



YSM Series Air Handling Units

Pursuit of Excellence, Air Purification and Conditioning Expertise

Established in 1874 in York, Pennsylvania, YORK® has helped our customers meet their temperature control needs for over a century. Now a Johnson Controls brand, YORK® continues to benefit customers through research that has gone on to claim several significant firsts in design and innovation. YORK® by Johnson Controls is able to provide our customers with the best indoor air quality and temperature control solutions available around the world today.

The YORK® by Johnson Controls upgraded YSM series air handling units offer a highly reliable, economical and energy-efficient product that is capable of addressing all of your needs.



EN1886 Mechanical Performance	YSM Series Class	
Panel Thickness	50mm	25mm
Thermal Bridging Factor	TB2	TB3
Thermal Transmittance	T2	T2
Air Leakage(-400/+700Pa)	L1	L1
Casing Strength	D1	D1
Filter Bypass Leakage	F9	F9

AHRI1350 Certified Ratings		YSM Panel Thickness	
		50mm	25mm
Casing Deflection Rating		CD4	CD4
Casing Air Leakage Rating(+/- 1000Pa)		CL3	CL2
Casing Thermal Transmittance Rating	w/ Leakage	CT2	CT3
	w/o Leakage	CT2	CT3
Casing Thermal Bridging Rating		CB2	CB2

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

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graph TD; A[Smart Selection Software] --> B[Pursuit of Excellence]; B --> C[Environmentally-responsible]; C --> D[Features & Benefits]; D --> E[Custom Made]; E --> A;
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Smart Selection Software

- User-friendly interface
- Organized project management system
- Professional report

Pursuit of Excellence

- Patented casing design
- Superior casing performance
- Certified quality

Environmentally-responsible

- Energy saving
- Indoor air quality
- Zero OPD&GWP panel

Features & Benefits

- Hygienic application designs
- Reliable operation
- Easy maintenance

Custom Made

- Up to 81 standard models
- Flexible configurations

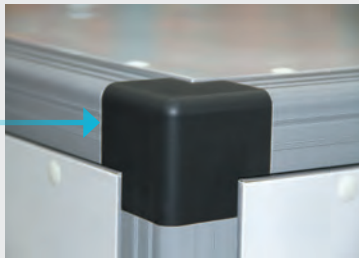
YSM Product Features

New Patented Casing Design

Aluminium & PVC profile joined reinforced plastic triaxial angle lug, forming the structural frame to house all internal components and able to comply with EN1886 class D1 mechanical strength (under the design condition, the deflection is less than 4mm/m)

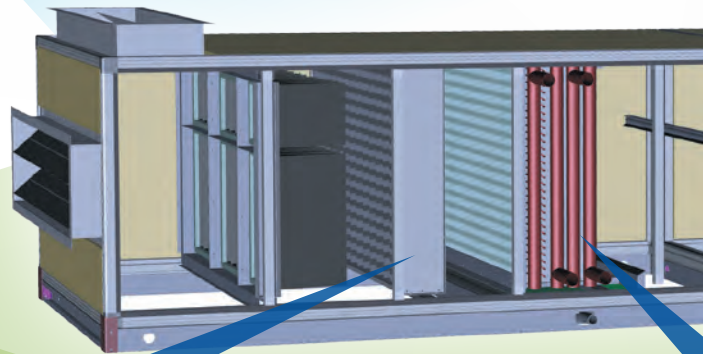


Triaxial Angle Lug



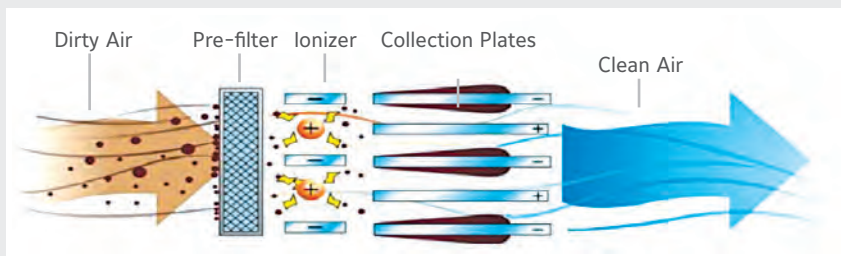
Thermal Bridge Free Design

Patented structure (The patent No: ZL201620519850.1) of thermal bridge free design is applied in YSM series. New Aluminium & PVC profile, reinforced plastic triaxial angle lug and specially designed door make heat insulation more efficient and appearance more aesthetic, and thermal bridge factor can meet EN1886 class TB2(for 50mm MB)/TB3(for 25mm MB).



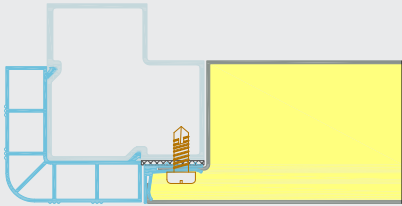
IAQ Solutions

Johnson Controls electrostatic precipitator option: An 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, filters fine dust particles and kills bacteria and germs attached to the dust particles.



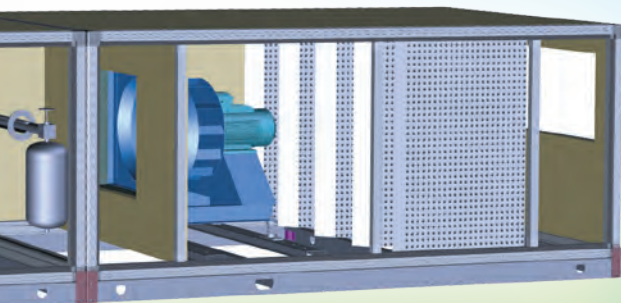
Low Air Leakage

Provided with Aluminium & PVC profile and PVC seals, to ensure air leakage rate is less than 1%, and able to comply with EN1886 class L1 and to be equivalent to GB/T 14294 clean air conditioning requirement.



Better Heat Insulation

Double skin construction is provided by "sandwich" type panels with high density strip. The foam panel and profile skins are injected with Zero ODP & Zero GWP PU foam of 40kg/m³, and the thermal transmittance factor meets EN1886 class T2.



High Efficiency Heat Exchanger

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

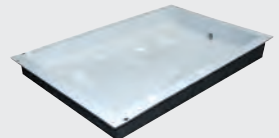


Hygiene

The flush-joint from the panel to frame has a smooth surface and curves at corners to prevent dirt and water retention.



Drain pan is dual V-shaped structure with longitudinal slope, which allows quick and easy drainage of condensate water.



The high quality direct-driven fan (plug fan) is optional, avoids pollution caused by wear of the drive belt.



Selection Software Overview

AECworks YSM Selection Software Features

Custom Made

- The user-friendly selection software UI makes for easy selection.
- The organized project management system quickly responds to customer's increasing design requirements.
- The flexible parametric design improves the design efficiency and effectively shortens design time.



Powerful Function

- Diverse configurations include simple and practical single-tier unit, slim unit and double-tier unit with smaller footprint area to meet various customer requirements.
- 81 preferred standard models are available to satisfy both conventional application and special applications with high requirement for dimension flexibility.
- Providing 26 segments available as an option.



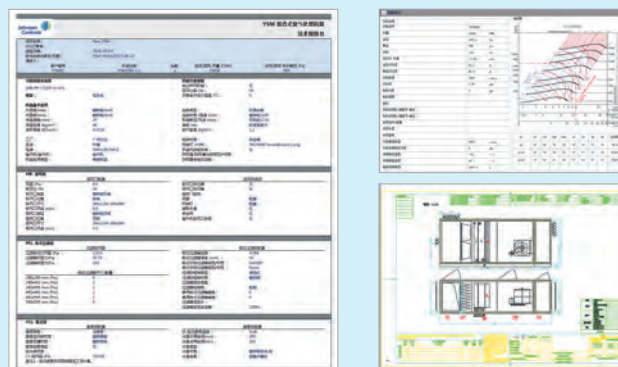
Professional Software for Coil Selection

- Providing diverse rows of coils, circuit designs and fin options, the software is available to calculate coil performance for different operating conditions and environments, and can optimize core components configuration and improve efficiency of heat exchange.



Comprehensive Output Reports

- Comprehensive performance report is provided.
- Scaled assembly drawing with automatic output is provided for professional's direct use
- Psychrometric I-D chart is provided to help to determine air state parameters in each functional segment and visually reflect the changes of air parameters.



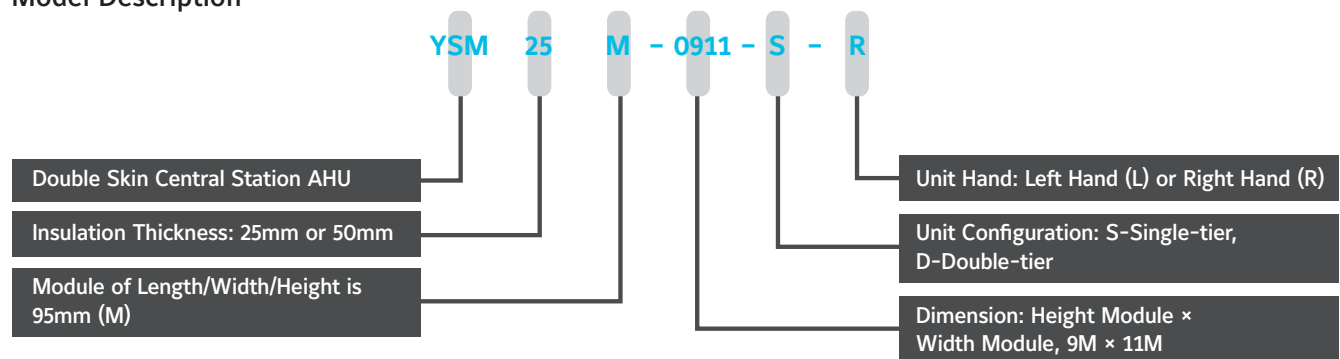
YSM Air Handling Units

The YSM series double skin air handling unit (AHU) consists of 81 models having air volumes ranging from 1,200 ~ 99,180m³/h and standard internal static pressures as high ± 1000 Pa (for 25/50mm thickness panel), to ensure maximum flexibility and the best solution for your application.

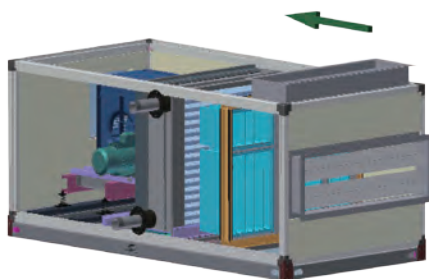
YSM air handling units are modular in design and can be manufactured in varied configurations, with a wide selection of components, to meet customer requirements. Units are suitable for shopping malls, hotels, office buildings etc. which in today's world demand improved indoor air quality requirements, and can also adapted to the hygiene and performance requirements of sectors and industries that depend on ultra-cleanliness, such as hospitals, pharmaceuticals, electronic factory etc.



Model Description



Unit Orientation

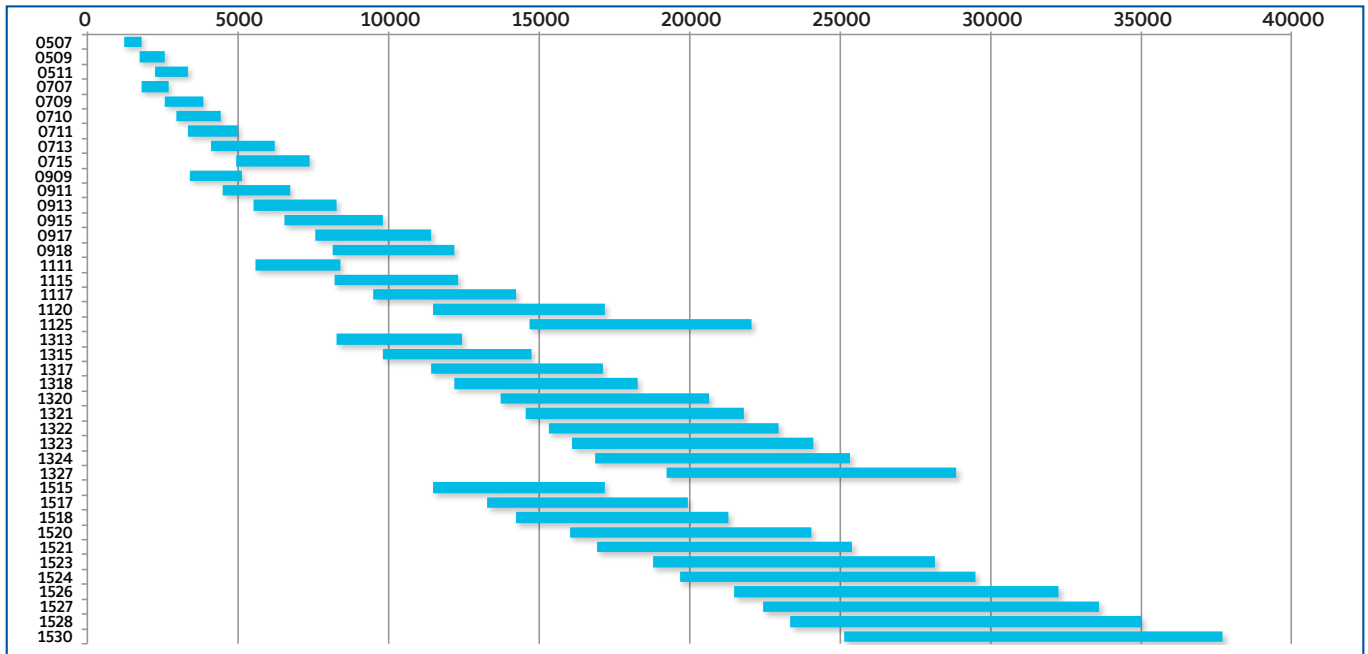
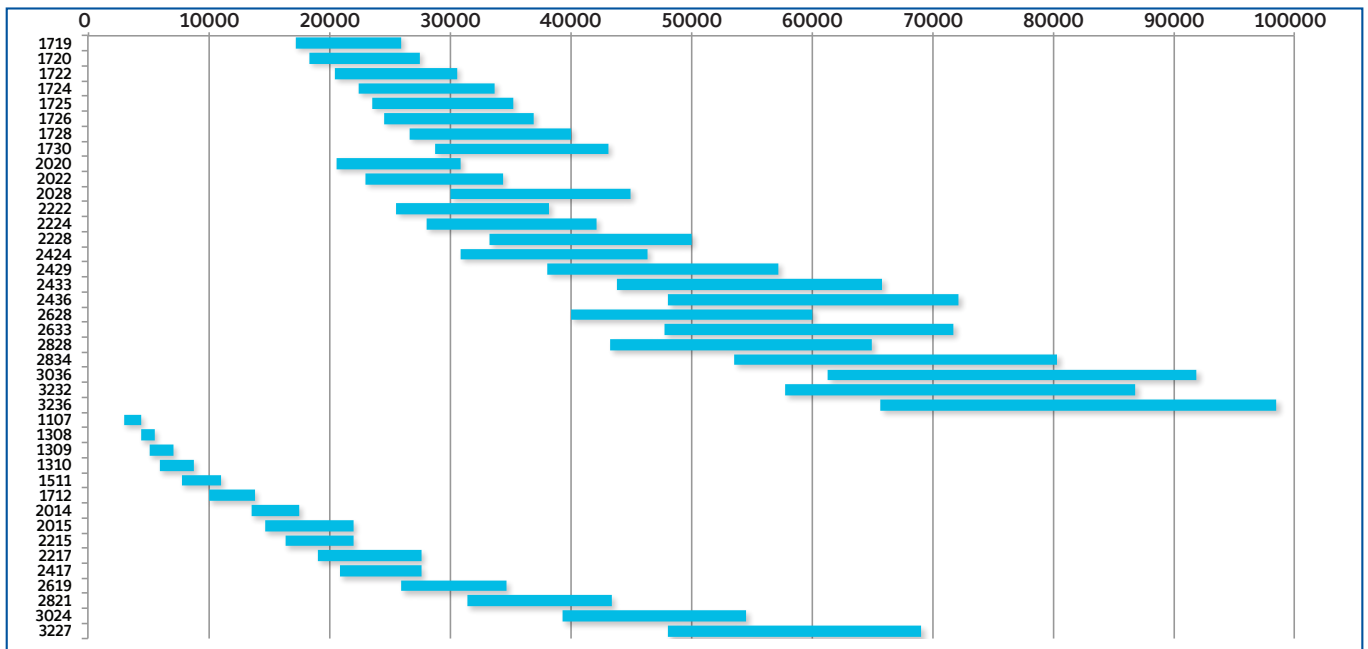


Unit orientation is determined by the location of the inlet and outlet pipes of the coil while facing unit in the direction of air flow.

The left hand is shown in the figure.

Quick Selection

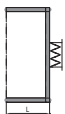
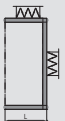
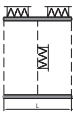
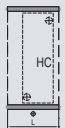
MODEL

Airflow: m³/h

Airflow: m³/h


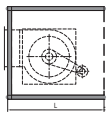
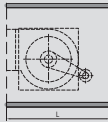
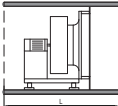
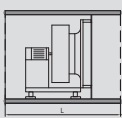
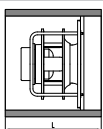
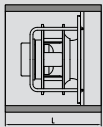
Note: Preferred standard models are listed.

Segment Specifications

SEGMENT SPECIFICATIONS

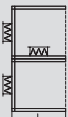
Segment Name	Notation	Sketch (← Airflow direction)	Length (Module) (for reference only)	Optional
Air Inlet Segment	AI		Damper located at front: L=5M Damper located at top or side: L=Dmp_L=5M~32M (Dmp_L is length module following air flow direction at side or top damper, determined by model and damper 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=Dmp_L=5M~32M (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
Economizer Segment	EE		L=EA_Dmp_L + OA_Dmp_L=10M~36M (EA_Dmp_L is length module of exhaust air damper following air flow direction, OA_Dmp_L is length module of outdoor air damper following air flow direction, and it is determined by model and damper air flow rate)	Damper arrangement, Exhaust 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, TiO ₂ Sterilizer, Without filter media (only offer plate filter frame), Spare filter
Plate Filter Segment	PF		L=2M	G1/G3/G4/F5 Plate filter, Dual plate combination filter, Without filter (only offer plate filter frame), Spare filter, Pressure difference gauge
Bag Filter Segment	BF		L=4M 300mm Bag filter L=5M Plate filter+300mm Bag filter L=6M 500mm Bag filter L=7M 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, Access door
HEAP Filter Segment	HF		L=4M	F9/H11/H13 High-efficiency filter, Without filter media (Filter frame only), Spare filter, Pressure difference gauge
Heating Coil Segment	HC		L=3M 1R, 2R L=4M 3R, 4R Note: L is 4M when TPC is 2 at 2R heating coil	1~4R Heating coil, Steel/copper header, Piping direction, 1~2R copper tube with aluminium fin, 1~2R steel tube with aluminium fin
Cooling Coil Segment	CC		L=5M~11M 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

SEGMENT SPECIFICATIONS

Segment Name	Notation	Sketch (← Airflow direction)	Length (Module) (for reference only)	Optional
Electric Heater Segment	EH		L=3M	Heater Power
Humidifier Segment	HM		L=6M Electrode humidifier (EL) L=6M Dry steam humidifier (SH) L=6M Electric heat humidifier L=7M High pressure spray humidifier (SP)	Manual/electric switch for dry steam humidify, Humidifier Brand
Turn Segment	TN		2M~19M	Access door, Marine light, Viewport, Auxiliary Drain pan
Supply Fan – DIDW Fan Segment	SF_D		L=7M~34M Determined by model, fan and motor specification	Fan brand, Motor Band, Motor location, Fan discharge Access door, Marine light, View port
Return Fan – DIDW Fan Segment	RF_D		L=7M~34M Determined by model, fan and motor specification	Fan brand, Motor Band, Motor location, Fan discharge, Access door, Marine light, View port
Supply Fan – Plug Fan Segment	SF_P		L=9M~29M	Fan brand, Motor brand, Fan discharge, Access door, Marine light, Viewport
Return Fan – Plug Fan Segment	RF_P		L=9M~29M	Fan brand, Motor brand, Fan discharge, Access door, Marine light, Viewport
Supply Fan – EC Fan Segment	SF_E		L=9M~30M Determined by fan model, fan inlet part, access door, power supply box, control box	Fan brand, Fan inlet part, Power supply box, Control box, Access door, Marine light, View port
Return Fan – EC Fan Segment	RF_E		L=9M~30M Determined by fan model, fan inlet part, access door, power supply box, control box	Fan brand, Fan inlet part, Power supply box, Control box, Access door, Marine light, View port

Segment Specifications

SEGMENT SPECIFICATIONS

Segment Name	Notation	Sketch (← Airflow direction)	Length (Module) (for reference only)	Optional
Empty Segment	ES		L=2M-12M Select it according to the requirement	Access door, Marine light, Flange, Damper, Viewport, Auxiliary Drain pan
Sound Attenuator Segment	AT		L=5M, 7M, 9M, 11M, 13M, 15M Select it according to sound attenuator requirement.	
Diffuser Segment	DF		L=5M-7M Determined by model.	Access door, Marine light, Viewport
Air Outlet Segment	AO		Damper located at front: L=5M Damper located on top or side: L=Dmp_L=5M-32M (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, Viewport
TiO ₂ Sterilizer Segment	TA		L=3M	
UV Segment	UV		L=2M	
Electrostatic Precipitation Segment	EP		L=3M	AL mesh filter, G4 filter
Vertical Economizer Segment	VE		L=Dmp_L=5M-32M (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, Exhaust air ratio, Flange, Manual damper, Motorized damper without actuator, Motorized damper with On-Off or analog signal actuator, Access door, Marine light, Viewport

UNIT LENGTH CALCULATION

Overall length				
For 25mm unit:				
Overall length	=	Unit overall length module L No.	x 95mm	+ split shipped No. x 46mm
For 50mm unit:				
Overall length	=	Unit overall length module L No.	x 95mm	+ split shipped No. x 96mm

Delivery section length				
For 25mm unit:				
The delivery length of each split	=	L No. in each split	x 95mm	+ 46mm
For 50mm unit:				
The delivery length of each split	=	L No. in each split	x 95mm	+ 96mm

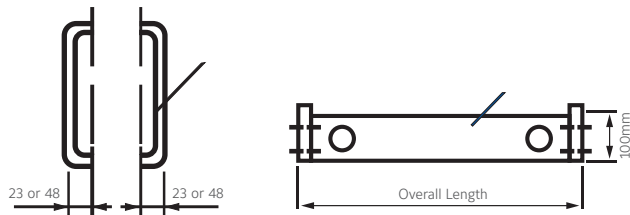
Notes:

Width module W not larger than 20M, maximum split length module L is 36M

Width module W not less than 20M, maximum split length module L is 21M

Height module H not less than 22M, unit is shipped by completely knock-down

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



Overall unit height (without VC) =				
Unit height module H No.	x	95mm	+	46mm (or 96mm) + 100mm
Overall unit height (with VC) =				
Unit height module H No.	x 2 x	95mm	+	46mm x 2 (or 96mm x 2) + 100mm

For example:

One YSM50 unit with length module 28M, is divided into 2 segments, one is 12M, another is 16M

Then overall length is $28 \times 95 + 2 \times 96 = 2852\text{mm}$

Delivery length of each segment is

$12 \times 95 + 96 = 1236\text{mm}$, $16 \times 95 + 96 = 1616\text{mm}$

SPLIT PRINCIPLE

- Split at upstream of EE/RF_D/SF_D/ES/DF/AO/VE/TN, split at downstream of AI/MB/EE/BF/ES/DF/RF_P/SF_P/VE/TN/SF_E/RF_E.
- EE/VE can be divided at upstream or downstream, and even can be divided in the middle.
- Any segment together with OF can't be divided.

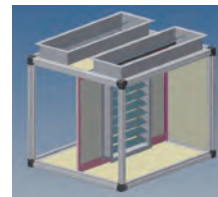
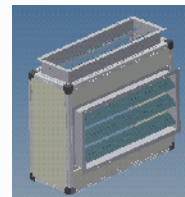
SEGMENT ARRANGEMENT PRINCIPLE

- AI/MB/OF should be located in most upstream only.
- AO should be located in most downstream only.
- Diffuser segment can be only 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.
- RF_D is necessity if EE/VE is chosen. Besides, EE must be at downward air flow side of RF_D. SF must be chosen if RF is chosen, and SF must be at downstream of RF.
- In order to facilitate maintenance, at least 5M 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/EE/ES/RF_D/SF_D/VE/TN; And spare downstream maintenance space in EE/RF_P/SF_P/ES/AO/VE/TN/SF_E/RF_E.
- The length of ES with access door can't be less than 5M.
- At least G3 or above filter segment is needed before TiO_2 sterilizer segment.

Segments Specifications & Illustration

AIR INLET / MIXING BOX / AIR OUTLET / ECONOMIZER SEGMENT

- 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.
- Economizer segment - it can adjust the proportion of outside air to take advantage of free cooling at low temperatures.



DAMPER

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



FILTER SEGMENT

- Plate filter: Uses polyester synthetic fiber filter media, filtration efficiency is G3/G4/F5. G1 filter uses Al mesh
- Bag filter: Polyester synthetic fiber, bag length of 300mm or 500mm, filtering efficiency: G3/G4/F5~F8
- HEPA filter: The V-shape pleated filter and box filter are available, using ultra fine glass fiber filter paper. Filter efficiency of V-shape pleated filter is F9~H13



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



- Service Instructions
 - Remove the open return filter from side.
 - Replace the plate and bag filters from the dirty side (upstream side) and clean side (downstream side).
 - Replace the high-efficiency filter from the dirty side (upstream side).

- 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.



- TiO₂ Sterilizer

The nano-level air sterilization and cleaning technology decomposes bacteria and virus to CO₂ and water, eliminates odor, hazardous microorganism and other hazardous substances.



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)
0507	0	0	1	0	0	0	0	0	0
0509	1	1	0	0	0	0	0	0	0
0511	1	0	1	0	0	0	0	0	0
0707	0	0	0	0	0	1	0	0	0
0709	0	0	0	1	1	0	0	0	0
0710	0	0	0	1	1	0	0	0	0
0711	0	0	0	1	0	1	0	0	0
0713	0	0	0	0	1	1	0	0	0
0715	0	0	0	1	2	0	0	0	0
0909	0	0	0	0	0	0	1	1	0
0911	0	0	0	0	0	0	1	0	1
0913	0	0	0	0	0	0	0	1	1
0915	0	0	0	0	0	0	1	2	0
0917	0	0	0	0	0	0	1	0	2
0918	0	0	0	0	0	0	0	2	1
1107	0	0	1	0	0	0	0	0	1
1111	1	0	1	0	0	0	1	0	1
1115	1	2	0	0	0	0	1	2	0
1117	1	0	2	0	0	0	1	0	2
1120	0	1	2	0	0	0	0	1	2
1125	0	2	2	0	0	0	0	2	2
1308	0	0	0	0	0	2	0	0	0
1309	0	0	0	2	2	0	0	0	0
1310	0	0	0	2	2	0	0	0	0
1313	0	0	0	0	2	2	0	0	0
1315	0	0	0	2	4	0	0	0	0
1317	0	0	0	2	0	4	0	0	0
1318	0	0	0	0	4	2	0	0	0
1320	0	0	0	0	2	4	0	0	0
1321	0	0	0	0	0	6	0	0	0
1322	0	0	0	2	4	2	0	0	0
1323	0	0	0	2	2	4	0	0	0
1324	0	0	0	2	0	6	0	0	0
1327	0	0	0	0	0	8	0	0	0
1511	0	0	0	0	0	0	2	0	2
1515	0	0	0	0	0	0	2	4	0
1517	0	0	0	0	0	0	2	0	4
1518	0	0	0	0	0	0	0	4	2
1520	0	0	0	0	0	0	0	2	4
1521	0	0	0	0	0	0	0	0	6
1523	0	0	0	0	0	0	2	2	4

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)
1524	0	0	0	0	0	0	2	0	6
1526	0	0	0	0	0	0	0	2	6
1527	0	0	0	0	0	0	0	0	8
1528	0	0	0	0	0	0	0	0	8
1530	0	0	0	0	0	0	2	0	8
1712	0	2	0	0	2	0	0	2	0
1719	1	0	2	1	0	2	1	0	2
1720	0	1	2	0	1	2	0	1	2
1722	1	2	1	1	2	1	1	2	1
1724	1	0	3	1	0	3	1	0	3
1725	0	2	2	0	2	2	0	2	2
1726	0	1	3	0	1	3	0	1	3
1728	0	0	4	0	0	4	0	0	4
1730	1	0	4	1	0	4	1	0	4
2014	0	0	0	0	0	2	0	0	4
2015	0	0	0	1	2	0	2	4	0
2020	0	0	0	0	1	2	0	2	4
2022	0	0	0	1	2	1	2	4	2
2028	0	0	0	0	0	4	0	0	8
2215	0	0	0	0	0	0	3	6	0
2217	0	0	0	0	0	0	3	0	6
2222	0	0	0	0	0	0	3	6	3
2224	0	0	0	0	0	0	3	0	9
2228	0	0	0	0	0	0	0	0	12
2417	1	0	2	0	0	0	3	0	6
2424	1	0	3	0	0	0	3	0	9
2429	0	0	4	0	0	0	0	0	12
2433	0	1	4	0	0	0	0	3	12
2436	1	1	4	0	0	0	3	3	12
2619	0	0	0	1	0	2	3	0	6
2628	0	0	0	0	0	4	0	0	12
2633	0	0	0	0	1	4	0	3	12
2821	0	0	0	0	0	0	0	0	12
2828	0	0	0	0	0	0	0	0	16
2834	0	0	0	0	0	0	0	0	20
3024	0	0	0	0	0	0	4	0	12
3036	0	0	0	0	0	0	4	4	16
3227	0	0	4	0	0	0	0	0	16
3232	1	0	4	0	0	0	4	0	16
3236	1	1	4	0	0	0	4	4	16

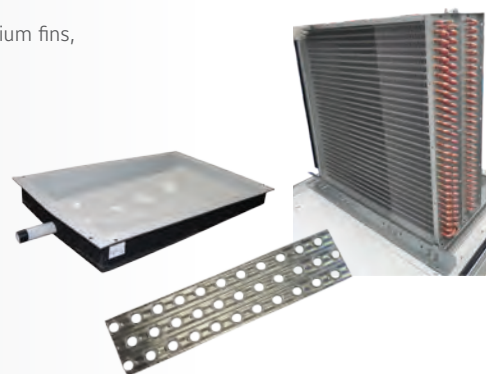
COMPARISON OF EFFICIENCY AND SPECIFICATIONS IN CHINA, USA AND EU

China GB/T14295	Premium efficiency ≥5µm 80%>Efficiency ≥20%					Medium efficiency ≥1µm 70%>Efficiency ≥20%					High-medium efficiency ≥1µm 99%>Efficiency ≥70%				Sub-HEPA efficiency ≥0.5µm 99.9%>Efficiency ≥95%				HEPA efficiency ≥0.5µm 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 AND HEATING COIL

- Cooling and heating coil 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.
- Drain pan is dual V-shaped structure with longitudinal slope, and 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.



Water coil tube height list

Modular Height(M)	1/2"Coil		3/8" Coil
	Coil Height	Combination	
5	12	12	16
7	18	18	22
9	24	24	30
11	30	30	38
13	36	36	44
15	42	42	-
17	48	48	-
20	54	24+30	-
22	60	30+30	-
24	66	30+36	-
26	72	36+36	-
28	78	36+42	-
30	84	42+42	-
32	90	42+48	-

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 2020 (including 2020) or above, the coils have two water-in and two water-out connection.

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

Water coil connection pipe sizes (mm)

Rows	TPC	Tube High						
		12	18	24	30	36	42	48
1 Row	2	48	48	60	60	60	60	60
	4	34	48	48	48	60	60	60
2 Rows	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
3 Rows	2	60	76	89	89	89	89	89
	4	48	60	76	76	76	76	76
	6	48	48	60	60	76	76	76
4 Rows	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
5 Rows	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
6 Rows	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
8 Rows	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	-
10 Rows	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
	16	-	60	60	60	76	76	-
12 Rows	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	-

STEAM COIL SEGMENT

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



ELECTRIC HEATER SEGMENT

- The electric heater employs stainless steel tube with helical fins and temperature protection switch, etc.
- The electric heater element is fixed on the frame. Electric control box is supplied and installed by the user. And its control must be interlocked with the fan.
- Features
 - 1-4 steps control, to satisfy various needs of heating power;
 - Overheating protection: Built-in temperature protection switch shall automatically shut off when the temperature is too high.



SOUND ATTENUATOR SEGMENT

- Sound attenuator uses galvanized steel as frame, non-hygroscopic and anticorrosive superfine fiber glass as inner lining acoustic absorbent, with perforated plate as protective cover of lining material. The allowable velocity is 20m/s. The sound attenuator unit is installed on a guide rail in the box.
- The standard sound attenuator segment is supplied in length of 5M/7M/9M/11M/13M/15M.



UV LAMP SEGMENT

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

HUMIDIFIER SEGMENT

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



High-pressure Atomizing Humidifier

- After pressurized with high-pressure pump, spray water is delivered to AHU and injected through nozzle therein.
- The humidifier consists of nozzle, internal pipeline, circulating water pump and control box, with circuits for alarm and protection built in.



FAN SEGMENT

DIDW Centrifugal Fan

- Double-inlet forward-curve/backward-curve 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's 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.
- Power supply: 380V/3P/50Hz, 380~415V/3/50Hz, 460V/3P/60Hz, 380V/3P/60Hz, /230V/3P/60Hz.

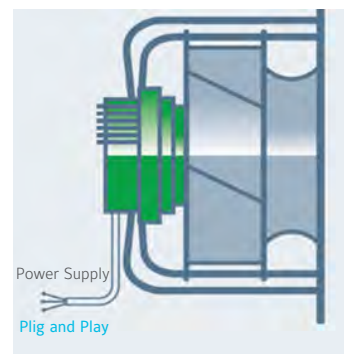


Segments Specifications & Illustration

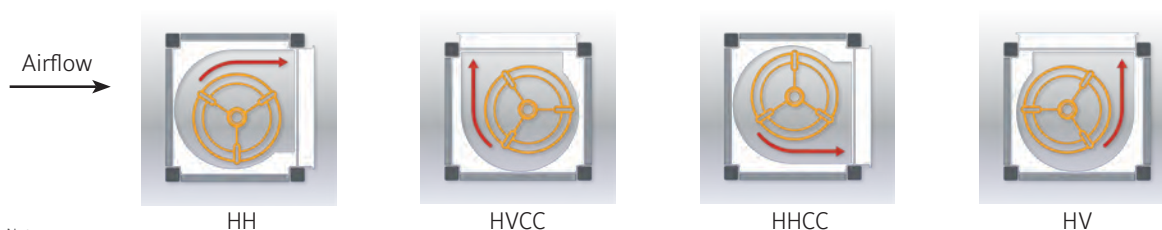
FAN SEGMENT

EC Fan

- EC fan shall be complete motorized impeller assembly with permanent magnet EC external rotor motor and integrated control electronics, which owns advantage of high efficiency, energy saving and low noise.
- Adopting internationally famous EC fan brands, optional for aluminum alloy / airfoil blade impeller, PP or PA material / backward blade impeller.
- Integrated frequency conversion drive module has complete electronic control system and motor protection function, with the characteristics of plug and play.
- The overall efficiency is better than fan system using three-phase AC motor, and the energy-saving advantage is more obvious under partial load due to speed control with 0-10V control signal.
- Fan wall technology and full range speed regulation function can avoid the malpractice that the whole AHU can not work after a single fan broke down.
- Fan wall system composed of EC fans with RS485 Modbus interface can be networked to realize terminal monitoring and control.
- Long service life of fan and maintenance-free with self-lubricating bearing.
- The fan & motor integrated structure technology makes the fan compact and saves the size of AHU.
- 400V/3P/50 (60Hz) rated power supply can operate normally in the range of 380-480V voltage.



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.

Segments Specifications & Illustration

FAN WEIGHT LIST

DIDW Fan

Fan Model	Fan with forward curved		Fan with backward curved	
	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
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	-

Plug Fan

Fan Models	Weight (Only fan wheel)
250	10
280	10
315	10
355	13
400	13
450	21
500	35
560	50
630	58
710	80
800	91
900	117
1000	150
1120	201
1250	258

MOTOR WEIGHT LIST

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

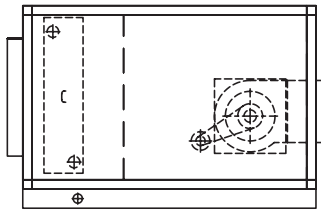
Motor Power (kW)	50HZ 380V 4P Motor Weight (kg)
15	146
18.5	180
22	200
30	275
37	300
45	320
55	410
75	600
90	640

Note:

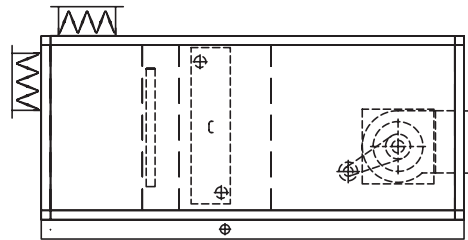
Take the weight of YORK (Qualified) motor as a reference, and take the fan weight of Yilida fan for reference

Segments Specifications & Illustration

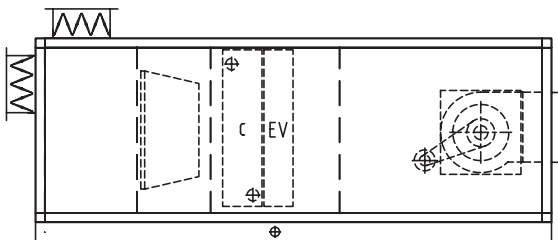
YSM GENERAL SEGMENT ARRANGEMENT



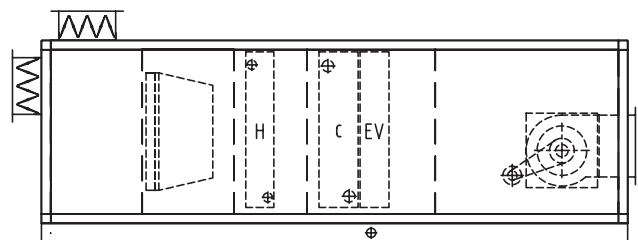
Model I: OF+CC+SF



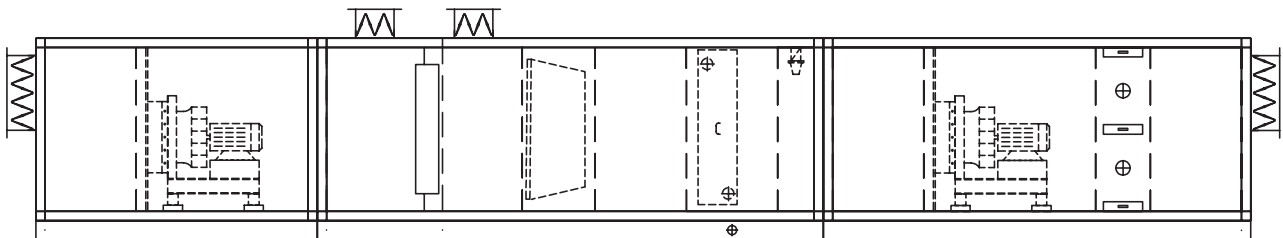
Model II: MB+PF+CC+SF



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



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



Model V: AI+RF(Plug fan)+EE+BF+ES+CC+UV+ES+SF(Plug fan)+EP+AO



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INSTALL CONFIDENCE

PUBL-8210 (0219)



YORK® YVAG Air-Cooled DC Inverter Reversible Heat Pumps



The power behind **your mission**

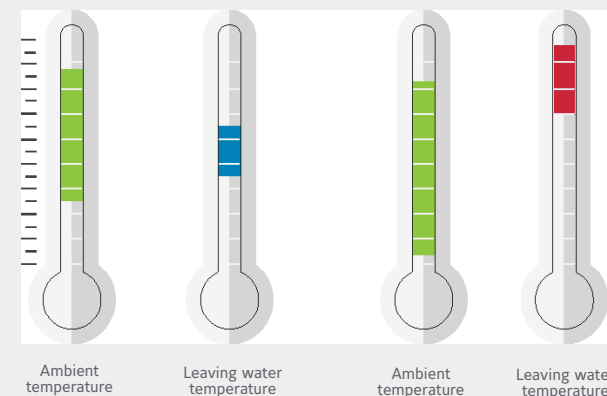




Cooling capacities from 11.2 kW to 40 kW Heating capacities from 12.6 kW to 42 kW



Note: YVAG012-033 can be combined



Please note:

1. YVAG012-018 cooling operation range from 5°C to 48°C, heating operation range from -20°C to 25°C.
2. YVAG020-040 cooling operation range from -5°C to 48°C, heating operation range from -27°C to 43°C.

High efficiency

Providing the lowest possible operating costs

Our new YORK® YVAG is designed for real-world efficiency. Part-load performances meet the highest efficiency values and deliver performance beyond typical heat pump efficiency levels in cooling and heating.

YORK® YVAG uses a high-efficiency DC inverter compressor together with advanced variable frequency drive technology. This ensures stable operation across the entire operating range. Compressor frequency range goes from 15-120 percent to quickly and efficiently meet the needs of residential load changes. YORK® YVAG units not only use a high-efficiency DC inverter compressor but also dual fans equipped with high-efficiency, low-noise DC inverter motor which adjusts the air flow to exactly match the capacity in a more accurate and efficient way.

Easy installation and operation

Modular concept

The small packaged YORK® YVAG heat pump comes as standard with a hydronic loop circulating pump, expansion tank, water flow switch, safety valve, fill valve, and wye strainer, saving space in the room and making installations easy and fast. The pump's external head can provide up to 22m.

The units are designed for modular installations (up to four module combinations among all the models) to meet the needs of different residential and light commercial buildings. This permits installed capacities from 11.2-160kW.

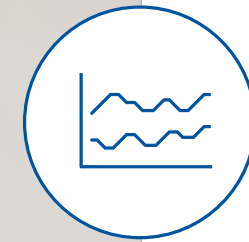
Perfect comfort in a wide operating range

Wide operating envelope with lower sound levels

With its wide operating range, the YORK® YVAG is perfect for all climates. It does not matter if the ambient temperature in summer is 48°C or if in winter is -27°C, as the unit will maintain the efficiency in stable operation, to provide users with the most comfortable air conditioning experience. With heating outlet water temperatures up to 58°C, the unit is perfect for radiant panels.

Optimized for low sound

Thanks to the YORK® YVAG component design, the unit's sound emissions are as low as 51 dB(A) Sound Pressure at full load, reducing to as low as 40 dB(A) at part-load operation. YORK® YVAG also has Silent Mode, which reduces the sound level emissions by 5 dB(A) below full-load levels.



Take SMART control of your spaces

Get SMART control of your environment with the YORK® YVAG system. Our fully customizable intelligent controls automatically adjust the temperature and humidity of your home, optimizing comfort, efficiency, and performance.

Sensitive

The highly sensitive T8610 intelligent thermostat closely monitors the actual and target temperatures of every room, instantly communicating requirements and load changes to the system and gathering data on usage requirements over time.

Manageable

Our YORK® YVAG system makes everything easy for you to manage. Fan coil cooling and heating as well as underfloor heating can be controlled directly through the thermostat, while a single switch allows instant activation of the air conditioning system. In addition, indoor and outdoor units can be controlled as one using our Building Automation System (BAS), giving you convenient management of your smart home.

Adaptable

The YORK® YVAG system adaptively adjusts the water temperature, compressor, and water pump running state in accordance with indoor and outdoor load changes. The results? More comfortable temperatures and humidity levels as well as annual operating costs that can be reduced by up to 18 percent.

Reliable

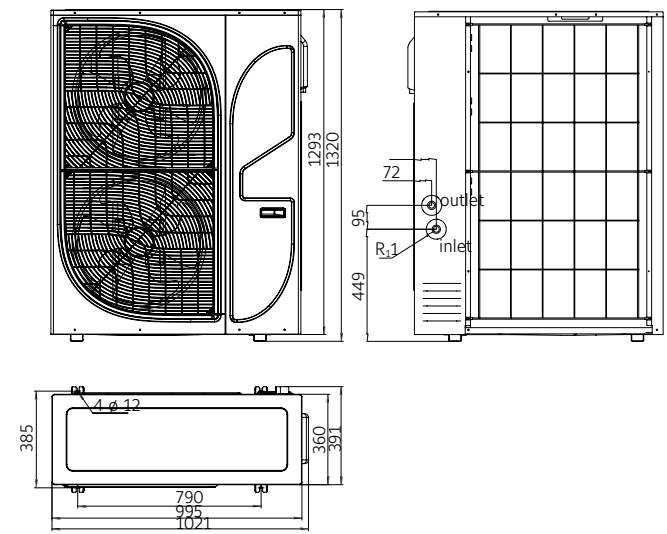
Enjoy peace of mind with our proven reliability. The YORK® YVAG system offers an automatic exhaust system as well as a debugging mode, which uses operational data to detect, diagnose, and manage faults. This minimizes downtime and increases the stability of your system's operation.

Transformative

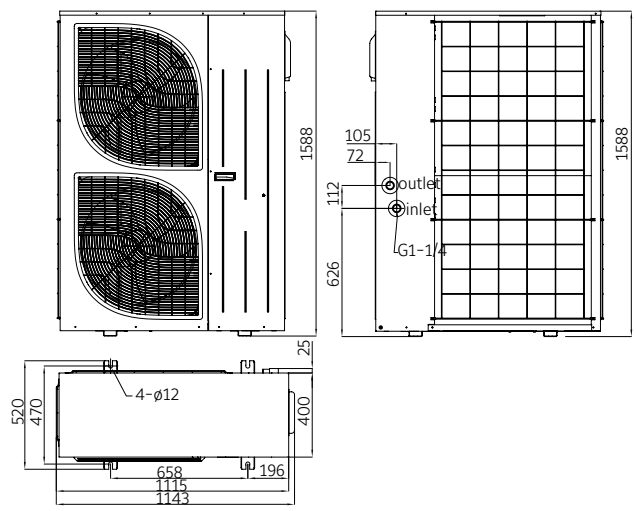
The design of the YORK® YVAG intelligent platform accommodates future enhancements. The system can be expanded with other components and features, including variable frequency water pumps and remote app control. This leaves the power to transform your environment firmly in your hands.

Dimensions

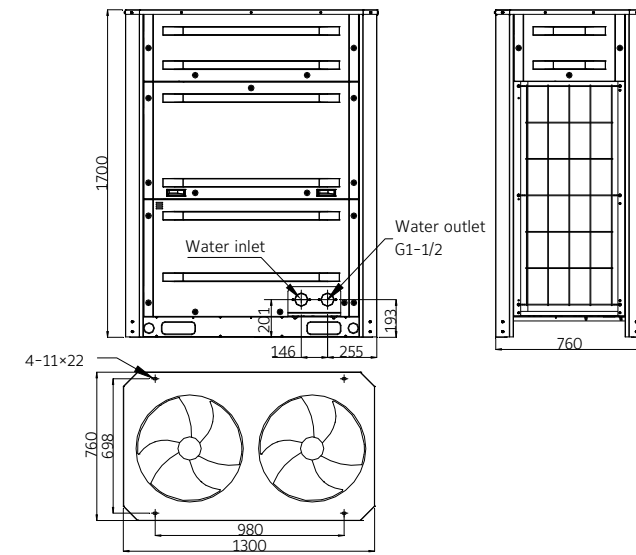
YVAG012-018



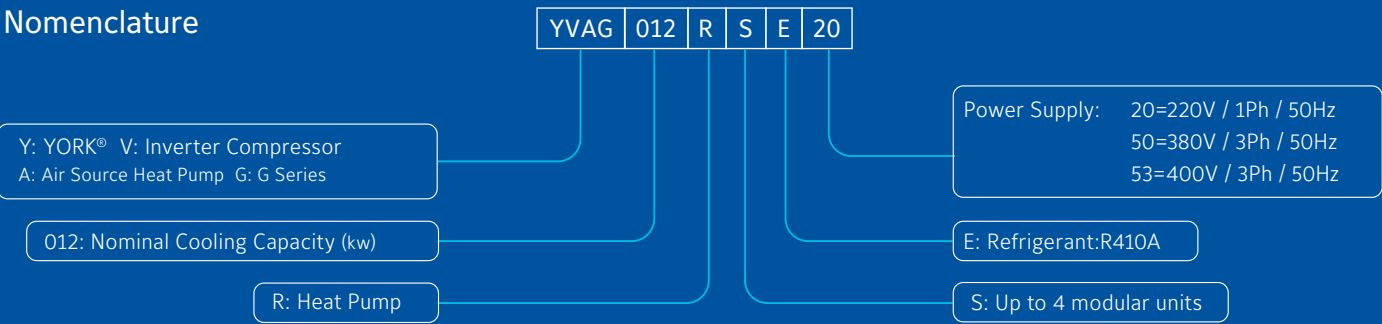
YVAG020-033



YVAG040



Nomenclature



Technical features

Model		YVAG 012RSE	YVAG 014RSE	YVAG 016RSE	YVAG 018RSE	YVAG 020RSE	YVAG 022RSE	YVAG 025RSE	YVAG 028RSE	YVAG 033RSE	YVAG 040RSE
Performance	Nominal Cooling Capacity	kW	11.2	14	15.5	18	20	22	25	28	40
	Cooling Power Input	kW	3.8	4.7	5.2	6.5	5.5	6.4	7.8	8.4	13.3
	EER		2.95	2.98	2.98	2.77	3.63	3.43	3.2	3.33	3
	Nominal Heating Capacity	kW	12.6	16.1	18	19.5	22	24	27	30	42
	Heating Power Input	kW	3.8	4.9	5.4	6.5	5.9	6.5	7.6	8.5	12.7
	COP		3.32	3.29	3.33	3.00	3.73	3.69	3.55	3.53	3.3
	Sound Pressure Level	dB(A)	54	55	55	57	56	56.5	57	57	62
Compressor	Type		Rotary DC Inverter				EVI DC Inverter				
	Quantity		1	1	1	1	1	1	1	1	1
Air side heat exchanger	Fan motor type		Brushless DC Fan Motor								
	Fans quantity		2	2	2	2	2	2	2	2	2
	Airflow	m³/h	2500~6600	2500~6600	2500~6600	2500~6600	2500~10500	2500~10500	2500~10500	2500~10500	2500~15000
Water side heat exchanger	Type		Brazeed Plate Heat Exchanger								
	Pump Type		Multiple-stage centrifugal pump								
	Nominal water flow	m³/h	1.93	2.41	2.67	3.10	3.44	3.78	4.30	4.82	6.88
	Unit external head	m	15	13	12	11	22	21	19	18	14
Dimensions & Weight	Height	mm	1320				1588				1700
	Width	mm	995				1100				1300
	Depth	mm	360				400				760
	Operating weight	kg	126	128	141	141	210	210	210	215	350
Electrical	Power supply	V/ph/Hz	220/1/50				380/3/50 400/3/50				

Nominal conditions: Cooling capacities in kW given for 12/7°C water leaving temperature and 35°C ambient temperature
Heating capacities in kW given for 40/45°C water leaving temperature and 7°C ambient temperature

About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 105,000 experts in more than 150 countries and over 130 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, Metasys®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, Ansul® and Grinnell®.

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AMICHI Series

Air cooled Scroll DC Inverter reversible heat pump

YMPA 045 to 260

A complete range from 44 kW up to 254 kW



Available in 2021

Exceeding Efficiency Standards

The YORK AMICHI Series Air-cooled Scroll DC Inverter Reversible Heat Pump have been designed to meet tomorrow's efficiency standards today. Delivering performance beyond typical chiller and heat pump efficiency levels, the YORK AMICHI Series meets or exceeds stringent regulatory requirements (see chart, below) through an optimized combination of YORK efficiency enhancing technologies.

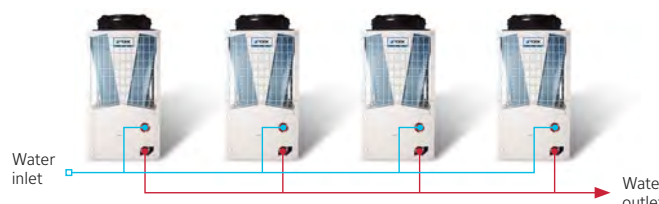
ECODESIGN REGULATIONS CATEGORY:	EFFICIENCY METRIC:	TOMORROW'S STANDARDS MET TODAY:
Comfort Heating	SCOP/ηsh	AMICHI Heat Pump: Sept. 2017 Compliant (Tier 2)
Comfort Cooling	SEER/ηsc	AMICHI Chiller: Jan. 2021 Compliant (Tier 2)
Process Cooling (Med. Temp.)	SEPR	AMICHI Chiller: July 2018 Compliant (Tier 2)
Process Cooling (High Temp.)	SEPR	AMICHI Chiller: Jan. 2021 Compliant (Tier 2)

Performance Without Compromise

The YORK AMICHI Series is a no-compromise solution for a variety of climates and locations. It can maintain efficiency in a variety of conditions without kits or add-ons (down to -18°C ambient in cooling mode and -15°C ambient in heating mode). With the smallest footprint across the widest capacity range on the market, the YORK AMICHI Series is also the perfect solution for high performance in smaller spaces. Our systems offer two levels of sound performance. If requirements call for sound attenuation beyond our standard low-noise levels, an optional Ultra Quiet Kit can further reduce sound power by 6 dBA, providing one of the quietest units available.

Modular system - Greater design flexibility

- 9 package models or modular combinations
- Controls can be parent/child controller if application requires
- Maximum of 32 units below 130 kW
- Maximum of 16 units above 130 kW



Air cooled Scroll DC Inverter reversible heat pump

YMPA 045 to 260



Technical features

Model			YMPA								
			45	65	80	100	130	160	200	230	260
Performance	Cooling capacity	kW	44	60	78	99	122	159	188	221	254
	EER		2.86	2.78	3.10	3.00	2.94	3.12	3.04	3.09	3.06
	SEER		4.38	4.50	4.43	4.24	4.42	4.24	4.28	4.17	4.34
	ηs,c		172	177	174	167	174	167	168	164	171
	Heating capacity	kW	46	55	84	91	126	161	182	224	245
	COP		2.96	2.99	3.12	3.05	2.83	3.08	3.06	3.05	3.07
	SCOP		3.43	3.45	3.40	3.37	3.39	3.53	3.53	3.40	3.32
	ηs,h		134	135	133	132	132	138	138	133	130
Refrigerant	Sound power level STD / LN (cooling)	dB(A)	81/75	83/78	82/78	84/79	85/81	87/82	88/83	88/83	89/84
	Refrigerant circuits	#	1	1	2	2	2	3	3	4	4
	Refrigerant charge (R410A)	kg	9.5	12.3	17.6	20.5	22.8	29.5	32	43.3	46
Compressor	Type		DC Scroll Inverter + Scroll								
	Capacity steps	%	Stepless (Inverter)								
	Quantity		2	2	3	3	4	5	6	7	8
Air side heat exchanger	Fan motor type		EC motor								
	Fans quantity		1	1	2	2	2	3	3	4	4
	Working ambient temp. cooling mode		-18 ~ 48°C								
	Working ambient temp. heat. mode		-15 ~ 25°C								
Water side heat exchanger	Type		Plate Heat Exchanger								
	Unit water volume (w/o pump kit)	l	9	10	11	14	15	27	29	32	34
	Pump Type		Fixed / Variable Speed Drive Pump					Variable Speed Drive Pump			
	Nominal water flow	l/s	2.1	2.9	3.7	4.7	5.8	7.4	9.1	10.5	11.9
	Pressure drop (cooling)	kPa	32	25	27	30	36	25	32	41	38
	Working range water leaving temp. cooling		-12 ~ 20°C								
	Working range water leaving temp. heating		25 ~ 55°C								
Dimensions and weight	Height (w/o pump kit)	mm	2440					2500			
	Width (w/o pump kit)	mm	1200					3050			
	Depth (w/o pump kit)	mm	1500					2240			
	Operating weight (w/o pump kit)	kg	587	610	893	920	999	1,922	2,003	2,235	2,316

Net values at Eurovent nominal conditions:

Cooling capacities in kW given for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature.

Heating capacities in kW given for 45°C water leaving temperature and 7°C ambient temperature.

SEER and SCOP calculated according to EN14511 and EN14825.

ηs calculated according to Ecodesign regulation for chillers comfort cooling and heating (813/2013, 2016/2281).

Ecodesign figures are calculated following fixed water and variable outlet approach (FW/VO). For other Ecodesign calculations, please contact your JCI representative.

The above data is based on Johnson Controls' selection software YORKworks 20.05b. Please refer to the latest version of the software for specific projects.

Perfect solution for rental application

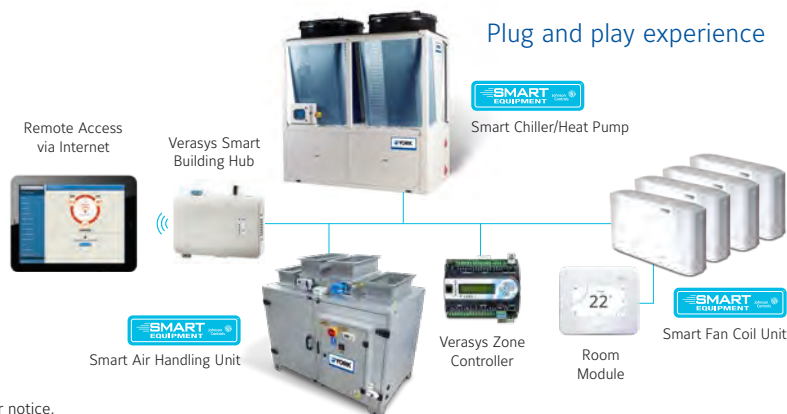
- Ambient operating range in cooling mode from -18 to 48°C
- Outstanding minimum leaving fluid temperature, down to -12°C
- Power quick connector CEE17 for main power (400/3/50, 3P+G) and 220V compressor heater (in chiller panel)
- Water quick connector Camlock (EN14420-7)
- Gate valves for water inlet/outlet connections
- Condenser coil: Gold fin pre-coating and wire mesh around coil

- Chiller IP54 and control panel IP55
- Low Sound compressor enclosure
- Available ESP up to 200 kPa at standard conditions
- Rental Panel (by request)
- Connected Service Kit (by request)
- Perfect solution for Ice-Rink rental applications

Note: please contact your JCI representative for getting your special quotation

Advanced Control Made Easy

To help maximize efficiency and keep you in control, the YORK AMICHI Series comes standard with integrated Smart Equipment. This technology allows the equipment to connect seamlessly to building controls like our world-class Verasys system, where smart-enabled equipment can self-identify and interoperate.



Manufacturer reserves the rights to change specifications without prior notice.

AMICHI Series

Air cooled Scroll DC Inverter reversible heat pump

Main features

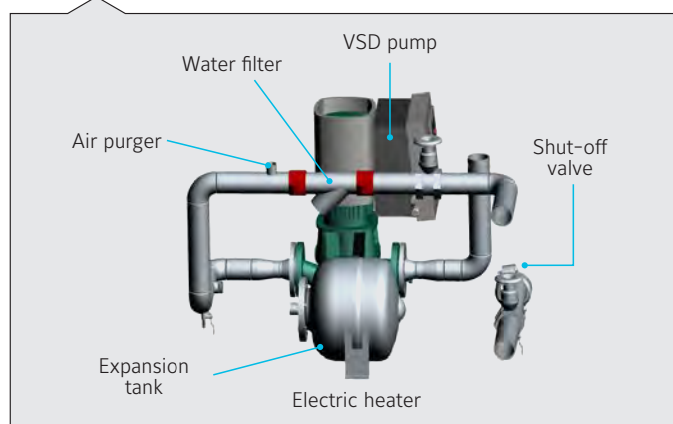
EC Fans

- High efficiency
- Low sound level
- Up to 50Pa available static pressure



Hydronic Kit

- Single fix speed pump hydronic kit or with variable speed **VSD**
- External available pressure up to **100 kPa (10m)** for fix speed pump
- External available pressure up to **150 kPa (15m)** for VSD pump



Easy installation

- Victaulic connections
- Water filter
- Flow switch
- Electrical heater on evaporator as standard

High performance and flexibility

The YORK AMICHI Series has up to 4 completely independent circuits to offer greater flexibility and performance.



YMPA 45 and 65
45kW and 65kW
2 compressors
1 circuit



YMPA 80 to 130
80kW, 100kW and 130kW
3-4 compressors
2 circuits



YMPA 160 and 200
160kW and 200kW
5-6 compressors
3 circuits



YMPA 230 and 260
230kW and 260kW
7-8 compressors
4 circuits

AMICHI Series

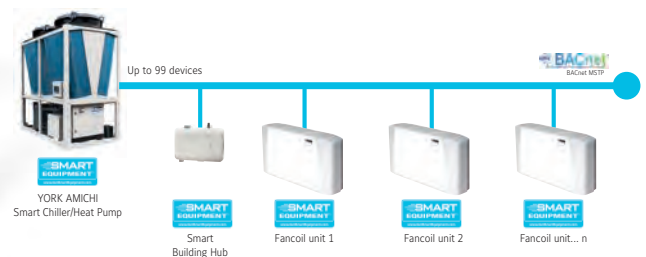
Air cooled Scroll DC Inverter reversible heat pump

Main features



Always connected

- BACnet and Modbus communication protocol as standard.



Easy to set up

Comfort, productivity and up to half of the energy used in your building – these are all factors affected by how your chiller operates and how it interacts with other components in your HVAC&R system.

To help maximize efficiency and keep you in control, the YORK AMICHI Series comes standard with integrated Smart Equipment. This technology allows the equipment to connect seamlessly to building controls where smart-enabled equipment can self-identify and interoperate. In addition, with the 7" Optiview LT touch panel, setting chiller parameters has never been easier.

YORK®	System Setpoints	
	System Setpoints	
System	Coil Temp. After Defrost	10 °C
Unit	Mode Control Select	HMI
Fault	ON/OFF Control Select	HMI
Diagnosis	Memory In Power Off	✓
Schedule	Clear Running Time	✗
HMI		
May, 24th 2020 15:58		

Maximum reliability

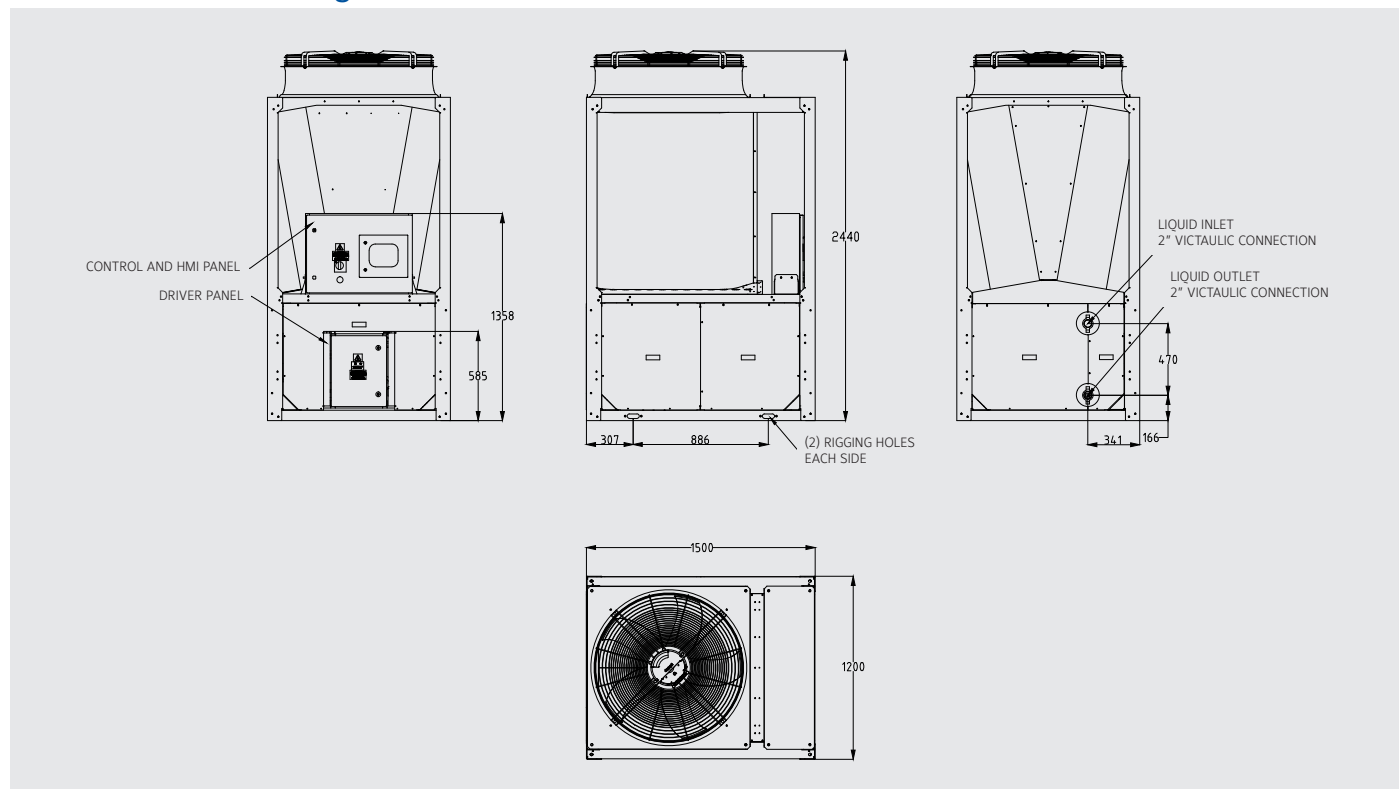
Every new YORK chiller is subjected to a Highly Accelerated Life Test (HALT) during the design product development stages, allowing us to simulate a variety of extreme conditions and ensuring long-term operational reliability and quality. But our pursuit of quality doesn't stop there.

- **Intelligent defrost** optimizes the sequencing of the defrost cycle and allows the remaining modules in the system to continue to provide heat, reducing interruptions.
- **Compliance and certifications** include EcoDesign 2021 regulatory compliance, Eurovent certification and CE/PED certification.



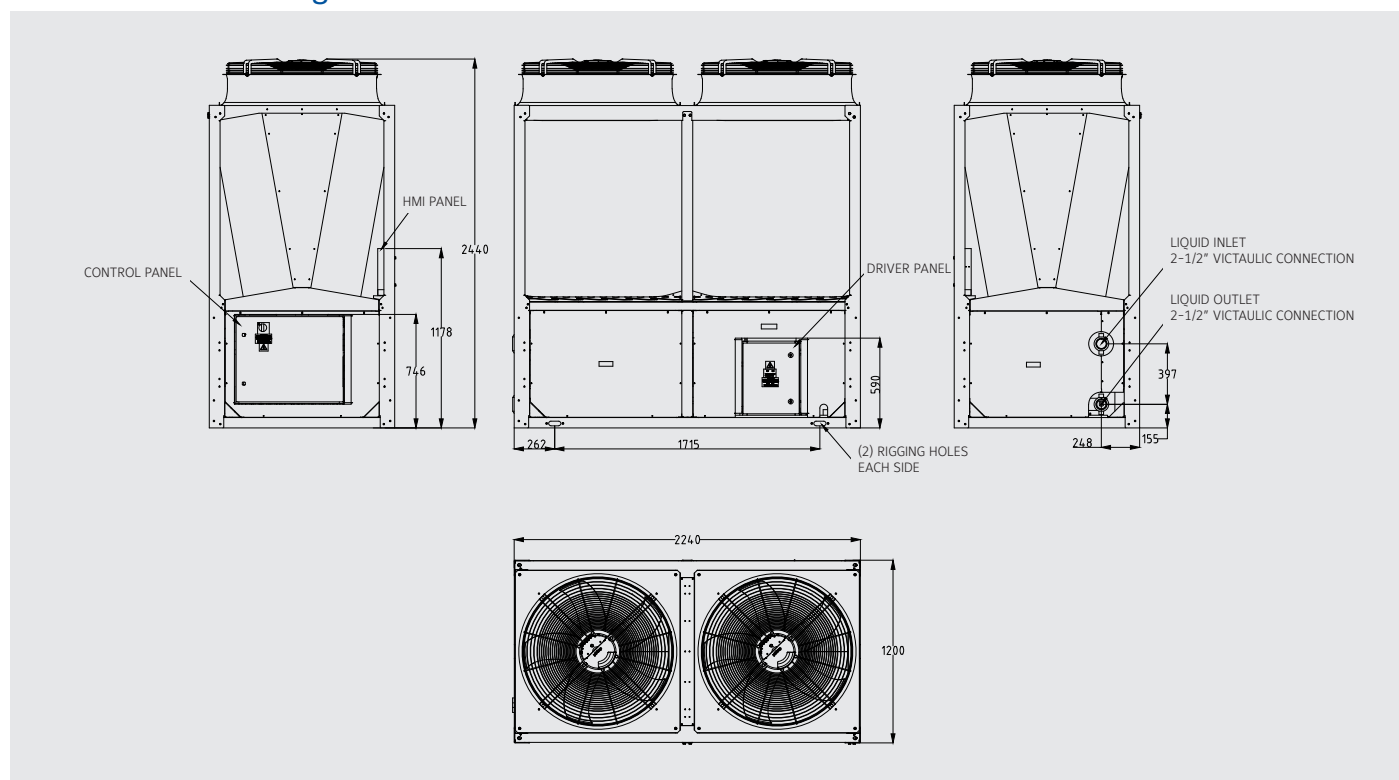
Dimensions and hydraulic connections

YMPA 045 and 065 Single unit



All dimensions in mm. Drawings not in scale.

YMPA 080 to 130 Single unit

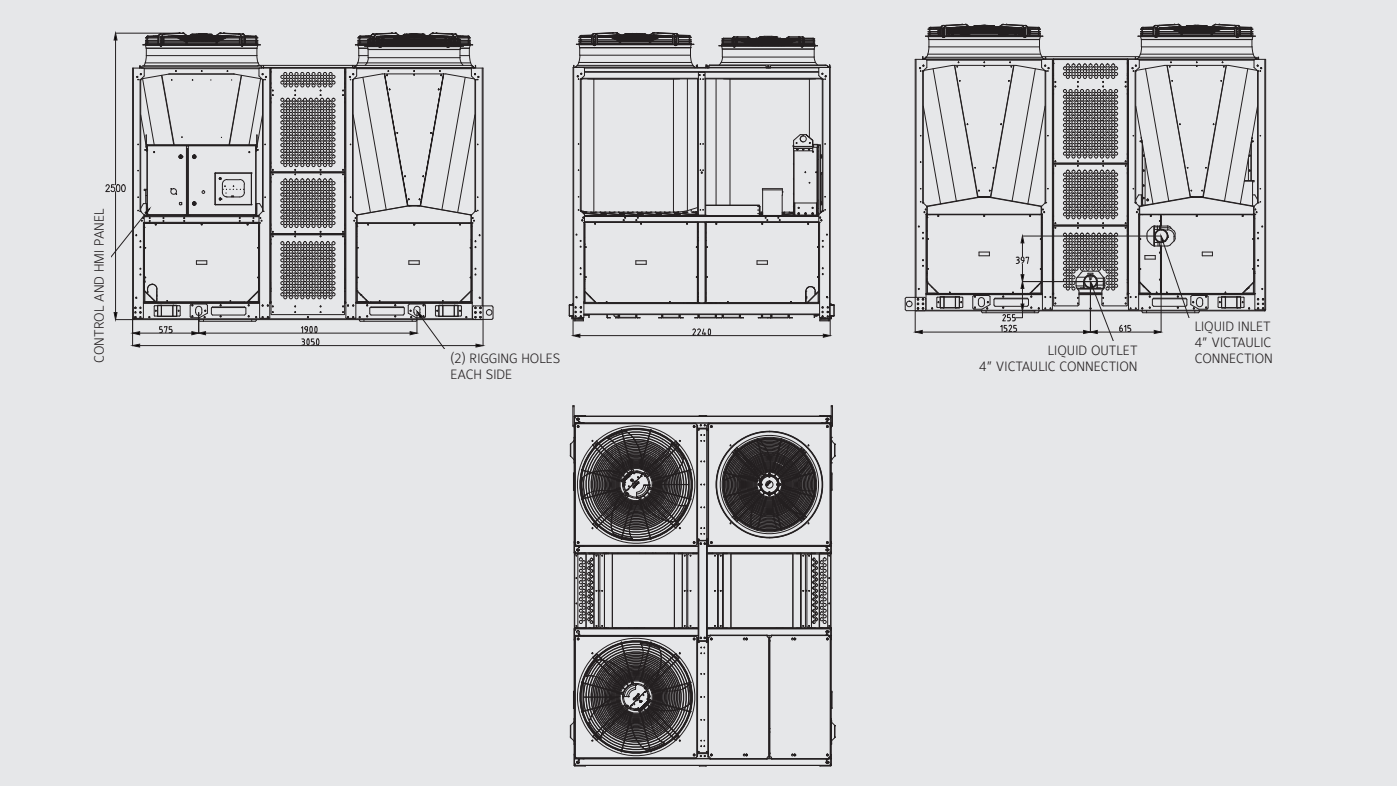


All dimensions in mm. Drawings not in scale.

YMPA 045 to 260

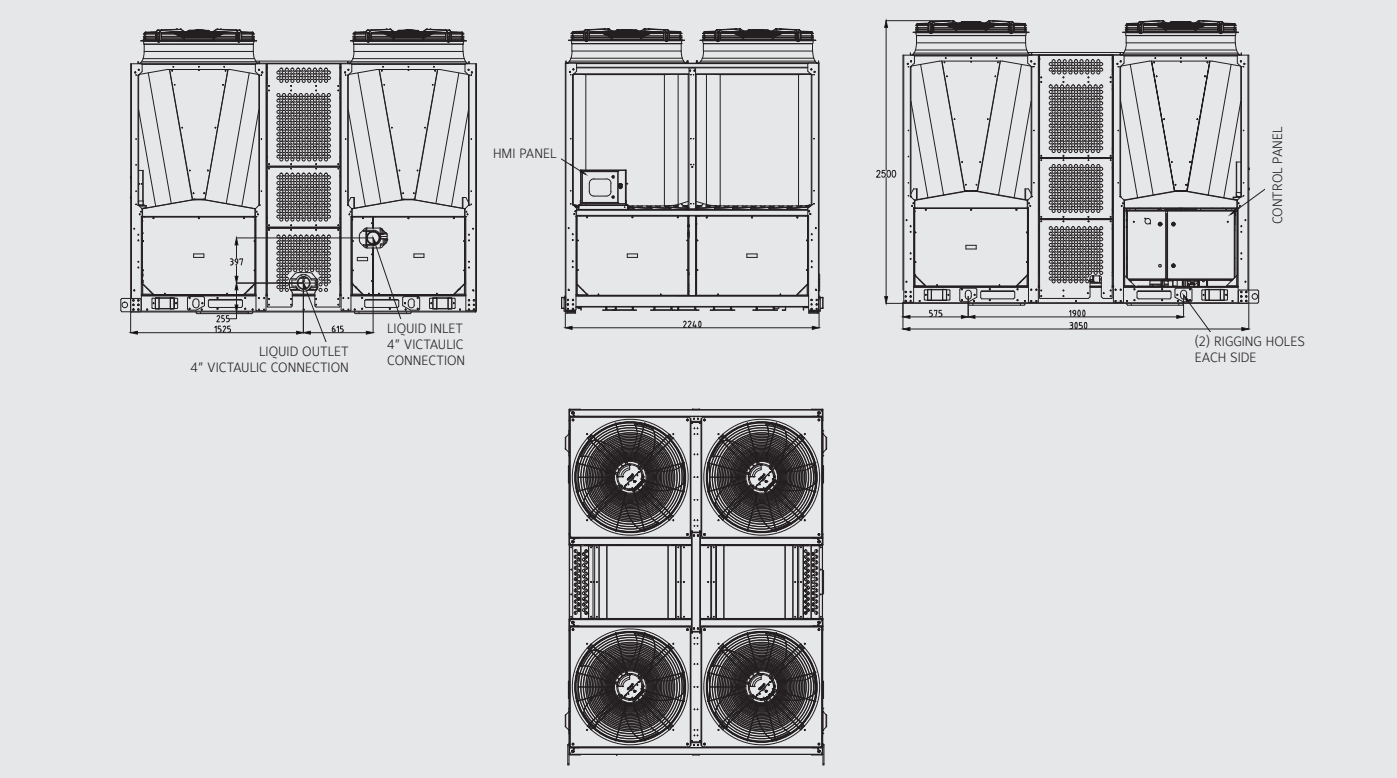


YMPA 160 and 200 Single unit



All dimensions in mm. Drawings not in scale.

YMPA 230 and 260 Single unit



All dimensions in mm. Drawings not in scale.