/4-20mA.
- Regulation Mode: Switch type, proportion type.
- Diverse regulating valves: Manual valve, solenoid valve, motorized valve.



Electrode Humidifier

- Main of the humidifier converts electric energy to heat with electrode and heats water to steam, which is delivered to AHU through pipe.
- Key component of the humidifier is integrated to electric control box and controlled by microcomputer, easy for installation and use.
- Stainless steel or aluminium alloy steam distribution pipe.
- Regulating Signal: ON-OFF、0-10V/4-20mA.
- Regulation Mode: Switch type, proportion type.



Electric Heat Humidifier

- Humidifier converts electric energy to heat with electric heating tube and heats water to steam, which is delivered to AHU through pipe.
- Humidifier is integrated to electric control box and controlled by microcomputer, easy for installation and use.
- Stainless steel or aluminium alloy steam distribution pipe.
- Regulating Signal: ON-OFF、0-10V/4-20mA.
- Regulation Mode: Switch type, proportion type.

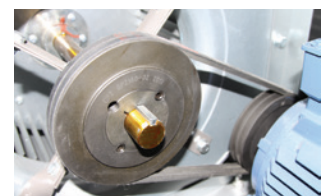


Segments Specifications & Illustration

Fan

DIDW Centrifugal Fan

- Double-inlet forward-curved/backward-curved centrifugal fan or plug fan from well known brand is adopted, safer and more reliable.
- Both impeller and frame are made of high-strength alloy steel plate with robust design.
Impeller has been statically and dynamically balanced.
- The optional VSD converter can regulate the running speed of fan, reducing energy consumption of system.
- High-quality damper spring is used for damping, which effectively lowers vibration and noise produced by fan.
- Base of motor is equipped with sliding rail adjustment device to facilitate adjustment of motor and belt by user.
- On outlet of fan there is flexible connection of canvas, which prevents transfer of vibration and compliance to BS476.
- Belt is product from well known brand, with high driving power and good wear resistance.
- European-style taper sleeve belt pulley which is reliable and easy to disassemble is used.
Impeller has been statically and dynamically balanced.
- Each bearing is product from known brand, with high assembly accuracy.

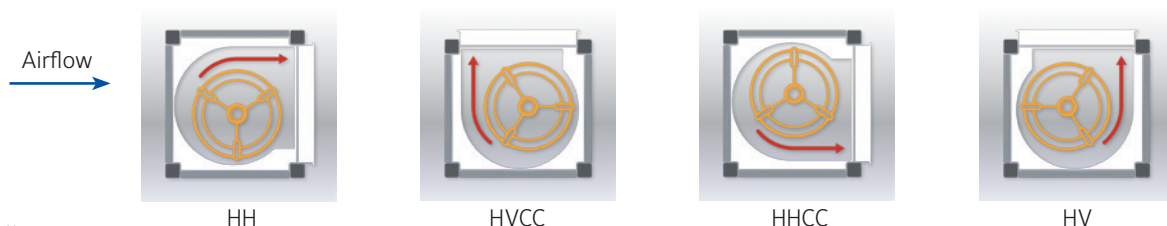


Plug Centrifugal Fan

- For plug fan application, it provides flexibility of supply discharge duct arrangement. This makes installation easier.
- Plug fan with open structure, easier for cleaning and maintenance.
- High efficiency, low noise.
- Direct-driven plug fan is directly driven with motor. This avoids secondary pollution from debris of belt produced during belt driving. Such fan is widely used in clean-room industries. e.g. electronics, pharmacy etc.
- High-quality motor with high energy efficiency from famous brand is used. Motor is IP55 protection class and Class F insulation. It can run reliably and efficiently.
- Constant-speed motors and VSD motors are available.



Fan Arrangement



Note:

For DIDW fan, the air inlet and outlet direction are shown as above with blue and red arrow.

For plug fan, air inlet is axial direction, and air outlet is radial direction, which allows fan outlet with Top, Bottom, Side and Back position.

Fan Weight

Fan Model	Forward Curved Fan		Backward Curved Fan	
	Weight (kg)	Frame Type	Weight (kg)	Frame Type
160	5.7	L	-	-
180	6.5	L	6	L
200	7.4	L	8	L
225	9.2	L	10	L
250	11	L	16	L
280	29	K	32	K
315	35	K	42.6	K
355	42	K	54.7	K
400	57	K	63.6	K

Fan Model	Forward Curved Fan		Backward Curved Fan	
	Weight (kg)	Frame Type	Weight (kg)	Frame Type
450	72	K	82.5	K
500	92	K	104.5	K
560	160	K	171	K
630	185	K	197	K
710	240	K	271	K
800	290	K	300	K
900	365	K	481.5	K
1000	480	K	530	K
1120	-	-	687	-

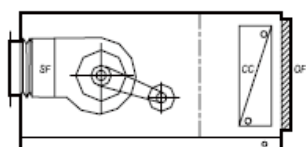
Motor Weight

Motor Power (kW)	50HZ 380V 4P Motor Weight (kg)
0.55	15
0.75	18.5
1.1	23
1.5	27
2.2	26
3	40
4	50
5.5	76
7.5	81
11	130

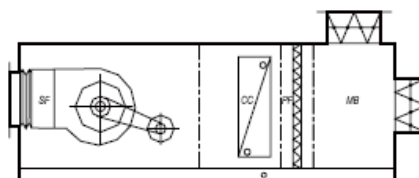
Motor Power (kW)	50HZ 380V 4P Motor Weight (kg)
15	146
18.5	180
22	200
30	275
37	300
45	320
55	410
75	600
90	640

Note: Take the weight of YORK (Qualified) motor as a reference, and take the fan weight of Yilida fan for reference.

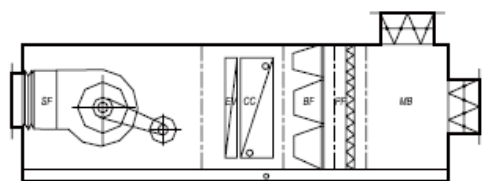
General Segment Arrangement



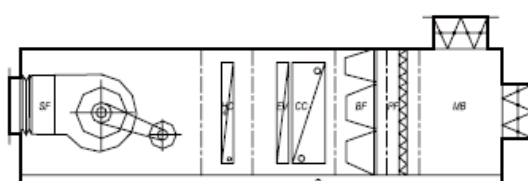
Model I: OF+CC+SF



Model II: MB+PF+CC+SF



Model III: MB+PF+BF+CC(+EV)+SF



Model IV: MB+PF+BF+CC(+EV)+HC+SF



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