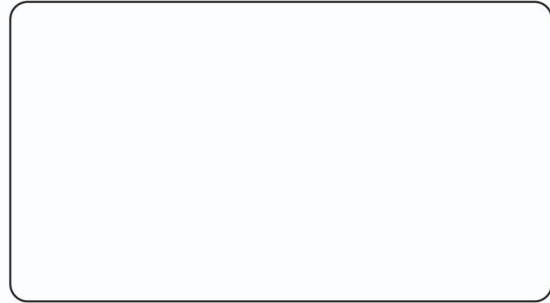


The products are distributed by



**OAK** Central Air Conditioning



**OAK** Central Air Conditioning  
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**Central A/C Line**  
2010~2011

## COMPANY BRIEF

OAK CENTRAL AIR CONDITIONING is a technology and quality oriented joint venture Company with more than 18 years experience in HVAC industry.

After acquisition of GEA Happel Air Condition Shandong Ltd. in 2006 which was a subsidiary of German GEA Group Company, OAK Central Air Conditioning was greatly upgraded and being a leading HVAC system solution provider in commercial and industrial application area. The newly established advanced production plant which functioned since July, 2010 builds a strong foundation and gives a new push for the OAK Central A/C global business growth. The company has top production equipment imported from Germany and USA in combination with German quality and technics management system, withal the company established joint testing center with National academy of architecture science and set up incorporated R&D center with most famous HVAC institutes of Tsinghua University. The reliability of our products is ensured by constant trials and demanding functional tests that allow us to maintain the highest standards of quality. All these were proved by ISO certification since 1995 and re-certified according to ISO 9001:2000 since 2003, moreover the products are CE marked and performance is attested by participation in Eurovent program.

As an AIR QUALITY EXPERT we are always paying full attention to room temperature, air humidity, CO<sub>2</sub> content, and air purity up to clean-room quality and turning these parameters into our exquisite products. Whether the VRF systems, Air cooled Chillers, Water cooled Chillers, Water Source heat pumps or the Fan Coils, VAV systems, Module Air Handling Units, Energy Recovery Units, all of our products are always environment friendly designed to provide an optimal indoor climate.

As a system solution provider we are providing components, systems, and services with high value-adding potential for our customers. OAK Central Air Conditioning is satisfying the requirements of demanding customers with increasing success. This is evidenced by introducing our products to luxury hotels, skyscrapers, museums, gymnasiums, hospitals and supermarkets, etc.

OAK CENTRAL AIR CONDITIONING - HVAC ECO-ENERGY SOLUTION.

## FACILITIES



## TESTING ROOMS



## QUALITY SYSTEM



OAK Industrial Park(ZB)



Headquarter(QD)

## PRODUCTS LINEUP

### Chiller



Mini Chiller (Split Type)  
9.5kW~16.2kW



Mini Chiller (Package Type)  
7.5kW~50.0kW



Air Cooled Modular Chiller  
30kW~1040kW



Air Cooled Screw Chiller  
162.8kW~1597kW



Water Cooled Scroll Chiller  
52.5kW~158kW



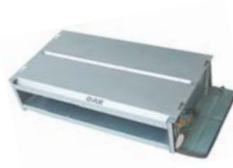
Water Cooled Screw Chiller  
99kW~4140kW

### Fan Coil

340~6000m<sup>3</sup>/h



Vertical Exposed



Ultra Thin



Vertical Concealed



Wall Mounted



Floor & Ceiling



Ceiling Exposed



Ceiling Concealed



Large Air Flow and  
High Static Pressure Type



1-Way Cassette



4-Way Cassette

### Air Handling Unit



AHU (Ceiling Suspend Type)  
1000~16000m<sup>3</sup>/h



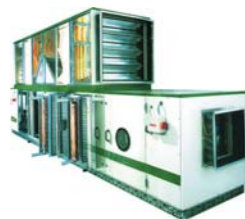
AHU (Remote Jet Type)  
1000~12000m<sup>3</sup>/h



AHU (Vertical Type)  
2000~35000m<sup>3</sup>/h



AHU (Horizontal Type)  
2000~60000m<sup>3</sup>/h



MAHU- P (Plus)  
1500~165000m<sup>3</sup>/h



MAHU-U (Ultra Thin)  
750~5000m<sup>3</sup>/h

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# CHILLER PRODUCTS

## AIR COOLED CHILLER

OAK Air Cooled Chillers include three products - Mini Chiller, Air Cooled Modular Chiller and Air Cooled Screw Chiller.

OAK Mini Chiller is ideally designed for residential and light commercial application which is suitable for houses, departments, villas, restaurants, offices and shops, etc. OAK mini chiller is featured as high energy efficiency, quiet operation as well as flexible installations.

OAK Air Cooled Modular Chiller was launched based on abundant technical & practical experience; It is widely installed in hotels, supermarkets, office buildings, airports, stadiums etc. High system stability and reliability ensure the lowest maintenance cost which justified the product to be the most cost effective solution as combination of equipment cost, operation cost and maintenance cost. Moreover, modular design makes the transportation and installation much easier.

OAK Air Cooled Screw Chiller is a compact, reliable and environment friendly system. Capacity range is from 162.8kW to 1597kW and available in normal refrigerant R22 as well as environment friendly refrigerant R407C and R134a. The system is widely used in middle-large commercial applications.



9.5kW~16.2kW



7.5kW~50.0kW



30kW~1040kW



162.8kW~1597kW

## WATER COOLED CHILLER

OAK Water Cooled Chillers include two products-Water Cooled Scroll Chiller & Water Cooled Screw Chiller.

OAK water cooled scroll chiller can provide chilled water and hot water for the terminal equipment of central air conditioning project, the unit adopts optimized modular design, which is combined freely & centralized controlled by microcomputer, the chiller can flexibly control the output through stopping or starting the right module according to the change of the air conditioning loads in order to save energy.

OAK Central Air Conditioning developed its own water cooled screw chiller based on German advanced technology. It can provide both cold water for central AC application and freezing water for industrial application. It is widely applied in hospital, hotel, commercial building, mining industry, chemical plant, etc.

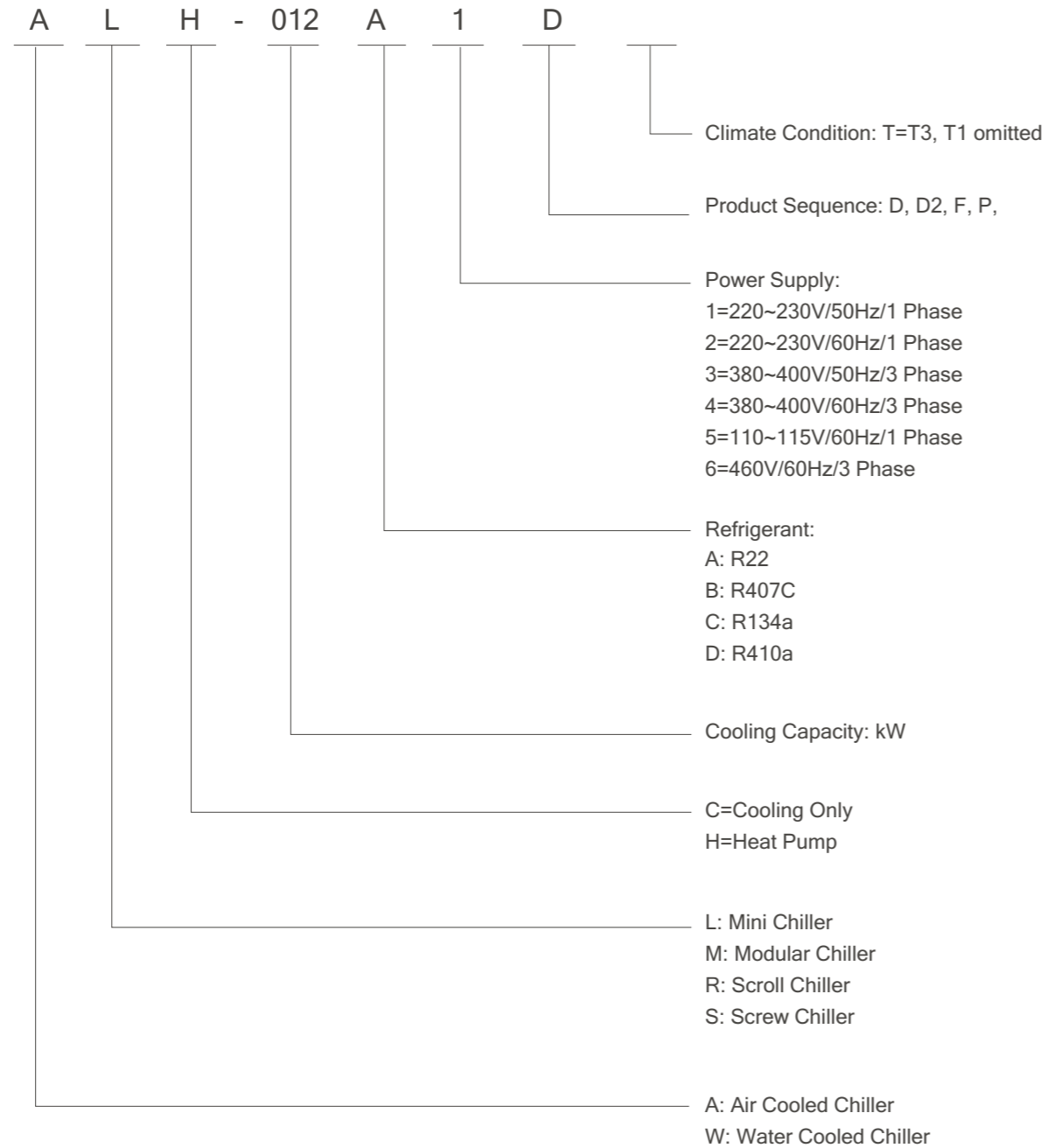


52.5kW~158kW



99kW~4140kW

## HOW TO READ THE MODELS



## MINI CHILLER (Split Type)



Heat pump  
R22 9.5/11.9/14.4/16.2kW  
T1

### Features and benefits

#### High efficiency & Energy saving

World top class scroll compressor and high efficiency tube-in-tube heat exchanger ensure that the unit operates at the highest efficiency and saves energy.



#### Space saving

Optimized casing design, less footprint, less space requirement.

The height of the compact hydraulic box is ONLY 290mm, more convenient installation.

#### High reliability & Multiple protection

Intelligent electric control system, accurate temperature detector & easy operation guarantee the high reliability and stability.

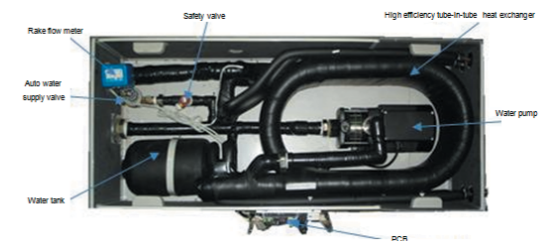
- Overload protection;
- Overheat protection;
- High/low voltage protection;
- High/low pressure protection;
- Water depletion/break protection;
- Anti-freezing protection etc.

#### Quiet operation

The outdoor noise is low thanks to the compressor's stable and quiet running, moreover, the water box's unique compact design also brings quiet and comfortable environment inside.

#### Convenient installation

The master unit and the water side heat exchanger are separate, which makes the installation much more flexible. The water box adopts unique design and consists of heat exchanger, water pump, water valve, flow switch, discharging valve and expansion tank. It can be installed as floor positioned or ceiling mounted.



### Nominal operating condition and Operating range

Item	Water side				Air side		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
Temp.	Inlet water temp.(°C)	Outlet water temp.(°C)	Outlet water temp.(°C)	Temp. difference between inlet and outlet (°C)	Ambient temp. (DB°C)	Ambient temp. (WB°C)	Ambient temp. (DB°C)
Cooling	12	7	5~15	2~7	35	28	16~43
Heating	40	45	25~50	3~7	7	6	-10~20

### Specification

**R22**

Model		ALH-010A1D2	ALH-012A3D2	ALH-014A3D2	ALH-016A3D2	
Nominal Cooling Capacity	kW	9.5	11.9	14.4	16.2	
Nominal Heating Capacity	kW	10.8	13.5	15.3	16.8	
Power Supply		220V/1Ph/50Hz		380V/3Ph/50Hz		
Power Input	Cooling	kW	3.04	3.68	4.12	5.54
	Heating	kW	3.18	3.85	4.46	5.7
Current	Starting	A	39	63	63	70
	Max. running	A	16.9	9.1	9.6	13.6
Compressor	Type	Scroll				
	Quantity	1	1	1	1	
	Rated power	kW	2.78/2.92	3.42/3.59	3.86/4.2	5.24/5.4
Refrigerant	Type	R22				
	Charge amount	kg	4	4.1	4.3	5.6
Control Mode		Automatic intelligent control				
Protection		high/low pressure prtn,water breakout prtn,anti-freeze prtn,overload prtn, over heat protection,over current prtn, power prtn, phase prtn.				
Heat Exchanger (air side)	Type	High efficiency hydrophilic aluminum fin & seamless copper				
	Fan type	Axial Fan				
	Fan quantity	2	2	2	2	
Heat Exchanger (water side)	Fan rated power	kW	0.13*2	0.13*2	0.13*2	0.15*2
	Type	High efficiency tube-in-tube heat exchanger				
	Water flow	m³/h	1.7	2.1	2.5	2.8
	Water pressure drop	kPa	63	68	68	45
Connection Pipe	Pump elevation	m	16	20	18	18
	Pump rated power	kW	0.4	0.4	0.4	0.4
Noise Level	Water pipe	DN40				
	Refrigerant pipe	9.52/19.05				
Net Weight	Master unit	dB(A)	57	57	58	60
	Water pump box	dB(A)	40	40	40	45
Gross Weight	Water unit	kg	87	90	94	98
	Water pump box	kg	68	70	74	78
Net Dimension	Water unit	kg	98	102	105	110
	Water pump box	kg	76	78	82	86
Package Dimension	Water unit (W*D*H)	mm	950*420*1250	950*420*1250	950*420*1250	950*420*1250
	Water pump box (W*D*H)	mm	1100*568*298	1100*568*298	1100*568*298	1100*568*298
Package Dimension	Water unit (W*D*H)	mm	960*430*1360	960*430*1360	960*430*1360	960*430*1360
	Water pump box (W*D*H)	mm	1130*588*320	1130*588*320	1130*588*320	1130*588*320

### MINI CHILLER (Packaged Type)



Heat pump  
R22 7.5-50kW  
R407C 7.1-47.5kW  
T1

### Features and benefits

#### High efficiency & Energy saving

Most advanced well known scroll compressor with better liquid handling, improved performance, and less moving parts increases the system operating efficiency and reliability.



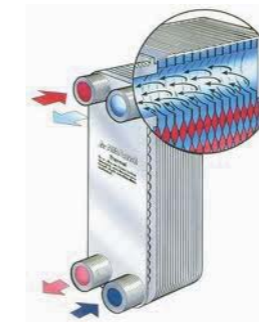
#### Intelligent & Precise control

Intelligent control automatically adapt the system operating parameters to match the load of the system in which the pump is installed, thus optimising the system energy consumption, efficiency and working life.



#### High efficiency plate heat exchanger

Compact design high efficiency plate heat exchanger with extremely low fouling factor and high pressure & temp resistance guarantees continuous system high performance.



#### Easy installation

Unit package design incorporated with a hydraulic module and less footprint ensures quick and easy installation.

#### High reliability & multiple protections

Multiple built-in protections make the unit more reliable:

- Overload protection;
- Overheat protection;
- High/low voltage protection;
- Water shortage protection;
- Anti-freezing protection etc.

## Nominal operating condition and Operating range

Item	Water side				Air side		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
Temp.	Inlet water temp.(°C)	Outlet water temp.(°C)	Outlet water temp.(°C)	Temp. difference between inlet and outlet (°C)	Ambient temp. (DB°C)	Ambient temp. (WB°C)	Ambient temp. (DB°C)
Cooling	12	7	5~15	2~7	35	28	16~43
Heating	40	45	40~50	3~7	7	6	-10~20

**R22**

Specification	Model	ALH-008A1P	ALH-010A1P	ALH-012A1P	ALH-016A3P	ALH-021A3P	ALH-025A3P	ALH-030A3P	ALH-040A3P	ALH-050A3P	
Nominal Cooling Capacity	kW	7.5	10.0	12.5	15.0	21.0	25.0	30.3	40.1	50.0	
Nominal Heating Capacity	kW	8.0	11.0	13.5	16.5	22.0	26.1	32.2	43.0	53.1	
Power Supply	V/Ph/Hz	220V/1Ph/50Hz				380V/1Ph/50Hz					
Power Input	Nominal Cooling	kW	2.7	3.6	4.5	5.3	7.5	9.1	11.0	14.0	17.3
	Nominal Heating	kW	2.8	3.7	4.6	5.4	8.2	10.0	11.0	14.3	17.9
Current	Nominal Cooling	A	12.1	16.5	20.5	9.5	13.1	16.2	20.0	25.5	31.5
	Nominal Heating	A	12.5	16.7	21.0	9.7	15.0	18.2	20.0	26.0	32.5
Compressor	Type	Scroll Compressor									
	Quantity	1	1	1	1	2	2	2	4	4	
	Rated power	kW	2.83	3.75	4.65	5.43	3.8*2	4.66*2	5.43*2	3.8*4	4.66*4
Refrigerant	Type	R22									
	Charge amount	kg	2.8	3.4	4	4.5	3.4*2	3.1*2	3.6*2	3.25*4	4.8*4
Heat Exchanger (Air side)	Fan type	Weather Proof-Low Noise-High Efficiency Axial Fan									
	Fan quantity	1	1	2	2	1	1	1	2	2	
	Fan rated power	kW	0.07	0.07	0.07*2	0.07*2	0.55	0.55	0.55	0.55*2	0.55*2
Evaporator (Water side)	Type	Plate Heat Exchanger									
	Water flow	m³/h	1.4	1.8	2.2	2.6	3.6	4.5	5.5	6.9	8.6
	Water pressure drop	kPa	20	20	30	30	40	40	50	50	50
	Pump head	m	16	15	14	16	25	23	26	24	30
Auxiliary Elec. Heater (Optional)	Pump rated power	kW	0.37	0.37	0.37	0.37	0.55	0.55	0.75	1.03	1.5
	Heater	kW	2	3	4	5	7	9	12	14	18
Connection Pipe	mm	DN32	DN32	DN32	DN32	DN40	DN40	DN50	DN50	DN50	
Noise Level	dB(A)	≤ 60	≤ 60	≤ 65	≤ 65	≤ 65	≤ 65	≤ 65	≤ 70	≤ 70	
Net Weight	kg	140	155	170	175	330	330	335	710	770	
Shipping Weight	kg	150	165	180	185	345	345	350	725	785	
Net Dimension (W*D*H)	mm	1120*480*890	1120*480*890	1120*480*1150	1250*530*1260	1260*880*960	1260*880*960	1260*1080*960	1973*1275*1156	1973*1275*1156	
Package Dimension (W*D*H)	mm	1200*500*1050	1200*500*1050	1200*500*1300	1350*550*1400	1350*1150*1150	1350*1150*1150	1350*1150*1350	2150*1400*1400	2150*1400*1400	

**R407C**

Specification	Model	ALH-008B1P	ALH-010B1P	ALH-012B1P	ALH-016B3P	ALH-021B3P	ALH-025B3P	ALH-030B3P	ALH-040B3P	ALH-050B3P	
Nominal Cooling Capacity	kW	7.1	9.5	11.9	14.5	20.0	23.8	28.5	38.0	47.5	
Nominal Heating Capacity	kW	7.6	10.5	12.8	15.7	20.9	24.7	30.4	39.9	49.4	
Power Supply	V/Ph/Hz	220V/1Ph/50Hz				380V/1Ph/50Hz					
Power Input	Nominal Cooling	kW	2.7	3.6	4.5	5.3	7.5	9.1	11.0	14.0	17.3
	Nominal Heating	kW	2.8	3.7	4.6	5.4	8.2	10.0	11.0	14.3	17.9
Current	Nominal Cooling	A	12.1	16.5	20.5	9.5	13.1	16.2	20.0	25.5	31.5
	Nominal Heating	A	12.5	16.7	21.0	9.7	15.0	18.2	20.0	26.0	32.5
Compressor	Type	Scroll Compressor									
	Quantity	1	1	1	1	2	2	2	4	4	
	Rated power	kW	2.83	3.75	4.65	5.43	3.8*2	4.66*2	5.43*2	3.8*4	4.66*4
Refrigerant	Type	R407C									
	Charge amount	kg	2.8	3.4	4	4.5	3.4*2	3.1*2	3.6*2	3.25*2	4.8*4
Heat Exchanger (Air side)	Fan type	Weather Proof-Low Noise-High Efficiency Axial Fan									
	Fan quantity	1	1	2	2	1	1	1	2	2	
	Fan rated power	kW	0.07	0.07	0.07*2	0.07*2	0.55	0.55	0.55	0.55*2	0.55*2
Evaporator (Water side)	Type	Plate Heat Exchanger									
	Water flow	m³/h	1.4	1.8	2.2	2.9	3.6	4.5	5.5	6.9	8.6
	Water pressure drop	kPa	20	20	30	30	40	40	50	50	50
	Pump head	m	16	15	14	16	25	23	26	24	30
Auxiliary Elec. Heater (Optional)	Pump rated power	kW	0.37	0.37	0.37	0.37	0.55	0.55	0.75	1.03	1.5
	Heater	kW	2	3	4	5	7	9	12	14	18
Connection Pipe	mm	DN32	DN32	DN32	DN32	DN40	DN40	DN50	DN50	DN50	
Noise Level	dB(A)	≤ 60	≤ 60	≤ 65	≤ 65	≤ 65	≤ 65	≤ 65	≤ 70	≤ 70	
Net Weight	kg	140	155	170	175	330	330	335	710	770	
Shipping Weight	kg	150	165	180	185	345	345	350	725	785	
Net Dimension (W*D*H)	mm	1120*480*890	1120*480*890	1120*480*1150	1250*530*1150	1260*960*880	1260*960*880	1260*960*1080	1973*1201*1156	1973*1201*1156	
Package Dimension (W*D*H)	mm	1200*500*1050	1200*500*1050	1200*500*1300	1350*550*1400	1350*1150*1150	1350*1150*1150	1350*1150*1350	2150*1400*1400	2150*1400*1400	

## AIR COOLED MODULAR CHILLER

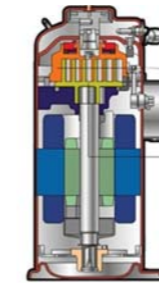


Cooling only & Heat pump  
R22 35/65kW Max 1040kW  
R407C 30/60kW Max 960kW  
T1

### Features and benefits

#### Flexible scroll compressor

Optimum refrigerant distribution technique, minimized components deformation design and non-lubricated rolling bearing guarantee high efficiency, reliable performance and low noise.



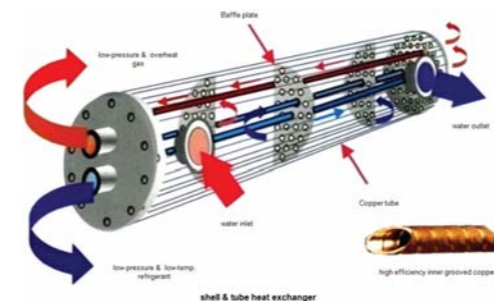
#### High Efficiency Air side heat exchanger

Highly efficient heat exchanger with inner grooved copper tubes and aluminum fins selects V-shaped design and low-speed axial fans. That ensures high efficiency, big air volume and low noise.



#### High efficiency shell & tube heat exchanger

The chiller adopts highly efficient shell & tube exchanger with self-cleaning function and anti-shaking design. It enlarges the cooling capacity range a lot and ensures the minimum noise.



#### Precise control

The electronic expansion valve can realize precise refrigerant and temperature control and ensure the equipment operating in precise and reliable status.



#### User-friendly and intelligent control system

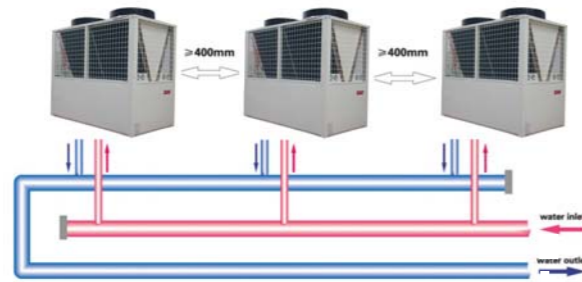
User-friendly touch controller provides an excellent operation experience. Self-diagnostic system checks the malfunction automatically and error alarm is displayed on outdoor PCB and also on touch controller.

#### Modular structure design

The units can realize modular operation. Up to 16 units can be integrated to achieve a maximum capacity 1040kW output system.

**Easy installation**

The units can be easily transported module by module, and it can be installed on the building roof or outside without requirement for dedicated machine rooms or water towers.



**Nominal operating condition and Operating range**

Item	Water side				Air side		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
Temp.	Inlet water temp.(°C)	Outlet water temp.(°C)	Outlet water temp.(°C)	Temp. difference between inlet and outlet (°C)	Ambient temp. (DB°C)	Ambient temp. (WB°C)	Ambient temp. (DB°C)
Cooling	12	7	5~15	2~7	35	28	16~45
Heating	40	45	25~50	3~7	7	6	-10~20

**Specification**

**R22 / R407C**

		R22		R407C		
Model Heat Pump		AMH-035A3D	AMH-065A3D	AMH-030B3D	AMH-060B3D	
Model Cooling Only		AMC-035A3D	AMC-065A3D	AMC-030B3D	AMC-060B3D	
Nominal Cooling Capacity	kW	35	65	31	58	
Nominal Heating Capacity	kW	37	70	34	63	
Heat Recovery Capacity(Optional)	kW	6.5	13.0	5.6	11.2	
Power Supply	V/Ph/Hz	380~400V-3Ph-50Hz				
Power Input	Cooling	kW	10.6	21.2	11.5	22.9
	Heating	kW	10.3	20.9	11.2	22.3
Current	Nominal. Running	A	19.6	39.3	19.5	39.1
	Starting	A	145	145	145	145
	Max. Running	A	25	48	25	48
Compressor	Type	Scroll Compressor				
	Quantity	2	4	2	4	
	Refrigerant Charge/R22	kg	11	18	11	18
Control Mode		Automatic				
Protection		High/low pressure prtn,water breakout prtn,anti-freeze prtn,over heat prtn, phase sequence prtn etc.				
Heat Exchanger (Air Side)	Type	Inner grooved cooper tube & High efficiency hydrophilic aluminum fin				
	Fan Type	Axial Fan				
	Fan Quantity	1	2	1	2	
	Fan Air Volume	m3/h	12062	24124	12062	24124
Heat Exchanger (Water Side)	Fan Rated Power	kW	0.75	0.75*2	0.75	0.75*2
	Type	Plate	Shell & tube	Plate	Shell & tube	
Heat Recovery (Optional)	Water Flow	m3/h	6.0	11.2	5.4	10.0
	Water Pressure Drop	kPa	110	80	110	80
	Connection Pipe	mm	DN65			
	Working Pressure	MPa	1.0 MPa			
Noise Level	Type	Plate	Plate	Plate	Plate	
	Water Flow	m3/h	1.1	2.2	1.1	2.2
	Water Pressure Drop	kPa	35	35	35	35
	Connection Pipe	mm	DN20	DN20	DN20	DN20
Weight	Max. Working Pressure	MPa	1.0	1.0	1.0	1.0
	Net Weight	kg	420	755	420	755
	Operating Weight	kg	460	860	460	860
Dimension	Shipping Weight	kg	500	820	500	820
	Net (W*D*H)	mm	1325*1000*1850	2158*1000*1850	1325*1000*1850	2158*1000*1850
	Package (W*D*H)	mm	1525*1200*2250	2358*1200*2250	1525*1200*2250	2358*1200*2250

**AIR COOLED SCREW CHILLER**

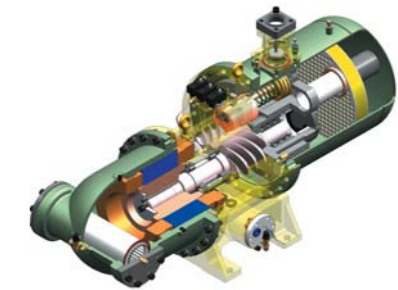


Cooling only & Heat pump  
 T1 R22 176kW~1600kW  
 T1 R407C 162kW~1506kW  
 T1 R134a 179kW~1173kW

**Features and benefits**

**High efficiency semi-hermetic screw compressor**

World famous brand semi-hermetic compressor with oil separator built inside has a long lifetime. It can realize 4 steps or stepless capacity control. The unique squirrel-cage compressor motor started up by Y-Δ type can decrease start current by 33%, automatically cooled by the refrigerant. The customer can carry out high efficiency and low cost.



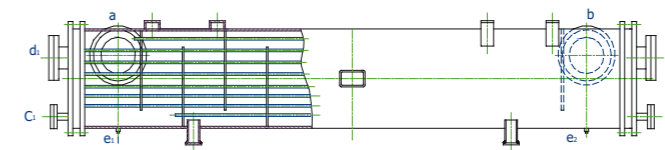
**High efficiency air side heat exchanger**

Unique M-shaped design, inner grooved & patent sawtooth design and hydrophilic aluminum fin guarantee efficient heat exchange between the air side exchanger and ambient air.



**Shell & tube heat exchanger**

DRY type shell & tube heat exchanger with inner grooved copper tubes optimizes the cooling & heating efficiency. Self-cleaning, high intensity, anti-shaking design and heat insulation covering material ensure shell & tube heat exchanger unstained, reliable, quiet, highly efficient.



**Complete protection**

Water shortage protection, high/low voltage protection, anti-freezing protection, overload protection, overheat protection and oil level protection ensure high reliability and stability.

**Electric control**

The system can realize remote operation. The system can monitor the water temperature, capacity status and operating time while running. The water temperature can be controlled according to the water outlet temperature. The system also can be controlled intelligently. Trouble shooting code may display on the touch screen automatically when the system is abnormal. The unit can realize the interlock between the cool water temperature and chilled water temperature.



**Reliable components**

ALCO thermal expansion valve may provide stable and accurate control. Dry filters for obstacles to 40um keep the units stainless. Other parts include corner valve, solenoid valve, four way valve, high/low safety pressure switches, etc.

**Convenient installation**

The system can be installed on the building roof or outside without special machine room and water tower. The system is applied for hotel, hospital, cinema, school, office building, etc.

**Nominal operating condition and Operating range**

Item	Water side				Air side		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
Temp.	Inlet water temp.(°C)	Outlet water temp.(°C)	Outlet water temp.(°C)	Temp. difference between inlet and outlet (°C)	Ambient temp. (DB°C)	Ambient temp. (WB°C)	Ambient temp. (DB°C)
Cooling/T1	12	7	5~15	2~7	35	28	16~43
Heating/T1	40	45	40~50	3~7	7	6	-10~20

**Specification**

Model Heat Pump		ASH-176A3D2	ASH-235A3D2	ASH-271A3D2	ASH-324A3D2	ASH-372A3D2	ASH-451A3D2	ASH-532A3D2	
Model Cooling Only		ASC-176A3D2	ASC-235A3D2	ASC-271A3D2	ASC-324A3D2	ASC-372A3D2	ASC-451A3D2	ASC-532A3D2	
Nominal Cooling Capacity	kW	176.1	235.4	271.3	324.4	371.7	451.1	532.3	
Nominal Heating Capacity	kW	204.3	273.1	314.7	376.3	431.2	523.3	617.7	
Heat Recovery Capacity(Optional)	kW	45	60	70	85	95	115	135	
Power Supply		V/Ph/Hz 380~400V/3Ph/50Hz							
Power Input	Cooling	kW	56.2	75.3	82.8	105.7	119.6	137.5	167
	Heating	kW	54	73	80	103	117	135	165
Current	Starting	A	301.5	402.3	444	573.9	642	733.8	877.2
	Nominal Running	A	100.5	134.1	148	191.3	214	244.6	292.4
	Max. Running	A	130.65	174.33	192.4	248.69	278.2	317.98	380.12
Compressor	Type	Semi-Hermetic Screw Compressor							
	Quantity	-	1	1	1	1	1	1	
	Rated Power Input	kW	51.8	70.8	76.2	96.9	107.6	125.5	149
	Starting Type	-	Y-Δ or Y/YY						
Capacity Adjusting	%	25%-100% 4 Step Control Or Stepless Control							
Refrigerant	Type	R22							
	Charge Volume	kg	53	69	76	95	107	130	150
Control Mode	-	Microprocessor Control (PLC)							
Protection	-	Power Prtn, Oil Level Prtn, High/Low Pressure Prtn,Overheat Prtn,Overload Prtn,Water flow prtn, Anti-Freeze Prtn etc.							
Condenser	Type	Hydrophilic Fins+High Efficiency Inner Grooved Cooper Tubes							
	Fan Type	Weather-Proff/Low Noise/High Efficiency Axial Fan							
	Fan Quantity	-	4	6	6	8	8	8	10
	Fan Air Volume	m³/h	64000	72000	96000	128000	168000	168000	250000
	Fan Power Input	kW	4.4	4.5	6.6	8.8	12	12	18
Evaporator	Type	High Efficiency Shell and Tube Exchanger							
	Water Flow	m³/h	30.3	40.5	46.7	55.8	63.9	77.6	91.6
	Water Pressure Drop	kPa	51.1	53.5	52.1	48.9	50.6	47.9	55.4
	Water Pipe Connection	DN	65FLG	80FLG	80FLG	100FLG	100FLG	125FLG	125FLG
	Max. Working Pressure	MPa	1.6 M Pa						
Heat Recovery (Optional)	Type	High Efficiency Shell and Tube Exchanger							
	Water Flow	m³/h	7.8	10.3	12	14.6	16.3	19.8	23.2
	Water Pressure Drop	kPa	37	38	39	42	43	45	58
	Water Pipe Connection	DN	50FLG	50FLG	50FLG	65FLG	65FLG	65FLG	65FLG
	Max. Working Pressure	MPa	1.6 M Pa						
Weight	Noise Level	dB (A)	75	76	79	81	81	83	
	Net Weight	kg	2250	2850	3150	4000	4100	4600	5200
	Operating Weight	kg	2450	3050	3350	4200	4300	4800	5400
	Shipping Weight	kg	2350	2950	3250	4100	4200	4700	5300
Dimension	Net (W*D*H)	mm	2340*2200*2270	2940*2200*2370	3100*2200*2370	4040*2200*2500	4040*2200*2500	4040*2200*2880	4980*2200*2880
	Package (W*D*H)	mm	2440*2300*2370	3040*2300*2470	3200*2300*2470	4140*2300*2600	4140*2300*2600	4140*2300*2980	5080*2300*2980

**R22/T1**

Model Heat Pump		ASH-649A3D2	ASH-743A3D2	ASH-902A3D2	ASH-1065A3D2	ASH-1115A3D2	ASH-1353A3D2	ASH-1597A3D2	
Model Cooling Only		ASC-649A3D2	ASC-743A3D2	ASC-902A3D2	ASC-1065A3D2	ASC-1115A3D2	ASC-1353A3D2	ASC-1597A3D2	
Nominal Cooling Capacity	kW	648.8	743.4	902.2	1064.6	1115.1	1353.4	1596.9	
Nominal Heating Capacity	kW	752.6	862.3	1046.6	1235.4	1293.5	1569.9	1853.2	
Heat Recovery Capacity(Optional)	kW	170	190	230	270	285	345	405	
Power Supply		V/Ph/Hz 380~400V/3Ph/50Hz							
Power Input	Cooling	kW	211.4	239.2	275	334	358.8	412.5	501
	Heating	kW	206	235	271	330	352	406	495
Current	Starting	A	765.2	856	978.4	1169.6	1091.4	1247.46	1491.24
	Nominal Running	A	382.6	428	489.2	584.8	642	733.8	877.2
	Max. Running	A	497.38	556.4	635.96	760.24	834.6	953.94	1140.36
Compressor	Type	Semi-Hermetic Screw Compressor							
	Quantity	-	2	2	2	2	3	3	3
	Rated Power Input	kW	193.8	215.2	251	298	322.8	376.5	447
	Starting Type	-	Y-Δ or Y/YY						
	Capacity Adjusting	%	12.5%-100% 8 Step Control Or Stepless Control				8.3%-100% 12 Step Control Or Stepless Control		
Refrigerant	Type	R22							
	Charge Volume	kg	190	214	260	300	321	390	450
Control Mode	-	Microprocessor Control (PLC)							
Protection	-	Power Prtn, Oil Level Prtn, High/Low Pressure Prtn,Overheat Prtn,Overload Prtn,Water flow prtn, Anti-Freeze Prtn etc.							
Condenser	Type	Hydrophilic Fins+High Efficiency Inner Grooved Cooper Tubes							
	Fan Type	Weather-Proff/Low Noise/High Efficiency Axial Fan							
	Fan Quantity	-	16	16	16	20	24	24	30
	Fan Air Volume	m³/h	256000	336000	336000	500000	504000	504000	750000
	Fan Power Input	kW	17.6	24	24	36	36	36	54
Evaporator	Type	High Efficiency Shell and Tube Exchanger							
	Water Flow	m³/h	111.6	127.8	155.2	183.8	191.8	232.7	274.7
	Water Pressure Drop	kPa	48.9	50.6	47.9	55.4	50.6	47.9	55.4
	Water Pipe Connection	DN	100FLGx2	100FLGx2	125FLGx2	125FLGx2	100FLGx2	125FLGx2	125FLGx2
	Max. Working Pressure	MPa	1.6 M Pa						
Heat Recovery (Optional)	Type	High Efficiency Shell and Tube Exchanger							
	Water Flow	m³/h	29.2	32.6	39.6	46.4	48.9	59.3	69.6
	Water Pressure Drop	kPa	44	46	49	62	48	52	66
	Water Pipe Connection	DN	65FLGx2	65FLGx2	65FLGx2	65FLGx3	65FLGx3	65FLGx3	65FLGx3
	Max. Working Pressure	MPa	1.6 M Pa						
Weight	Noise Level	dB (A)	82	82	83	83	82	83	85
	Net Weight	kg	8200	8400	9400	10600	12700	14200	16000
	Operating Weight	kg	8400	8600	9600	10800	12900	14400	16200
	Shipping Weight	kg	8300	8500	9500	10700	12800	14300	16100
Dimension	Net (W*D*H)	mm	8120*2200*2500	8120*2200*2500	8120*2200*2880	10000*2200*2880	12200*2200*2500	12200*2200*2880	15020*2200*2880
	Package (W*D*H)	mm	8220*2300*2600	8220*2300*2600	8220*2300*2980	10100*2300*2980	12300*2300*2600	12300*2300*2980	15120*2300*2980

**Specification**

**R407C/T1**

Model Heat Pump		ASH-163B3D2	ASH-214B3D2	ASH-258B3D2	ASH-308B3D2	ASH-349B3D2	ASH-424B3D2	ASH-502B3D2	
Model Cooling Only		ASC-163B3D2	ASC-214B3D2	ASC-258B3D2	ASC-308B3D2	ASC-349B3D2	ASC-424B3D2	ASC-502B3D2	
Nominal Cooling Capacity	kW	162.8	213.6	258	308	348.7	423.6	502	
Nominal Heating Capacity	kW	179	235.4	285.5	341.8	383.6	461.7	552	
Heat Recovery Capacity(Optional)	kW	40.7	53.4	64.5	77	87.2	105.9	125.5	
Power Supply	V/Ph/Hz	380~400V/3Ph/50Hz							
Power Input	Cooling	kW	54.7	71.2	84.7	103.6	115.9	139.1	167
	Heating	kW	52.1	69	82.2	101.6	113.9	137.1	165
Current	Starting	A	290.1	376.8	448.8	551.1	616.2	733.5	871.5
	Nominal Running	A	96.7	125.6	149.6	183.7	205.4	244.5	290.5
	Max. Running	A	125.7	163.3	194.5	238.8	267.0	317.9	377.7
Compressor	Type	-	Semi-Hermetic Screw Compressor						
	Quantity	-	1	1	1	1	1	1	1
	Rated Power Input	kW	50.3	66.7	78.1	94.8	103.9	127.1	149
	Starting Type	-	Y-Δ or Y/YY						
Capacity Adjusting	%	25%-100% 4 Step Control Or Stepless Control							
	Type	-	R407C						
Refrigerant	Charge Volume	kg	53	69	76	95	107	130	150
	Control Mode	-	Microprocessor Control (PLC)						
Protection	-	Power Prtn, Oil Level Prtn, High/Low Pressure Prtn, Overheat Prtn, Overload Prtn, Water flow prtn, Anti-Freeze Prtn etc.							
Condenser	Type	-	Hydrophilic Fins+High Efficiency Inner Grooved Cooper Tubes						
	Fan Type	-	Weather-Proff/Low Noise/High Efficiency Axial Fan						
	Fan Quantity	-	4	6	6	8	8	8	10
	Fan Air Volume	m³/h	64000	72000	96000	128000	168000	168000	250000
Evaporator	Fan Power Input	kW	4.4	4.5	6.6	8.8	12	12	18
	Type	-	High Efficiency Shell and Tube Exchanger						
	Water Flow	m³/h	28	36.7	44.4	53	60	72.8	86.3
	Water Pressure Drop	kPa	48	50.5	52	48.9	50.6	48.9	55.4
Heat Recovery (Optional)	Water Pipe Connection	DN	65FLG	80FLG	80FLG	100FLG	100FLG	125FLG	125FLG
	Max. Working Pressure	MPa	1.6MPa						
	Type	-	High Efficiency Shell and Tube Exchanger						
	Water Flow	m³/h	7	9.2	11.1	13.2	15	18.2	21.6
Noise Level	Water Pressure Drop	kPa	31.3	31.7	36.2	38.5	36.7	40.6	52.4
	Water Pipe Connection	DN	50	50	50	65	65	65	65
	Max. Working Pressure	MPa	1.6MPa						
Weight	Net Weight	kg	2250	2850	3150	4000	4100	4600	5200
	Operating Weight	kg	2450	3050	3350	4200	4300	4800	5400
	Shipping Weight	kg	2350	2950	3250	4100	4200	4700	5300
Dimension	Net (W*D*H)	mm	2240*2100*2170	2840*2100*2270	3000*2100*2270	3940*2100*2400	3940*2100*2400	3940*2100*2780	4880*2100*2780
	Package (W*D*H)	mm	2340*2200*2270	2940*2200*2370	3100*2200*2370	4040*2200*2500	4040*2200*2500	4040*2200*2880	4980*2200*2880

**R407C/T1**

Model Heat Pump		ASH-616B3D2	ASH-697B3D2	ASH-847B3D2	ASH-1004B3D2	ASH-1046B3D2	ASH-1271B3D2	ASH-1506B3D2	
Model Cooling Only		ASC-616B3D2	ASC-697B3D2	ASC-847B3D2	ASC-1004B3D2	ASC-1046B3D2	ASC-1271B3D2	ASC-1506B3D2	
Nominal Cooling Capacity	kW	616	697.4	847.2	1004	1046.1	1270.8	1506	
Nominal Heating Capacity	kW	683.6	767.2	923.4	1104	1150.8	1385.1	1656	
Heat Recovery Capacity(Optional)	kW	154	174.4	211.8	251	261.5	317.7	376.5	
Power Supply	V/Ph/Hz	380~400V/3Ph/50Hz							
Power Input	Cooling	kW	207.2	231.8	278.2	334	347.7	417.3	501
	Heating	kW	203.2	227.8	274.2	330	341.7	411.3	495
Current	Starting	A	734.8	821.6	978	1162	1047.54	1246.95	1481.55
	Nominal Running	A	367.4	410.8	489	581	616.2	733.5	871.5
	Max. Running	A	477.6	534.0	635.7	755.3	801.1	953.6	1133.0
Compressor	Type	-	Semi-Hermetic Screw Compressor						
	Quantity	-	2	2	2	2	3	3	3
	Rated Power Input	kW	189.6	207.8	254.2	298	311.7	381.3	447
	Starting Type	-	Y-Δ or Y/YY						
Capacity Adjusting	%	12.5%-100% 8 Step Control Or Stepless Control					8.3%-100% 12 Step Control Or Stepless Control		
	Type	-	R407C						
Refrigerant	Charge Volume	kg	190	214	260	300	321	390	450
	Control Mode	-	Microprocessor Control (PLC)						
Protection	-	Power Prtn, Oil Level Prtn, High/Low Pressure Prtn, Overheat Prtn, Overload Prtn, Water flow prtn, Anti-Freeze Prtn etc.							
Condenser	Type	-	Hydrophilic Fins+High Efficiency Inner Grooved Cooper Tubes						
	Fan Type	-	Weather-Proff/Low Noise/High Efficiency Axial Fan						
	Fan Quantity	-	16	16	16	20	24	24	30
	Fan Air Volume	m³/h	256000	336000	336000	500000	504000	504000	750000
Evaporator	Fan Power Input	kW	17.6	24	24	36	36	54	
	Type	-	High Efficiency Shell and Tube Exchanger						
	Water Flow	m³/h	106.9	119.9	145.7	172.6	179.9	218.5	259
	Water Pressure Drop	kPa	48.9	50.6	47.9	55.4	50.6	47.9	55.4
Heat Recovery (Optional)	Water Pipe Connection	DN	100FLGx2	100FLGx2	125FLGx2	125FLGx2	100FLGx3	125FLGx3	125FLGx 3
	Max. Working Pressure	MPa	1.6MPa						
	Type	-	High Efficiency Shell and Tube Exchanger						
	Water Flow	m³/h	26.5	30	36.4	43.2	45	54.6	64.7
Noise Level	Water Pressure Drop	kPa	39.4	39.2	44.5	56.6	40.9	47.1	60.1
	Water Pipe Connection	DN	65*2	65*2	65*2	65*3	65*3	65*3	65*3
	Max. Working Pressure	MPa	1.6MPa						
Weight	Net Weight	kg	8200	8400	9400	10600	12700	14200	16000
	Operating Weight	kg	8400	8600	9600	10800	12900	14400	16200
	Shipping Weight	kg	8300	8500	9500	10700	12800	14300	16100
Dimension	Net (W*D*H)	mm	8020*2100*2400	8020*2100*2400	8020*2100*2780	9900*2100*2700	12100*2100*2400	12100*2100*2780	150100*2100*2780
	Package (W*D*H)	mm	8120*2200*2500	8120*2200*2500	8120*2200*2880	10000*2200*2800	12200*2200*2500	12200*2200*2880	150200*2200*2880

**Specification**

**R134a/T1**

Model Heat Pump			ASH-179C3D2	ASH-245C3D2	ASH-300C3D2	ASH-351C3D2	ASH-391C3D2
Model Cooling Only			ASC-179C3D2	ASC-245C3D2	ASC-300C3D2	ASC-351C3D2	ASC-391C3D2
Nominal Cooling Capacity	kW		179	245.2	300.4	351.2	391.1
Nominal Heating Capacity	kW		207.1	282.9	348.2	407.3	452.5
Power Supply		V/Ph/Hz	380~400V/3Ph/50Hz				
Power Input	Cooling	kW	59.8	80.5	101.7	117.9	127
	Heating	kW	57.8	78.5	99.7	115.9	125
Current	Starting	A	319.5	432.6	550.5	633.6	680.1
	Nominal Running	A	106.5	144.2	183.5	211.2	226.7
	Max. Running	A	138.45	187.46	238.55	274.56	294.71
Compressor	Type	-	Semi-Hermetic Screw Compressor				
	Quantity	-	1	1	1	1	1
	Rated Power Input	kW	55.4	73.9	89.7	105.9	115
	Starting Type	-	Y-Δ or Y/YY				
Refrigerant	Capacity Adjusting	%	25%-100% 4 Step Control Or Stepless Control				
	Type	-	R134a				
	Charge Volume	kg	55	74	87	105	117
Control Mode		-	Microprocessor Control (PLC)				
Protection		-	Power Prtn, Oil Level Prtn, High/Low Pressure Prtn, Overheat Prtn, Overload Prtn, Water flow prtn, Anti-Freeze Prtn etc.				
Condenser	Type	-	Hydrophilic Fins+High Efficiency Inner Grooved Cooper Tubes				
	Fan Type	-	Weather-Proff/Low Noise/High Efficiency Axial Fan				
	Fan Quantity	-	4	6	8	8	8
	Fan Air Volume	m³/h	64000	96000	168000	168000	168000
Evaporator	Fan Power Input	kW	4.4	6.6	12	12	12
	Type	-	High Efficiency Shell and Tube Exchanger				
	Water Flow	m³/h	30.8	42.2	51.7	60.4	67.3
	Water Pressure Drop	kPa	55.7	59.3	58	60.5	62.7
Evaporator	Water Pipe Connection	DN	80FLG	100FLG	100FLG	125FLG	80FLGx2
	Max. Working Pressure	MPa	1.6 MPa				
Noise Level		dB (A)	71	73	74	75	76
Weight	Net Weight	kg	2050	2850	3700	3800	4300
	Operating Weight	kg	2250	3050	3900	4000	4500
	Shipping Weight	kg	2150	2950	3800	3900	4400
Dimension	Net (W*D*H)	mm	2340*2200*2270	3100*2200*2370	4040*2200*2500	4040*2200*2500	4040*2200*2880
	Package (W*D*H)	mm	2440*2300*2370	3200*2300*2470	4140*2300*2600	4140*2300*2600	4140*2300*2980

**R134a/T1**

Model Heat Pump			ASH-490C3D2	ASH-601C3D2	ASH-702C3D2	ASH-782C3D2	ASH-901C3D2	ASH-1054C3D2	ASH-1173C3D2
Model Cooling Only			ASC-490C3D2	ASC-601C3D2	ASC-702C3D2	ASC-782C3D2	ASC-901C3D2	ASC-1054C3D2	ASC-1173C3D2
Nominal Cooling Capacity	kW		490.4	600.8	702.4	782.2	901.2	1053.6	1173.3
Nominal Heating Capacity	kW		565.8	696.4	814.6	905	1044.6	1221.9	1357.5
Power Supply		V/Ph/Hz	380~400V/3Ph/50Hz						
Power Input	Cooling	kW	161	203.4	235.8	254	305.1	353.7	381
	Heating	kW	157	199.4	231.8	250	299.1	347.7	375
Current	Starting	A	576.8	734	844.8	906.8	935.85	1077.12	1156.17
	Nominal Running	A	288.4	367	422.4	453.4	550.5	633.6	680.1
	Max. Running	A	374.92	477.1	549.12	589.42	715.65	823.68	884.13
Compressor	Type	-	Semi-Hermetic Screw Compressor						
	Quantity	-	2	2	2	2	3	3	3
	Rated Power Input	kW	147.8	179.4	211.8	230	269.1	317.7	345
	Starting Type	-	Y-Δ or Y/YY						
Refrigerant	Capacity Adjusting	%	12.5%-100% 8 Step Control Or Stepless Control				8.3%-100% 12 Step Control Or Stepless Control		
	Type	-	R134a						
	Charge Volume	kg	148	174	210	234	261	315	351
Control Mode		-	Microprocessor Control (PLC)						
Protection		-	Power Prtn, Oil Level Prtn, High/Low Pressure Prtn, Overheat Prtn, Overload Prtn, Water flow prtn, Anti-Freeze Prtn etc.						
Condenser	Type	-	Hydrophilic Fins+High Efficiency Inner Grooved Cooper Tubes						
	Fan Type	-	Weather-Proff/Low Noise/High Efficiency Axial Fan						
	Fan Quantity	-	12	16	16	16	24	24	24
	Fan Air Volume	m³/h	192000	336000	336000	336000	504000	504000	504000
Evaporator	Fan Power Input	kW	13.2	24	24	24	36	36	36
	Type	-	High Efficiency Shell and Tube Exchanger						
	Water Flow	m³/h	84.4	103.4	120.8	134.6	155.1	181.2	201.9
	Water Pressure Drop	kPa	59.3	58	60.5	62.7	58	60.5	62.7
Evaporator	Water Pipe Connection	DN	100FLGx2	100FLGx2	125FLGx2	100FLGx3	100FLGx3	125FLGx3	125FLGx3
	Max. Working Pressure	MPa	1.6 MPa						
Noise Level		dB (A)	76	77	78	80	79	80	82
Weight	Net Weight	kg	5900	7700	7800	8800	11500	11800	13300
	Operating Weight	kg	6100	7800	8000	9000	11700	12000	13500
	Shipping Weight	kg	6000	7600	7900	8900	11600	11900	13400
Dimension	Net (W*D*H)	mm	6240*2200*2370	8120*2200*2500	8120*2200*2500	8120*2200*2880	12200*2200*2500	12200*2200*2500	12200*2200*2880
	Package (W*D*H)	mm	6340*2300*2470	8220*2300*2600	8220*2300*2600	8220*2300*2980	12300*2300*2600	12300*2300*2600	12300*2300*2980

**Water Cooled Scroll Chiller**



Cooling Only  
R22 78.6kW~158.0kW  
R134a 52.5kW~105.0kW

**Features and benefits**

**High efficiency scroll compressor**

Most advanced well known scroll compressor with better liquid handling, improved performance, and less moving parts increases the system operating efficiency and reliability. Multiple scroll compressor used, the system energy efficiency been greatly improved at part-load performance.

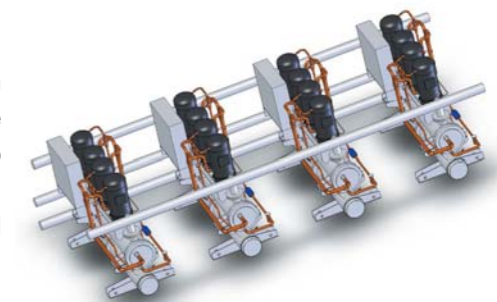


**High efficiency shell & tube heat exchanger**

Self-cleaning, high intensity and anti-shaking designed shell & tube heat exchanger been used to enhance the heat emission and exchange efficiency. Inner grooved cooper tube optimized the heat transfer efficiency again therefore increase the system performance.

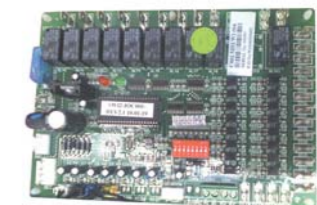
**Flexible combination & convenient installation**

Each unit can be freely connected to the other module and maximum four modules can be connected into one water system to achieve bigger capacity. Each module can be controlled individually to reach highest efficiency at part-load condition. Modularized design is very convenient for installation and maintenance.



**Intelligent & Precise control**

Intelligent control automatically adapt the system operating parameters to match the load of the system in which the pump is installed, thus optimising the system energy consumption, efficiency and working life.



**High reliability & multiple protections**

Multiple built-in protections make the unit more reliable: Overload protection; Overheat protection; High/low voltage protection; Water shortage protection; Anti-freezing protection etc.

\*Heat pump application ( Water source/Ground source ) is available up to requirement.

### Nominal operating condition and Operating range

Item	Nominal Operating Condition				Operating Range					
	Chilled Water		Heat Recovery Water(Optional)		Cooling Water		Chilled Water		Cooling Water	
Temp.	Inlet water temp.(°C)	Outlet water temp.(°C)	Inlet water temp.(°C)	Outlet water temp.(°C)	Inlet water temp.(°C)	Outlet water temp.(°C)	Outlet water temp.(°C)	Temp. difference between inlet and outlet (°C)	Inlet water temp.(°C)	Temp. difference between inlet and outlet (°C)
Cooling	12	7	40	45	30	35	5~15	2~8	20~40	2~10

### Specification

**R22**

Specification	WRC-A3D	WRC-080A3D	WRC-120A3D	WRC-160A3D
Nominal Cooling Capacity	kW 78.6	22	34	45
Heat Recovery Capacity(Optional)	RT 23.6	47.4		
Power Supply	V/Ph/Hz 380~400V/3Ph/50Hz			
Power Input	kW 15.7	23.6	31.6	
Current	Nominal Running	A 28.8	44.1	58.2
	Starting	A 148	148	148
	Max. Running	A 40.5	61.7	82.1
Compressor	Type	- Scroll		
	Quantity	- 2		
	Capacity Adjusting	-% 0-100%		
	Refrigerant Charge/R22	kg 9.0		
Control Mode	- Automatic Control			
Protection	- High/Low pressure prtn, Short of water prtn, Anti-freeze prtn, Phase prtn, Overload prtn, Overheat prtn, etc			
Evaporator	Type	- Shell & Tube		
	Water Flow	m³/h 13.5	20.3	27.1
	Water Pressure Drop	kPa 15	18	20
	Refrigerant Flow Circuit	- 2		
	Connection Pipe	DN/mm 65	65	65
	Fouling Factor	- 0.044m²·°C/kW		
	Working Pressure	MPa 1.0 MPa		
Condenser	Type	- Shell & Tube		
	Water Flow	m³/h 16.2	24.3	32.8
	Water Pressure Drop	kPa 12.0	16.0	35.0
	Water Flow Circuit	- 2		
	Connection Pipe	DN/mm 65	65	65
	Fouling Factor	- 0.018m²·°C/kW		
	Working Pressure	MPa 1.0 MPa		
Heat Recovery (Optional)	Type	- Shell & Tube		
	Water Flow	m³/h 2.1	3.0	4.1
	Water Pressure Drop	kPa 12.0	16.0	35.0
	Water Flow Circuit	- 2		
	Connection Pipe	DN/mm 32	32	40
	Fouling Factor	- 0.018m²·°C/kW		
Noise Level	dB (A) <65			
Weight	Net Weight	kg 473	693	860
	Operating Weight	kg 523	743	910
Shipping Dim	Width	mm 1898	1995	2400
	Depth	mm 500	600	750
	Height	mm 1246	1296	1356

### Nominal operating condition and Operating range

Item	Nominal Operating Condition				Operating Range			
	Chilled Water		Cooling Water		Chilled Water		Cooling Water	
Temp.	Inlet water temp.(°C)	Outlet water temp.(°C)	Inlet water temp.(°C)	Outlet water temp.(°C)	Outlet water temp.(°C)	Temp. difference between inlet and outlet (°C)	Inlet water temp.(°C)	Temp. difference between inlet and outlet (°C)
Cooling	12	7	30	35	5~15	2~8	20~40	2~10

### Specification

**R134a**

Specification	WRC-C3D	WRC-55C3D	WRC-80C3D	WRC-105C3D
Nominal Cooling Capacity	kW 52.5	78.3	105.0	
Heat Recovery Capacity(Optional)	RT 15	22.3	29.9	
Power Supply	V/Ph/Hz 380~400V/3Ph/50Hz			
Power Input	kW 10.5	15.8	21.5	
Current	Nominal Running	A 20.4	30.8	41.5
	Starting	A 118	118	118
	Max. Running	A 28.6	44.3	57.9
Compressor	Type	- Scroll		
	Quantity	- 2		
	Capacity Adjusting	-% 0-100%		
	Refrigerant Charge/R22	kg 13.0		
Control Mode	- Automatic Control			
Protection	- High/Low pressure prtn, Short of water prtn, Anti-freeze prtn, Phase prtn, Overload prtn, Overheat prtn, etc			
Evaporator	Type	- Shell & Tube		
	Water Flow	m³/h 9.0	13.5	18.0
	Water Pressure Drop	kPa 15	18	20
	Refrigerant Flow Circuit	- 2		
	Connection Pipe	DN/mm 50	65	65
	Fouling Factor	- 0.044m²·°C/kW		
	Working Pressure	MPa 1.0 MPa		
Condenser	Type	- Shell & Tube		
	Water Flow	m³/h 10.8	16.2	21.7
	Water Pressure Drop	kPa 12.0	16.0	35.0
	Water Flow Circuit	- 2		
	Connection Pipe	DN/mm 50	65	65
	Fouling Factor	- 0.018m²·°C/kW		
	Working Pressure	MPa 1.0 MPa		
Noise Level	dB (A) <65			
Weight	Net Weight	kg 480	698	880
	Operating Weight	kg 542	753	940
Shipping Dim	Width	mm 1898	1995	2490
	Depth	mm 500	600	800
	Height	mm 1246	1296	1356

## WATER COOLED SCREW CHILLER

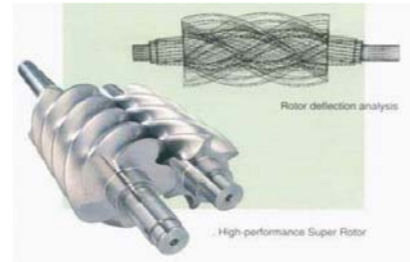
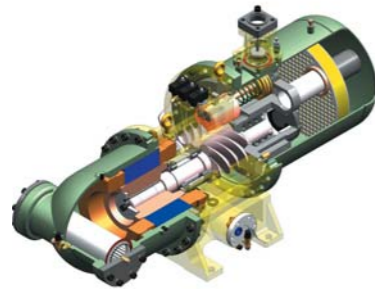


Cooling only  
R22 149kW~4140kW  
R134a 99kW~2830kW  
T1/T3

### Features and benefits

#### High efficiency compressor

- Advanced twin screws compressor with optimum structure can realize automatic stepless or 4 steps capacity control to achieve high efficiency.
- Running noise is low thanks to low friction area inside the compressor.
- The compressor has a long lifetime profiting from high performance of interior oil segregator.



#### Precise Control

- Adopt the outer balance type thermal expansion valve, superior quality.

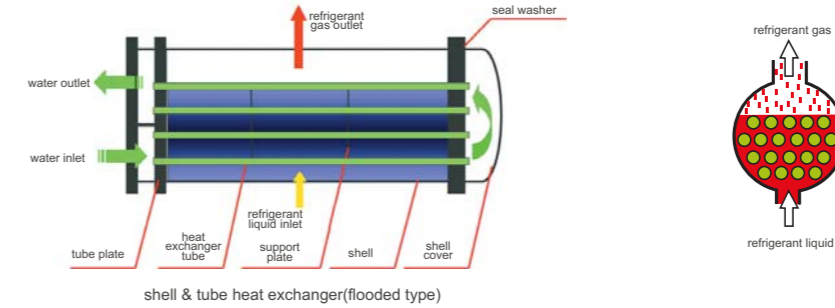
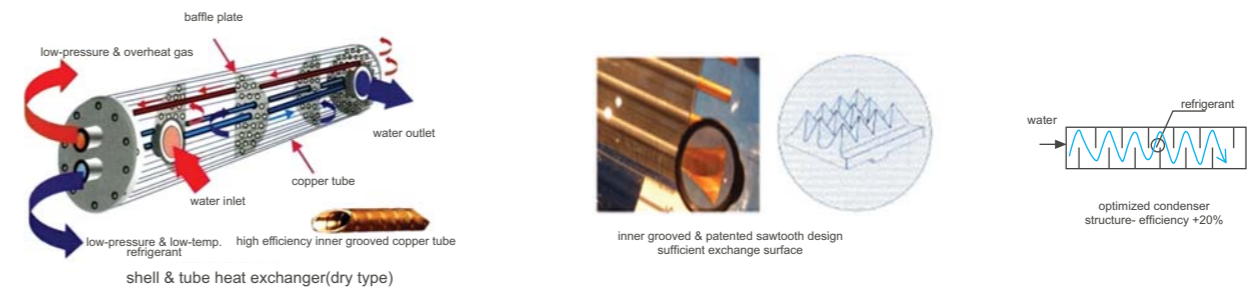


#### Complete protections ensure high reliability and stability

- Compressor overload protection
- Overheat protection
- Wrong or reverse phase protection
- High/low pressure protection
- Oil level protection
- Chilled or cooling water shortage protection
- Anti-freezing protection for chiller water
- Temperature sensor or communication failure malfunction alarm

#### Highly efficient and reliable heat exchanger

- Flooded type (optional) / dry type evaporator and shell & tube condenser, with unique heat exchanger structure and optimum copper pipe combination, enhance the heat emission and exchange efficiency greatly.
- Self-cleaning, high intensity and anti-shaking design ensure the heat exchanger unstained, reliable, quiet.



#### Control functions

- Distant control function
- Multiple operation control function: cooling, self-diagnostic, manual changeover
- Record the malfunction query function
- User-friendly operation touch controller
- Intelligent control compatible with most communication

#### Network communication

- Support multiple electronic communication protocol
- Group control for multiple master units & Network communication with multiple intelligent equipments
- Compressors start up in sequence and balance the friction each other
- Self-diagnostic & Self-lock function
- Fully automatically energy saving operation

\*Heat pump application ( Water source/Ground source ) is available up to requirement.

### Nominal operating condition and Operating range

Item	Nominal Cooling Operating Condition				Operating Range			
	Chilled Water		Cooling Water		Chilled Water		Cooling Water	
Temp.	Inlet water temp.(°C)	Outlet water temp.(°C)	Inlet water temp.(°C)	Outlet water temp.(°C)	Outlet water temp.(°C)	Temp. difference between inlet and outlet (°C)	Inlet water temp.(°C)	Temp. difference between inlet and outlet (°C)
Cooling	12	7	30	35	5~15	2~8	20~40	2~10





# AIRSIDE PRODUCTS



## FAN COIL

OAK Fan Coil units have become a hall mark for de-central air treatment, with top levels of comfort and truly impressive cost-effectiveness. A selection of OAK versatile fan coil units assures that we offer you the perfect solution for each of your individual requirements.

### **Practical orientation**

OAK fan coil units offer an extensive portfolio of solutions for all applications involving de-central air handling.

### **Effectiveness**

OAK fan coil units guarantee cosy and comfortable room atmosphere.

### **Space saving**

OAK fan coil units assure optimal use of available space by their design and installation possibilities.

### **Flexible**

Depending on the model type, the customer enjoys a selection among possibilities of media connection to the heat exchangers as well as the possibility of implementing heating and cooling with 2 or 4 conductor operation.

### **Quietness**

Sophisticated systems mean that OAK fan coil units are characterized by a minimum of noise emission.

### **Functionality**

OAK fan coil units offer highly functional controller concepts and optimal interfacing with building management systems.

### **Stylishness**

The modern appealing design of OAK fan coil units is truly impressive.

### **Cost effectiveness**

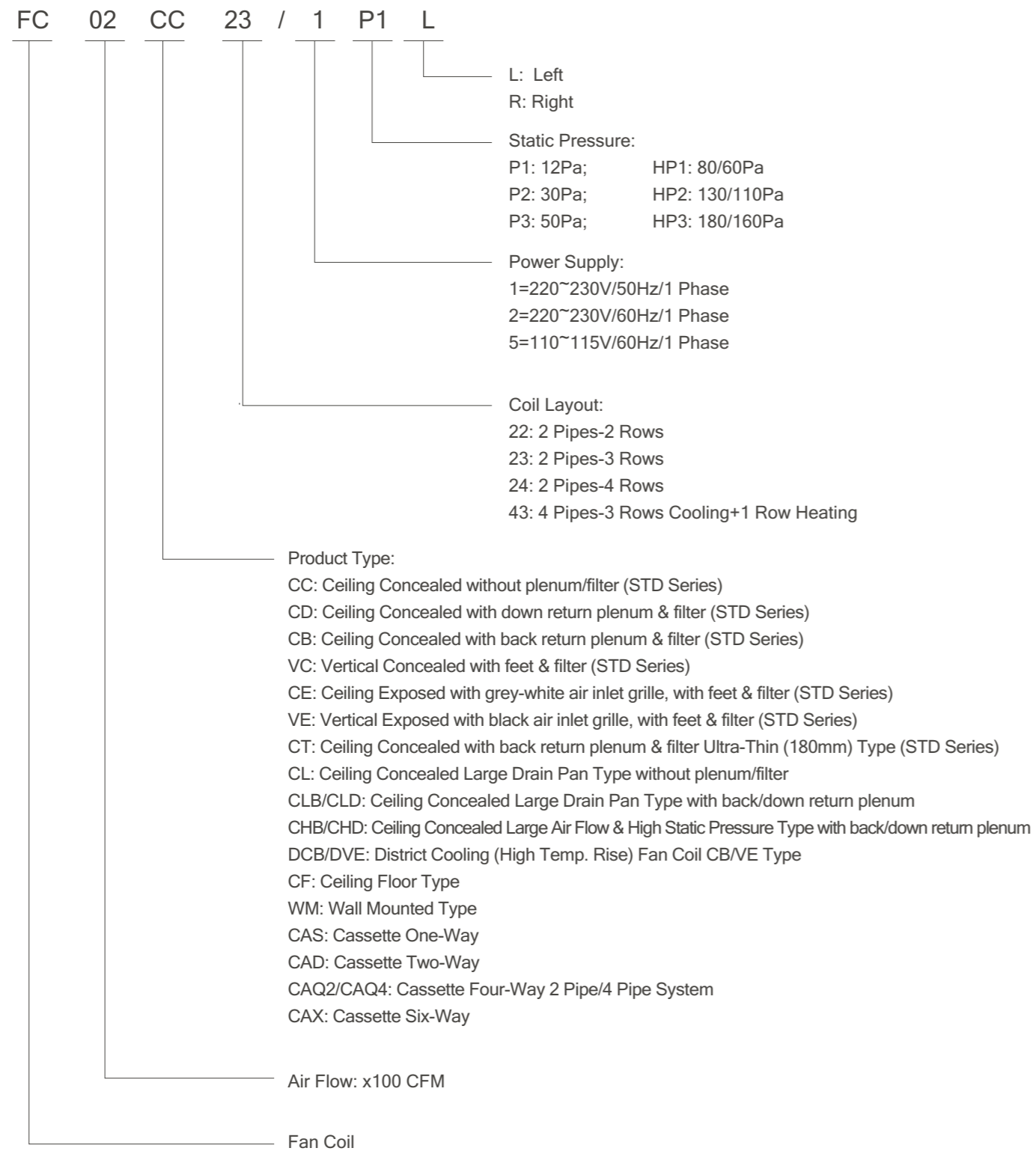
OAK fan coil units have become the effective standard solution in many and various industrial segments for comfortable economical air conditioning.

### **Profitability**

OAK fan coils units operate with low maintenance and follow-up costs.



## HOW TO READ THE MODELS



## Standard Fan Coil



Ceiling Concealed

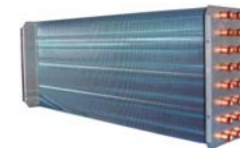


Vertical Concealed

Air Flow: 400~2450m<sup>3</sup>/h  
200~1400CFM  
Cooling Capacity: 1.45~13.08kW

### Features and benefits

- High energy efficiency with seamless copper tube mechanically expanded to aluminum fins.



- High reliability and fire resistance by galvanized steel fan blade and shell.



- V shape drain pan design guarantees the highest drainage efficiency.

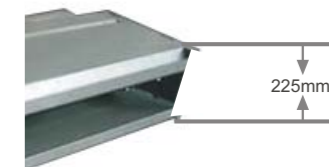


- Optional static pressure 12-30/30-50Pa meets wide application requirements.

- Easy installation by configuration of ABS fan blade and shell.



- Space saving thanks to compact design and unit body thickness is only 225mm.



- Quiet operation thanks to DIDW forward curve centrifugal fan and NSK axis.



## Standard Fan Coil



Ceiling Exposed

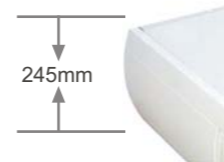


Vertical Exposed

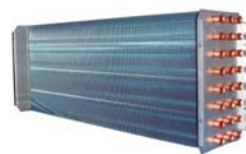
Air Flow: 400~2450m<sup>3</sup>/h  
200~1400CFM  
Cooling Capacity: 1.45~13.08kW

### Features and benefits

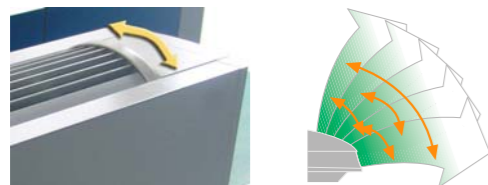
- Stylish and elegant design for high quality individual application.
- Space saving with unit body thickness only 245mm.



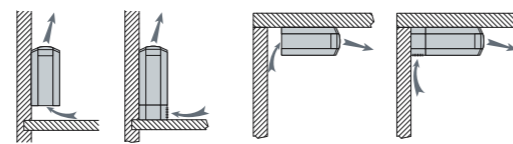
- High energy efficiency with seamless copper tube mechanically expanded to aluminum fins.



- More comfortable with wide air diffusion thanks to rotary air outlet grill max. reaches 75°.

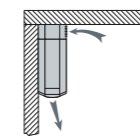


- All-in-one design guarantees great flexibility of installation both in ceiling suspended and vertical placed.



Cooling/Heating

Cooling/Heating



Heating

- Quiet operation as low as 28 dB(A) ensures exquisite working and living environment.

## Specification

### 2 Pipe 2 Rows

Performance		Model	FC02	FC03	FC04	FC05	FC06	FC08	FC10	FC12	FC14
Air Flow	H	CFM	235	347	441	541	635	876	1029	1212	1441
		m <sup>3</sup> /h	400	590	750	920	1080	1490	1750	2060	2450
	M	CFM	182	265	329	406	476	659	776	906	1082
		m <sup>3</sup> /h	310	450	560	690	810	1120	1320	1540	1840
	L	CFM	118	176	218	271	318	441	512	606	724
		m <sup>3</sup> /h	200	300	370	460	540	750	870	1030	1230
Total Cooling Capacity	H	kW	1.97	2.67	3.45	4.23	5.02	7.12	8.46	9.83	11.11
	M	kW	1.65	2.24	2.95	3.59	4.26	6.07	7.21	8.37	9.50
	L	kW	1.45	1.99	2.57	3.17	3.76	5.35	6.36	7.39	8.36
Sensible Cooling Capacity	H	kW	1.39	1.84	2.41	2.97	3.59	5.00	6.75	6.94	7.96
	M	kW	1.20	1.58	2.05	2.55	3.07	4.25	5.89	6.11	6.94
	L	kW	0.94	1.19	1.56	2.05	2.49	3.30	44.77	4.65	5.42
Heating Capacity	H	kW	2.91	3.71	5.18	6.35	7.54	10.70	12.73	14.75	16.72
	M	kW	2.48	3.16	4.42	5.27	6.39	9.11	10.85	12.58	14.24
	L	kW	2.18	2.80	3.88	4.76	5.64	8.06	9.57	11.08	12.58
Power Input	12Pa-H	W	34	46	55	70	87	117	140	181	223
	30Pa-H	W	42	56	70	81	101	149	165	202	241
	50Pa-H	W	46	65	82	89	109	163	201	228	286
Max Current	A	0.21	0.30	0.37	0.40	0.50	0.74	0.91	1.04	1.30	
Electrical Heater (Opt.)	kW	-	-	-	-	-	-	-	-	-	
Static Pressure	Pa	12Pa/30Pa/50Pa									
Noise Level	12Pa-H	dB(A)	35	37	39	41	43	44	46	48	50
	30Pa-H	dB(A)	38	40	42	44	45	46	48	50	52
	50Pa-H	dB(A)	40	42	44	45	47	48	50	52	54
Water Flow	kg/h	350	470	600	740	870	1230	1460	1700	1910	
	l/s	0.097	0.131	0.167	0.206	0.242	0.342	0.406	0.472	0.531	
Water Resistance	kPa	10	18	19	23	24	23	36	21	35	
Fan Type		Forward curve centrifugal fan									
Motor	Type	Four speed asynchronous fan motor									
	Insulation	Class B									
	Power Supply	220~230V/1Ph/50 or 60Hz									
Coil	Type	Seamless copper mechanically expanded into aluminum fins									
	Rows	2									
	Max Working Pressure	1.6 MPa									
Inlet/Outlet Water Pipe	3/4" FPT										
Condensate Water Pipe	Φ 20										
Unit Dimension W/D/H	Ceiling Concealed	645*450*225	795*450*225	875*450*225	945*450*225	1095*450*225	1395*450*225	1545*450*225	1695*450*225	1995*450*225	
	Ceiling Exposed	850*505*245	1000*505*245	1080*505*245	1150*505*245	1300*505*245	1600*505*245	1750*505*245	1900*505*245	2200*505*245	
	Vertical Concealed	745*225*584	895*225*584	975*225*584	1045*225*584	1195*225*584	1495*225*584	1645*225*584	1795*225*584	2095*225*584	
Packing Dimension W/D/H	Vertical Exposed	850*245*639	1000*245*639	1080*245*639	1150*245*639	1300*245*639	1600*245*639	1750*245*639	1900*245*639	2200*245*639	
	Ceiling Concealed	665*470*235	815*470*235	895*470*235	965*470*235	1115*470*235	1415*470*235	1565*470*235	1710*470*235	2015*470*235	
	Ceiling Exposed	870*520*260	1020*520*260	1100*520*260	1170*520*260	1320*520*260	1620*520*260	1770*520*260	1920*520*260	2220*520*260	
Unit Weight kg	Vertical Concealed	870*240*600	910*240*600	990*240*600	1060*240*600	1210*240*600	1510*240*600	1660*240*600	1810*240*600	2110*240*600	
	Vertical Exposed	870*260*660	1020*260*660	1100*260*660	1170*260*660	1320*260*660	1610*260*660	1770*260*660	1910*260*660	2210*260*660	
	Ceiling Concealed	14	18	19	20	22	34	36	38	39	
Gross Weight kg	Ceiling Exposed	23	28	29	30	34	48	51	53	55	
	Vertical Concealed	12	15	16	17	18	29	30	32	33	
	Vertical Exposed	24	29	30	31	35	49	52	54	56	
Gross Weight kg	Ceiling Concealed	15	19	20	21	23	35	37	39	40	
	Ceiling Exposed	24	29	30	31	35	49	52	54	56	
	Vertical Concealed	13	16	17	18	19	30	31	33	34	
Vertical Exposed	25	30	31	32	36	50	53	55	57		

1. Nominal Testing condition:  
Cooling: entering air temp 27° C DB/19.5° C WB; entering water temp 7° C, leaving water temp 12° C;  
Heating: entering air temp 21° C; entering water temp 60° C, the same water flow as in cooling;  
2. Sound pressure level are measured in acoustic room, position of the measure point is 1m in the front and 1m below the vertical center line of the unit;  
3. Static pressure is measured without filter and air outlet.



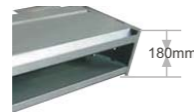
## Ultra-Thin Type



Air Flow: 340~1020m<sup>3</sup>/h  
200~600CFM  
Cooling Capacity: 1.46~5.66kW

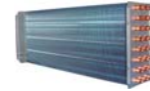
### Features and benefits

- Great space saving and installation flexibility as unit height is only 180mm.



- Fresh air by high efficiency synthetic fiber washable filter.
- High reliability and fire resistance by galvanized steel fan blade and shell.
- V shape drain pan design guarantees the highest drainage efficiency.
- Optional static pressure 12-30/30-50Pa meets wide application requirement.

- High energy efficiency with seamless copper tube mechanically expanded to aluminum fins.



- Easy installation by configuration of ABS fan blade and shell.
- Quiet operation thanks to DIDW forward curve centrifugal fan and NSK axis.



### Specification

Specification		Model	FC02	FC03	FC04	FC05	FC06
Air Flow	H	CFM	200	300	400	500	600
		m <sup>3</sup> /h	340	510	680	850	1020
	M	CFM	160	230	320	370	470
		m <sup>3</sup> /h	280	400	550	640	800
	L	CFM	120	170	230	280	350
		m <sup>3</sup> /h	200	300	400	480	600
Total Cooling Capacity	H	kW	2.05	2.90	4.18	4.70	5.66
	M	kW	1.75	2.46	3.55	3.98	4.80
	L	kW	1.46	2.03	2.90	3.30	3.90
Sensible Cooling Capacity	H	kW	1.35	1.94	2.83	3.11	3.83
	M	kW	1.07	1.53	2.22	2.45	3.01
	L	kW	0.86	1.17	1.71	1.90	2.30
Heating Capacity	H	kW	3.10	4.35	6.02	7.05	8.35
	M	kW	2.60	3.69	5.10	5.99	7.10
	L	kW	2.10	3.05	4.20	4.90	5.80
Power Input	12Pa-H	W	42	56	76	90	115
	30Pa-H	W	50	66	87	104	147
Max Current	A		0.25	0.34	0.43	0.51	0.73
Electrical Heater (Opt.)	kW		1.0/1.5/2.0	1.5/2.0/2.5	2.0/3.0/3.5	2.0/3.0/4.0	2.0/3.5/4.5
Static Pressure	Pa		12Pa/30Pa				
Noise Level	12Pa-H	dB(A)	35	37	40	42	44
	30Pa-H	dB(A)	38	40	43	45	46
Water Flow		kg/h	370	500	730	820	980
		l/s	0.103	0.139	0.207	0.228	0.272
Water Resistance	kPa		7	15	32	38	46
Fan Type			Forward curve centrifugal fan				
Motor	Type		Four speed asynchronous fan motor				
	Insulation		Class E				
	Power Supply		220~230V/1Ph/50 or 60Hz				
Coil	Type		Seamless copper mechanically expanded into aluminum fins				
	Rows		2				
	Max Working Pressure		1.6 MPa				
Inlet/Outlet Water Pipe			3/4" FPT				
Condensate Water Pipe			3/4" MPT				
Net Dimension	mm(W/D/H)		728*450*180	878*450*180	1028*450*180	1178*450*180	1378*450*180
Packing Dimension	mm(W/D/H)		750*470*200	900*470*200	1050*470*200	1200*470*200	1400*470*200
Net Weight	kg		16	18	21	23	25
Gross Weight	kg		17	19	22	24	26

1. Nominal Testing condition:  
Cooling: entering air temp 27° C DB/19.5° C WB; entering water temp 7° C, leaving water temp 12° C;  
Heating: entering air temp 21° C; entering water temp 60° C, the same water flow as in cooling;  
2. Sound pressure level are measured in acoustic room, position of the measure point is 1m in the front and 1m below the vertical center line of the unit;  
3. Static pressure is measured without filter and air outlet.

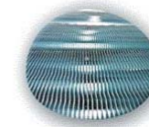
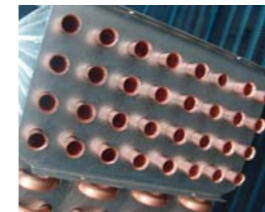
## Large Drain Pan Type



Air Flow: 340~2400m<sup>3</sup>/h  
200~1400CFM  
Cooling Capacity: 1.27~12.89kW

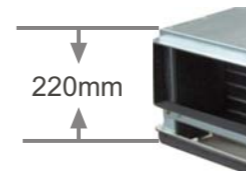
### Features and benefits

- High energy efficiency with seamless copper tube mechanically expanded to open-window type aluminum fins.

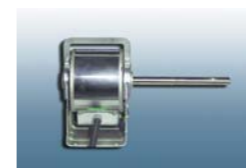


- High reliability and fire resistance by galvanized steel fan blade and shell(optional).

- Space saving thanks to compact design and unit body thickness is only 220mm.



- Quiet operation thanks to DIDW forward curve centrifugal fan and NSK axis.



- Optional static pressure 12/30/50Pa meets wide application request.

- Much better fresh air by high efficiency synthetic fiber washable filter.

- Easy installation, easy maintenance by configuration of ABS fan blade and shell.



- Easy cleaning and maintenance by draw-out coil design.



- V shape extended drain pan design greatly increases the drainage efficiency.





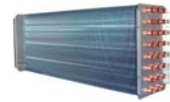
## Large Air Flow and High Static Pressure Type



Air Flow: 803~6260m<sup>3</sup>/h  
472~3682CFM  
Cooling Capacity: 5.06~39.70kW

### Features and benefits

- High energy efficiency with seamless copper tube mechanically expanded to aluminum fins.
- Lower noise by hot galvanized sheet steel with fine acoustic insulation layer.
- V shape extended drain pan design greatly increases the drainage efficiency.
- Fresh air by high efficiency synthetic fiber washable filter or aluminum filter.
- Optional static pressure 60~180 Pa covers most of the application requirements.
- High reliability and fire resistance by galvanized steel fan blade and shell.



### Specification

#### 2 Pipe 3 Rows

Specification	Model	FC06	FC08	FC10	FC12	FC15	FC18	FC25	FC31	FC36	
Air Flow	H	CFM	629	841	1053	1262	1579	1894	2526	3159	3682
		m <sup>3</sup> /h	1070	1430	1790	2145	2685	3220	4295	5370	6260
	M	CFM	541	732	895	1085	1374	1648	2173	2685	3167
		m <sup>3</sup> /h	920	1244	1522	1845	2336	2801	3694	4565	5384
	L	CFM	472	622	790	959	1185	1421	1920	2338	2688
		m <sup>3</sup> /h	803	1058	1343	1630	2014	2415	3264	3974	4570
Total Cooling Capacity	H	kW	6.10	7.50	9.00	11.50	13.50	15.80	20.80	27.00	31.40
	M	kW	5.49	6.68	8.19	10.58	11.88	13.75	18.30	24.03	27.32
	L	kW	5.06	6.30	7.65	9.43	11.21	13.11	17.47	22.68	26.38
Sensible Cooling Capacity	H	kW	4.60	5.60	6.50	8.30	10.00	11.80	15.30	19.60	23.10
	M	kW	4.00	4.82	5.66	7.22	8.40	9.91	13.01	16.66	19.17
	L	kW	3.50	4.31	5.07	6.31	7.60	9.09	11.63	15.09	17.79
Heating Capacity	H	kW	9.30	11.50	14.10	18.10	20.90	25.00	32.10	42.20	49.20
	M	kW	8.09	10.12	12.55	15.75	18.81	22.25	29.21	38.40	43.30
	L	kW	7.72	9.66	11.84	15.20	17.35	21.00	27.29	34.60	40.84
Power Input	80Pa-H	W	180	280	340	390	470	710	800	980	1170
	130Pa-H	W	240	370	450	520	620	830	950	1130	1350
	180Pa-H	W	320	500	600	680	800	950	1240	1470	1760
Max Current	A	1.5	2.3	2.7	3.1	3.6	4.3	5.6	6.7	8.0	
Static Pressure	Pa	80Pa/130Pa/180Pa									
Noise Level	80Pa-H	dB(A)	48	49	50	52	55	56	60	61	62
	130Pa-H	dB(A)	51	52	53	55	58	59	62	64	65
	180Pa-H	dB(A)	53	55	56	58	60	62	65	67	67
Water Flow	kg/h	1000	1200	1500	1900	2200	2600	3400	4500	5200	
	l/s	0.278	0.333	0.417	0.528	0.611	0.722	0.944	1.250	1.444	
Water Resistance	kPa	8.7	11.7	16.8	25.4	35	43.5	25.4	39.5	48.7	
Fan Type		Forward curve centrifugal fan									
Motor	Type	Three speed asynchronous fan motor									
	Insulation	Class B									
	Power Supply	220~230V/1Ph/50 or 60Hz									
Coil	Type	Seamless copper mechanically expanded into aluminum fins									
	Rows	3									
	Max. Working Pressure	1.6 MPa									
Inlet/Outlet Water Pipe		1" MPT			3/4" MPT			1 1/4" MPT			
Condensate Water Pipe		3/4" MPT									
Net Dimension	mm(W/D/H)	1180*835*365	1180*835*365	1280*835*365	1480*835*365	1580*835*365	1680*835*365	1780*935*465	2080*935*465	2280*935*465	
Packing Dimension	mm(W/D/H)	1260*885*415	1260*885*415	1360*885*415	1560*885*415	1660*885*415	1760*885*415	1860*985*415	2160*985*415	2360*985*415	
Net Weight	kg	54	54	57	65	68	71	91	103	111	
Gross Weight	kg	56	56	60	68	71	74	94	107	115	

### Specification

#### 2 Pipe 4 Rows

Specification	Model	FC06	FC08	FC10	FC12	FC15	FC18	FC25	FC31	FC36	
Air Flow	H	CFM	629	841	1053	1262	1579	1894	2526	3159	3682
		m <sup>3</sup> /h	1070	1430	1790	2145	2685	3220	4295	5370	6260
	M	CFM	541	732	895	1085	1374	1648	2173	2685	3167
		m <sup>3</sup> /h	920	1244	1522	1845	2336	2801	3694	4565	5384
	L	CFM	472	622	790	959	1185	1421	1920	2338	2688
		m <sup>3</sup> /h	803	1058	1343	1630	2014	2415	3264	3974	4570
Total Cooling Capacity	H	kW	7.60	10.10	11.80	14.20	16.40	18.60	26.30	35.00	39.70
	M	kW	6.84	8.99	10.74	13.06	14.43	16.18	23.14	31.15	34.54
	L	kW	6.31	8.48	10.03	11.64	13.61	15.44	22.09	29.40	33.35
Sensible Cooling Capacity	H	kW	5.80	7.50	8.70	10.60	12.50	14.10	19.30	25.60	29.80
	M	kW	5.05	6.45	7.57	9.22	10.50	11.84	16.41	21.76	24.73
	L	kW	4.41	5.78	6.79	8.06	9.50	10.86	14.67	19.71	22.95
Heating Capacity	H	kW	12.00	15.50	18.30	22.40	25.00	28.50	41.30	55.40	61.60
	M	kW	10.44	13.64	16.29	19.49	22.50	25.37	37.58	50.41	54.21
	L	kW	9.96	13.02	15.37	18.82	20.75	23.94	35.11	45.43	51.13
Power Input	60Pa-H	W	210	320	400	480	550	750	850	1090	1280
	110Pa-H	W	260	410	500	570	640	850	960	1230	1460
	160Pa-H	W	350	550	650	770	860	970	1260	1560	1840
Max Current	A	1.6	2.5	3.0	3.5	3.9	4.4	5.7	7.1	8.4	
Static Pressure	Pa	60Pa/110Pa/160Pa									
Noise Level	60Pa-H	dB(A)	48	50	51	53	56	57	60	62	64
	110Pa-H	dB(A)	50	52	53	55	58	60	63	65	66
	160Pa-H	dB(A)	53	56	56	58	61	63	66	68	70
Water Flow	kg/h	1300	1700	2000	2500	2800	3200	4500	6000	6800	
Water Resistance	kPa	12.3	16.2	23.5	32.9	42.1	48.7	30.2	42.3	53.4	
Fan Type		Forward curve centrifugal fan									
Motor	Type	Three speed asynchronous fan motor									
	Insulation	Class B									
	Power Supply	220~230V/1Ph/50 or 60Hz									
Coil	Type	Seamless copper mechanically expanded into aluminum fins									
	Rows	4									
	Max. Working Pressure	1.6 MPa									
Inlet/Outlet Water Pipe		1" MPT			3/4" MPT			1 1/4" MPT			
Condensate Water Pipe		3/4" MPT									
Net Dimension	mm(W/D/H)	1180*835*365	1180*835*365	1280*835*365	1480*835*365	1580*835*365	1680*835*365	1780*935*465	2080*935*465	2280*935*465	
Packing Dimension	mm(W/D/H)	1260*885*415	1260*885*415	1360*885*415	1560*885*415	1660*885*415	1760*885*415	1860*985*415	2160*985*415	2360*985*415	
Net Weight	kg	56	56	59	67	70	73	94	108	116	
Gross Weight	kg	58	58	62	70	73	76	97	112	120	

- Nominal Testing condition:  
Cooling: entering air temp 27° C DB/19.5° C WB; entering water temp 7° C, leaving water temp 12° C;  
Heating: entering air temp 21° C; entering water temp 60° C, the same water flow as in cooling;
- Sound pressure level are measured in acoustic room, position of the measure point is 1m in the front and 1m below the vertical center line of the unit;
- Static pressure is measured without filter and air outlet.

## Wall Mounted Type



Air Flow: 218~1360m<sup>3</sup>/h  
128~800CFM  
Cooling Capacity: 1.15~7.20kW

### Features and benefits

- The modern elegant appealing design of wall mounted fan coil units easily match with indoor decoration.
- High efficiency by utilizing of inner-grooved cooper tube with hydrophilic aluminum fins.
- Large LED display with lambency light provides sufficient operation information but without negative influence of indoor environment.



- Newly designed cross flow fan with three speed control gurantees more quiet operation and comforatability.



- Much more fresh air by utilizing of high efficiency and easy cleanable filter.
- Refined operation experience by multiple intelligent control functions: 5-position fan blade, timer, sleep, on/off, auto-restart etc.

### Specification

Specification		Model	FC02	FC03	FC04	FC05	FC06	FC08	
Air Flow	H	CFM	200	300	400	500	600	800	
		m <sup>3</sup> /h	340	510	680	850	1020	1360	
		M	CFM	160	240	320	400	480	640
	M	m <sup>3</sup> /h	272	408	544	680	816	1088	
		L	CFM	128	192	256	320	384	512
		m <sup>3</sup> /h	218	326	435	544	653	870	
Total Cooling Capacity	H	kW	1.80	2.70	3.60	4.50	5.40	7.20	
	M	kW	1.44	2.16	2.88	3.60	4.32	5.76	
	L	kW	1.15	1.73	2.30	2.88	3.46	4.61	
Sensible Cooling Capacity	H	kW	1.40	2.11	2.81	3.51	4.21	5.62	
	M	kW	1.12	1.68	2.25	2.81	3.37	4.49	
	L	kW	0.90	1.35	1.80	2.25	2.70	3.59	
Heating Capacity	H	kW	2.70	4.50	5.40	6.75	8.10	10.80	
	M	kW	2.16	3.60	4.32	5.40	6.48	8.64	
	L	kW	1.73	2.88	3.46	4.32	5.18	6.91	
Power Input	W	25	30	39	45	80	90		
Running Current	A	0.12	0.14	0.18	0.21	0.36	0.43		
Noise Level	dB(A)-H/M/L	37/35/32	39/36/34	41/38/35	43/40/37	44/41/38	45/42/39		
Water Flow	kg/h	500	520	620	860	980	1220		
	l/s	0.139	0.144	0.172	0.239	0.272	0.339		
Water Resistance	kPa	12	14	16	18	22	25		
Fan Type		Cross Flow Fan Blower							
Motor	Type	Cross Flow Fan Motor							
	Insulation	Class B							
	Power Supply	220~230V/1Ph/50 or 60Hz							
	Power Consumption (W)	10	12	15.6	18	32	36		
Coil	Type	Seamless copper mechanically expanded into aluminum fins							
	Rows	2							
	Max. Working Pressure	1.4 MPa							
	Inlet/Outlet Water Pipe	1/2" MPT							
Condensate Water Pipe		Φ 25							
Net Dimension	mm(W/D/H)	795*285*215	795*285*215	990*330*230	990*330*230	1090*330*255	1090*330*255		
Packing Dimension	mm(W/D/H)	905*370*283	905*370*283	1065*375*275	1065*375*275	1145*375*315	1145*375*315		
Net Weight	kg	11.2	11.2	14.5	14.5	16.5	16.5		
Gross Weight	kg	14.8	14.8	18.5	18.5	19	19		

1. Nominal Testing condition:  
Cooling: entering air temp 27° C DB/19.5° C WB; entering water temp 7° C, leaving water temp 12° C;  
Heating: entering air temp 21° C; entering water temp 60° C, the same water flow as in cooling;  
2. Sound pressure level are measured in acoustic room, position of the measure point is 1m in the front and 1m below the vertical center line of the unit;  
3. Static pressure is measured without filter and air outlet.

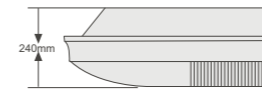
## Ceiling Floor Type



Air Flow: 510~2380m<sup>3</sup>/h  
300~1400CFM  
Cooling Capacity: 1.73~12.6kW

### Features and benefits

- Stylish and streamline design for high quality individual application.

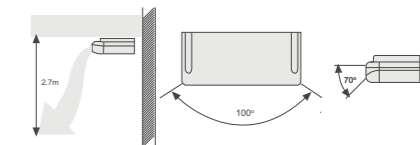


- High energy efficiency with seamless copper tube mechanically expanded to aluminum fins.

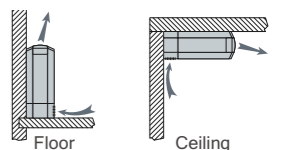
- More fresh air by high efficiency synthetic fiber washable filter.



- More comfortable by wider air diffusion (Up-Down 70o) and automatically flapping. Quiet operation thanks to DIDW forward curve centrifugal fan and NSK axis.



- All-in-one design guarantees great flexibility of installation both in ceiling suspended and vertical placed.



### Specification

Specification		Model	FC03	FC04	FC05	FC06	FC08	FC10	FC12	FC14	
Air Flow	H	CFM	300	400	500	600	800	1000	1200	1400	
		m <sup>3</sup> /h	510	680	850	1020	1360	1700	2040	2380	
		M	CFM	262	347	435	522	697	871	1044	1218
	M	m <sup>3</sup> /h	445	590	740	888	1,185	1,480	1,775	2,070	
		L	CFM	226	303	379	456	606	756	909	1059
		m <sup>3</sup> /h	385	515	645	775	1030	1285	1545	1800	
Total Cooling Capacity	H	kW	2.70	3.60	4.50	5.40	7.20	9.00	10.80	12.60	
	M	kW	2.16	2.88	3.60	4.32	5.76	7.20	8.64	10.08	
	L	kW	1.73	2.30	2.88	3.46	4.61	5.76	6.91	8.06	
Sensible Cooling Capacity	H	kW	2.03	2.70	3.38	4.05	5.40	6.75	8.10	9.45	
	M	kW	1.62	2.16	2.70	3.24	4.32	5.40	6.48	7.56	
	L	kW	1.30	1.73	2.16	2.59	3.46	4.32	5.18	6.05	
Heating Capacity	H	kW	4.05	5.40	6.75	8.10	10.80	13.50	16.20	18.90	
	M	kW	3.24	4.32	5.40	6.48	8.64	10.80	12.96	15.12	
	L	kW	2.59	3.46	4.32	5.18	6.91	8.64	10.37	12.10	
Power Input	W	45	50	80	110	120	150	170	188		
Running Current	A	0.19	0.23	0.36	0.49	0.54	0.68	0.82	0.9		
Noise Level	dB(A)-H/M/L	39/37/36	41/38/35	43/40/38	45/42/39	46/43/40	48/45/42	50/47/45	51/48/45		
Water Flow	kg/h	520	620	860	980	1220	1580	1920	2100		
	l/s	0.144	0.172	0.239	0.272	0.339	0.439	0.533	0.583		
Water Resistance	kPa	14	16	18	22	25	39	44	44		
Fan Type		Centrifugal Fan									
Motor	Type	Split Permanent Capacitor Motor									
	Insulation	Class B									
	Power Supply	220~230V/1Ph/50 or 60Hz									
	Power Consumption (W)	18	20	32	44	48	60	68	75		
Coil	Type	Seamless copper mechanically expanded into aluminum fins									
	Rows	2									
	Max. Working Pressure	1.4 MPa									
Inlet/Outlet Water Pipe		3/4" FPT									
Condensate Water Pipe		Φ 25									
Net Dimension	mm(W/D/H)	905*673*243			1288*673*243			1672*673*243			
Packing Dimension	mm(W/D/H)	995*765*311			1375*765*311			1760*765*311			
Net Weight	kg	25			40			45			
Gross Weight	kg	30			45			50			

1. Nominal Testing condition:  
Cooling: entering air temp 27° C DB/19.5° C WB; entering water temp 7° C, leaving water temp 12° C;  
Heating: entering air temp 21° C; entering water temp 60° C, the same water flow as in cooling;  
2. Sound pressure level are measured in acoustic room, position of the measure point is 1m in the front and 1m below the vertical center line of the unit;  
3. Static pressure is measured without filter and air outlet.

## 1-Way Cassette Type



Air Flow: 340~800m<sup>3</sup>/h  
200~471CFM  
Cooling Capacity: 1.1~4.0kW

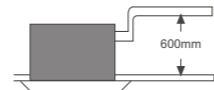
## 4-Way Cassette Type



Air Flow: 340~2380m<sup>3</sup>/h  
200~1400CFM  
Cooling Capacity: 1.1~12.6kW

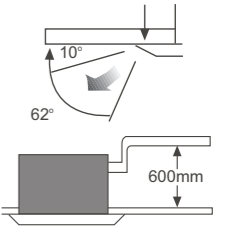
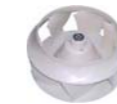
### Features and benefits

- Stylish and elegant design in harmony with top interior decoration requirement.
- Much more fresh air by utilizing high efficiency synthetic fiber washable filter.
- High efficiency drainage system with water lifting pump up to 600mm.
- Maximum utilization of room space with recessed ceiling installation.
- Newly designed pressure-stable centrifugal fan ensures the lowest operation noise.
- Compact design as unit height only 235mm, easy for installation.



### Features and benefits

- Maximum utilization of room space with recessed ceiling installation.
- 4-way air blowing and wide angle flapping guarantees average energy diffusion.
- High efficiency drainage system with water lifting pump up to 600mm.
- Stylish and elegant design in harmony with top interior decoration requirement.
- Much more fresh air by utilizing high efficiency synthetic fiber washable filter.



### Specification

Specification		Model	FC02	FC03	FC04	FC05
Air Flow	H	CFM	200	300	400	471
		m <sup>3</sup> /h	340	510	680	800
	M	CFM	159	235	306	382
		m <sup>3</sup> /h	270	400	520	650
	L	CFM	112	176	235	294
		m <sup>3</sup> /h	190	300	400	500
Total Cooling Capacity	H	kW	1.90	2.70	3.60	4.00
	M	kW	1.50	2.10	2.80	3.30
	L	kW	1.00	1.60	2.10	2.60
Sensible Cooling Capacity	H	kW	1.30	1.90	2.50	2.80
	M	kW	1.10	1.60	2.10	2.30
	L	kW	0.80	1.30	1.70	1.80
Heating Capacity	H	kW	2.70	4.10	5.40	6.40
	M	kW	2.20	3.20	4.10	5.20
	L	kW	1.50	2.40	3.20	4.00
Power Input	W	45	54	62	70	
Running Current	A	0.2	0.24	0.28	0.31	
Noise Level	dB(A)-H/M/L	39/36/30	39/36/30	40/37/31	42/39/37	
Water Flow	kg/h	330	480	625	690	
	l/s	0.092	0.133	0.174	0.192	
Water Resistance	kPa	10	15	18	20	
Fan Type		Centrifugal Fan				
Motor	Type	Split Permanent Capacitor Motor				
	Insulation	Class B				
	Power Supply	220~230V/1Ph/50 or 60Hz				
	Power Consumption (W)	20	20	25	35	
Coil	Type	Seamless copper mechanically expanded into aluminum fins				
	Rows	2		3		
	Max. Working Pressure	1.4 MPa				
Inlet/Outlet Water Pipe		3/4" FPT				
Condensate Water Pipe		Φ 25				
Net Dimension	Unit	850*400*235			811*811*290	
	Panel	1045*465*30			950*950*30	
Packing Dimension	Unit	1095*535*310			1015*1015*340	
	Panel	1095*535*310			1015*1015*340	
Net Weight	Unit	23			38	
	Panel	23			5	
Gross Weight	Unit	25.5			38	
	Panel	25.5			5.6	

### Specification

Specification		Model	FC02	FC03	FC04	FC05	FC06	FC08	FC10	FC12	FC14
Air Flow	H	CFM	200	300	400	500	600	800	1000	1200	1400
		m <sup>3</sup> /h	340	510	680	850	1020	1360	1700	2040	2380
	M	CFM	165	229	306	376	465	606	759	882	1059
		m <sup>3</sup> /h	280	390	520	640	790	1030	1290	1500	1800
	L	CFM	106	153	206	253	306	406	506	607	706
		m <sup>3</sup> /h	180	260	350	430	520	690	860	1032	1200
Total Cooling Capacity	H	kW	2.00	2.70	3.70	5.00	5.60	7.10	9.10	11.00	12.60
	M	kW	1.50	2.50	3.40	3.90	4.70	6.30	8.00	9.60	11.10
	L	kW	1.10	2.10	2.80	3.20	3.70	4.20	5.40	8.00	8.70
Sensible Cooling Capacity	H	kW	1.60	2.10	2.70	3.60	4.30	5.10	6.70	8.10	9.50
	M	kW	1.10	1.90	2.60	2.90	3.50	4.70	6.00	7.20	8.30
	L	kW	0.90	1.60	2.20	2.60	3.00	3.40	4.30	6.40	7.00
Heating Capacity	H	kW	2.80	4.20	5.60	7.00	8.40	11.20	13.90	16.70	19.50
	M	kW	2.24	3.12	4.16	5.12	6.32	8.24	10.32	12.00	14.40
	L	kW	1.44	2.08	2.80	3.44	4.16	5.52	6.88	8.26	9.60
Power Input	W	37	52	62	76	96	132	152	189	220	
Running Current	A	0.16	0.23	0.27	0.34	0.43	0.59	0.67	0.84	0.98	
Noise Level	dB(A)-H/M/L	38/35/30	39/36/32	42/38/35	44/41/37	45/42/39	47/44/41	49/46/42	51/47/53	53/48/44	
Water Flow	kg/h	345	520	640	860	970	1260	1710	1920	2210	
Water Resistance	l/s	0.096	0.144	0.178	0.239	0.269	0.350	0.475	0.533	0.614	
Water Resistance	kPa	7	9	11	16	18	19	17	19	22	
Fan Type		Centrifugal Fan									
Motor	Type	Split Permanent Capacitor Motor									
	Insulation	Class B									
	Power Supply	220~230V/1Ph/50 or 60Hz									
	Power Consumption (W)	28	43	53	67	97	123	143	180	210	
Coil	Type	Seamless copper mechanically expanded into aluminum fins									
	Rows	2									
	Max. Working Pressure	1.4 MPa									
Inlet/Outlet Water Pipe		3/4" FPT									
Condensate Water Pipe		Φ 25									
Net Dimension	Unit	580*580*250			710*710*290			811*811*290			
	Panel	680*680*30			800*800*30			950*950*30			
Packing Dimension	Unit	730*730*310			865*865*340			1015*1015*340			
	Panel	730*730*310			865*865*340			1015*1015*340			
Net Weight	Unit	22.5	22.5	23.5	28	29	29	36	38	38	
	Panel	2.5									
Gross Weight	Unit	23.8	23.8	23.8	29.6	30.6	30.6	38	40	40	
	Panel	3.5									

1. Nominal Testing condition:

Cooling: entering air temp 27° C DB/19.5° C WB; entering water temp 7° C, leaving water temp 12° C;

Heating: entering air temp 21° C; entering water temp 60° C, the same water flow as in cooling;

2. Sound pressure level are measured in acoustic room, position of the measure point is 1.5m below the vertical center line of the unit

1. Nominal Testing condition:

Cooling: entering air temp 27° C DB/19.5° C WB; entering water temp 7° C, leaving water temp 12° C;

Heating: entering air temp 21° C; entering water temp 60° C, the same water flow as in cooling;

2. Sound pressure level are measured in acoustic room, position of the measure point is 1.5m below the vertical center line of the unit

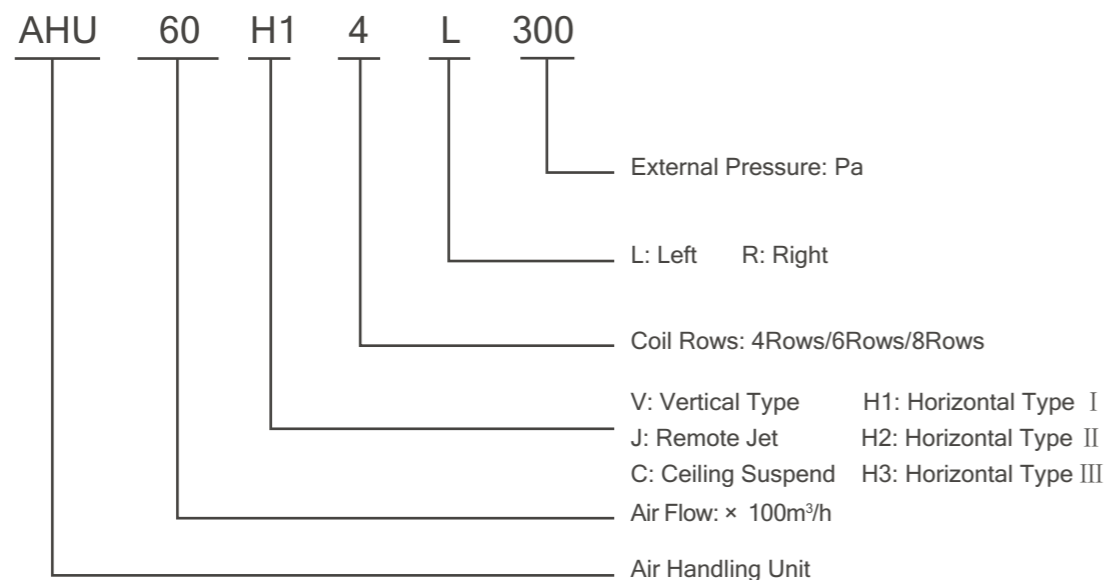




# Air Handling Unit

OAK Air Handling Unit is a new generation product designed for high quality requirement, including 112 models with air volume from 1000 to 60000m<sup>3</sup>/h, cooling capacity from 5kW to 966kW, and external static pressure up to 600Pa. There are totally 6 different standard types corresponding with different installation modes, ceiling suspend type, remote jet type, vertical type, horizontal type I, II, III. The units are widely used in shopping malls, hotels, gyms and industrial applications, etc.

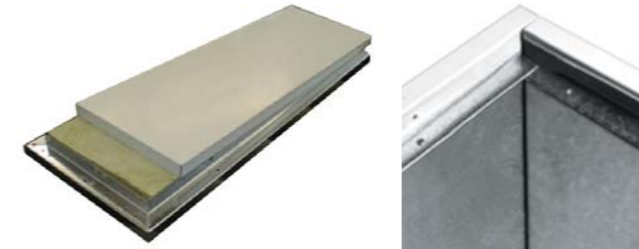
## How To Read The Models



## Features and benefits

### The 3D Casing Construction

The construction serve thermal protection, reducing machine noise, absorbing vibration and avoiding air leakage. 3D compound aluminum alloy framed structure with modular sizes of panel and pending-post are easily assembled and reassembled. The construction and material used are environment friendly, clean and safe. Panel are double skin construction and sandwiched with superior polyurethane.



### High efficiency heat exchanger

All coils are optimized and designed with professional CAD software so that they can meet all kinds of topical condition and can be designed and made in accordance with special application of different customers. Heat exchanger uses unique pipe layout, and can improve 10%-30% of heat exchange efficiency than that of heat exchanger with same area and traditional pipe layout .



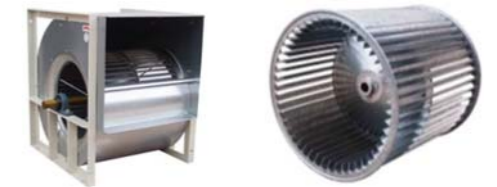
### More reliable motor

The motor is air-cooled hermetic 3- phase asynchronous type or external rotor type, which has higher reliable and longer lifetime. Optimized design makes the motor more efficient and energy saving.



### Low noise and long lifetime fan

The fan is forward or backwheel curved centrifugal type with double inlets and is statically and dynamically balanced after assembly to ensure quiet and high efficiency. It's equipped with NSK or SKF taper sheath bearings which average life is more than 75,000 hrs under designed conditions to reduce vibration caused by normal eccentricity-lock bearings. The work life of the main components such as blade, axis and scroll case is more than 15 years.



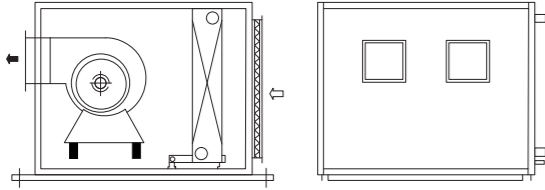
### High efficiency air filter

There are plate filter and bag filter two types, both of them have firm structure, long working life. The filter is installed on standard aluminum rails with removable access doors above or beside it, which make it easily checked, changed and cleaned. Filter with higher efficiency and differential pressure gauge are also available.



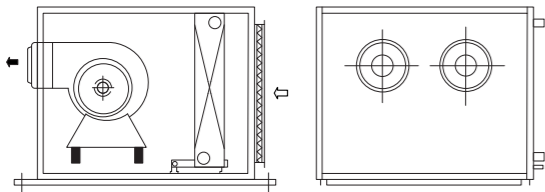
## AHU Sketch

### Ceiling Suspend Type



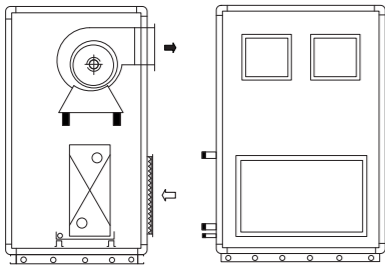
- Coarse Filter
- Cooling/Heating Coil
- Supply Fan

### Remote Jet Type



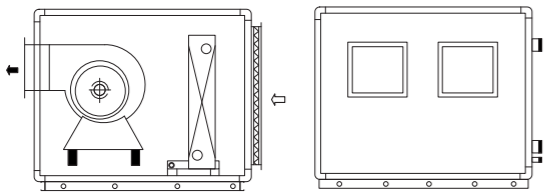
- Coarse Filter
- Cooling/Heating Coil
- Supply Fan

### Vertical type



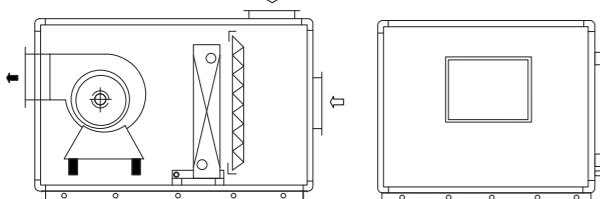
- Coarse Filter
  - Cooling/Heating Coil
  - Supply Fan
- \* Optional: Side air discharge/Top air discharge

### Horizontal type I



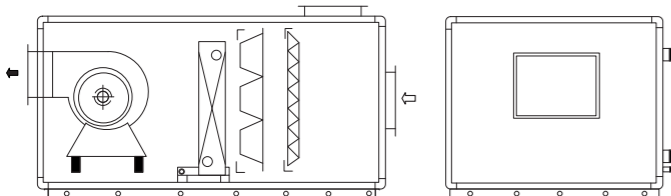
- Coarse Filter
- Cooling/Heating Coil
- Supply Fan

### Horizontal type II



- Fresh/Recycling Air Mixing With Coarse Filter
- Cooling/Heating Coil
- Supply Fan

### Horizontal type III



- Fresh/Recycling Air Mixing With Coarse Filter
- Medium Filter
- Cooling/Heating Coil
- Supply Fan

## Ceiling Suspend Type



Air Flow: 1000~16000m<sup>3</sup>/h  
590~9410CFM  
Cooling Capacity: 5~225kW  
Single Skin

## Specification

Model		AHU10C	AHU15C	AHU20C	AHU25C	AHU30C	AHU40C	AHU50C	AHU60C	AHU70C	AHU80C	AHU100C	AHU120C	AHU140C	AHU160C	
Air Flow	m <sup>3</sup> /h	1000	1500	2000	2500	3000	4000	5000	6000	7000	8000	10000	12000	14000	16000	
	CFM	590	880	1180	1470	1760	2350	2940	3530	4120	4710	5880	7060	8240	9410	
External Static Pressure (Pa)	4 Rows	I	/	/	180	180	180	180	310	310	310	310	310	310	310	
	II	150	150	230	230	230	410	410	410	410	410	410	410	410	410	
6 Rows	I	/	/	130	130	130	130	260	260	260	260	260	260	260	260	
	II	100	100	180	180	180	360	360	360	360	360	360	360	360	360	
Motor Power (kW)	I	/	/	0.37	0.37	0.55	0.65	1.37	1.65	1.65	1.8	1.37*2	1.65*2	1.65*2	1.8*2	
	II	0.18	0.22	0.37	0.45	0.55	0.65	1.37	1.65	1.8	1.8	1.37*2	1.65*2	1.65*2	1.8*2	
Noise Level	dB(A)	51	52	54	55	55	55	57	60	64	66	68	69	69	70	
Recycling Air	4 Rows	Cooling Capacity (kW)	5	8	10	14	17	23	25	32	37	42	54	70	88	95
		Heating Capacity (kW)	8	11	15	21	26	35	38	48	55	63	81	105	123	132
		Water Flow (m <sup>3</sup> /h)	0.9	1.4	1.9	2.6	3.1	4.3	5	6.5	6.9	8.2	9.9	11.8	14.1	15.4
	6 Rows	Water Resistance (kPa)	5	15	20	35	30	35	10	20	20	30	15	15	15	15
		Cooling Capacity (kW)	7	11	14	18	22	30	35	43	53	60	72	92	112	120
		Heating Capacity (kW)	11	16	21	28	33	45	53	65	79	90	108	138	168	180
Fresh Air	4 Rows	Water Flow (m <sup>3</sup> /h)	1.2	1.8	2.4	3	3.8	5.2	6	7.4	9	10.3	12.4	15.8	19.3	20.6
		Water Resistance (kPa)	10	20	42	10	10	15	25	30	40	48	30	35	40	40
		Cooling Capacity (kW)	12	18	23	28	34	47	58	70	83	95	116	141	178	191
6 Rows	Heating Capacity (kW)	15	22	29	35	42	55	72	85	101	115	140	170	214	228	
	Water Flow (m <sup>3</sup> /h)	2.2	2.9	4.3	5.7	6.9	9.3	11.8	14.6	17.1	19.7	23.5	28.1	32.9	37.7	
	Water Resistance (kPa)	10	10	10	20	20	25	40	49	49	50	49	49	49	49	
6 Rows	Cooling Capacity (kW)	13	20	27	34	41	55	68	82	96	110	139	168	210	225	
	Heating Capacity (kW)	17	25	33	41	49	66	83	99	116	132	169	202	253	270	
	Water Flow (m <sup>3</sup> /h)	2	3	4.6	6	7	9.5	11.8	14	17	18.9	23.9	28.8	36.1	38.7	
Water Resistance (kPa)	42	15	25	48	40	48	30	45	49	49	40	45	45	49		
Water Inlet/Outlet Pipe Connection		DN32	DN40			DN50			DN65							
Condensing Water Pipe Connection		DN32														
Power Supply		380V-3Ph-50/60Hz														
Net Dimension (mm)	W	780	915	915	915	915	915	915	915	915	915	915	915	915	1050	
	D	600	783	783	857	935	1240	1393	1698	1698	1698	2003	2308	2460	3090	
	H	500	500	647	647	647	647	647	647	730	803	803	803	803	803	
Packing Dimension (mm)	W	1080	1215	1215	1215	1215	1215	1215	1215	1215	1215	1215	1215	1215	1350	
	D	800	983	983	1057	1135	1440	1593	1898	1898	1898	2203	2508	2660	3290	
	H	650	650	797	797	797	797	797	797	880	953	953	953	953	953	
Weight (kg)	4 Rows	Net Weight	73	80	100	109	125	140	170	205	250	290	380	430	530	600
		Gross Weight	123	130	150	159	175	190	220	255	300	340	430	480	580	650
	6 Rows	Net Weight	80	90	110	121	138	155	190	290	300	310	400	460	580	650
		Gross Weight	130	140	160	171	188	205	240	340	350	360	450	510	630	700

Nominal testing condition:

Recycling air:

Cooling: entering air temp 27°C DB/19.5°C WB; entering water temp 7°C, leaving water temp 12°C.

Heating: entering air temp 21°C DB; entering water temp 60°C.

Fresh air:

Cooling: entering air temp 35°C DB/28°C WB; entering water temp 7°C, leaving water temp 12°C.

Heating: entering air temp 7°C DB; entering water temp 60°C.

## Remote Jet Type



Air Flow: 1000~12000m<sup>3</sup>/h  
590~7060CFM  
Cooling Capacity: 5~207kW  
Single Skin

## Vertical Type



Air Flow: 2000~35000m<sup>3</sup>/h  
1180~20590CFM  
Cooling Capacity: 10~573kW  
Double Skin

### Specification

Model		AHU10J	AHU15J	AHU20J	AHU25J	AHU30J	AHU40J	AHU50J	AHU60J	AHU70J	AHU80J	AHU100J	AHU120J		
Air Flow	m <sup>3</sup> /h	1000	1500	2000	2500	3000	4000	5000	6000	7000	8000	10000	12000		
	CFM	590	880	1180	1470	1760	2350	2940	3530	4120	4710	5880	7060		
Air Supplying Distance	4 Rows m	15	15	20	20	25	25	30	30	30	35	35	35		
	6 Rows m	12	12	17	17	22	22	27	27	27	32	32	32		
Motor Power	kW	0.2	0.25	0.3	0.45	0.55	0.9	1.5	0.5*2	0.55*2	0.65*2	1.5*2	1.8*2		
Noise Level	dB(A)	51	52	54	55	55	55	56	57	57	58	60	60		
Recycling Air	4 Rows	Cooling Capacity (kW)	5	8	11	15	18	25	29	35	40	48	58	69	
		Heating Capacity (kW)	8	12	17	23	27	38	44	53	60	72	87	104	
		Water Flow (m <sup>3</sup> /h)	0.9	1.4	1.9	2.6	3.1	4.3	5	6.5	6.9	8.2	9.9	11.8	
	6 Rows	Water Resistance (kPa)	5	15	20	35	30	35	10	20	20	30	15	15	
		Cooling Capacity (kW)	7	12	16	18	22	30	38	47	55	64	79	97	
		Heating Capacity (kW)	11	18	24	27	33	45	57	71	83	96	119	146	
	Fresh Air	4 Rows	Water Flow (m <sup>3</sup> /h)	1.2	2.1	2.7	3.1	3.8	5.1	6.5	8.1	9.4	11	13.5	16.6
			Water Resistance (kPa)	10	20	42	10	10	15	25	30	40	48	30	35
			Cooling Capacity (kW)	13	17	25	33	40	54	69	85	100	115	137	160
		6 Rows	Heating Capacity (kW)	20	26	38	50	60	81	104	128	150	173	206	240
			Water Flow (m <sup>3</sup> /h)	2.2	2.9	4.3	5.7	6.9	9.3	11.8	14.6	17.1	19.7	23.5	28.1
			Water Resistance (kPa)	10	10	10	20	20	25	40	49	49	50	49	49
6 Rows	Cooling Capacity (kW)	17	24	35	44	52	69	86	104	122	141	173	207		
	Heating Capacity (kW)	26	36	53	66	78	104	129	156	183	212	260	311		
	Water Flow (m <sup>3</sup> /h)	2.9	4.1	6	7.5	8.9	11.8	14.7	17.8	20.9	24.2	29.7	35.5		
Water Inlet/Outlet Pipe Connection		DN32	DN40				DN50				DN65				
	Condensing Water Pipe Connection	DN32													
Power Supply		380V-3Ph-50Hz/60Hz													
Net Dimension (mm)	W	980	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115		
	D	600	783	783	857	935	1240	1393	1698	1698	1698	2003	2308		
	H	489	489	617	617	649	649	649	649	745	809	809	809		
Packing Dimension (mm)	W	1280	1415	1415	1415	1415	1415	1415	1415	1415	1415	1415	1415		
	D	800	983	983	1057	1135	1440	1593	1898	1898	1898	2203	2508		
Weight (kg)	4 Rows	H	639	639	767	767	799	799	799	895	959	959	959		
		Net Weight	78	84	100	109	125	140	170	205	250	290	380	430	
	6 Rows	Gross Weight	128	134	150	159	175	190	220	255	300	340	430	480	
		Net Weight	85	96	110	121	138	155	190	290	300	310	400	460	
6 Rows	Gross Weight	135	146	160	171	188	205	240	340	350	360	450	510		

Nominal testing condition:  
 Recycling air:  
 Cooling: entering air temp 27°C DB/19.5°C WB; entering water temp 7°C, leaving water temp 12°C.  
 Heating: entering air temp 21°C DB; entering water temp 60°C.  
 Fresh air:  
 Cooling: entering air temp 35°C DB/28°C WB; entering water temp 7°C, leaving water temp 12°C.  
 Heating: entering air temp 7°C DB; entering water temp 60°C.

### Specification

Model		AHU20V	AHU30V	AHU40V	AHU50V	AHU60V	AHU80V	AHU100V	AHU120V		
Air Flow	m <sup>3</sup> /h	2000	3000	4000	5000	6000	8000	10000	12000		
	CFM	1180	1760	2350	2940	3530	4710	5880	7060		
External Static Pressure (Pa)	4 Rows	I	170	170	170	300	300	300	300		
		II	220	220	220	400	400	400	400		
	6 Rows	I	120	120	120	250	250	250	250		
		II	170	170	170	350	350	350	350		
	8 Rows	I	70	70	70	200	200	200	200		
		II	120	120	120	300	300	300	300		
Motor Power (kW)	I	0.37	0.55	0.65	1.37	1.65	1.8	1.37*2	1.65*2		
	II	0.37	0.55	0.65	1.2	1.5	2.2	1.2*2	1.5082		
Noise Level dB(A)	I	57	57	59	61	61	63	65	67		
	II	58	58	60	62	62	64	66	68		
Recycling Air	4 Rows	Cooling Capacity (kW)	10	17	23	25	32	42	54	70	
		Heating Capacity (kW)	15	26	35	38	48	63	81	105	
		Water Flow (m <sup>3</sup> /h)	1.7	2.9	4	4.3	5.5	7.2	9.3	12	
	6 Rows	Water Resistance (kPa)	13	13	12	12	15	11	12	16	
		Cooling Capacity (kW)	14	22	30	35	43	60	72	92	
		Heating Capacity (kW)	21	33	45	53	65	90	108	138	
	8 Rows	Water Flow (m <sup>3</sup> /h)	2.4	3.8	5.2	6	7.4	10.3	12.4	15.8	
		Water Resistance (kPa)	17	19	16	17	18	20	22	27	
		Cooling Capacity (kW)	17	26	36	42	52	72	86	110	
	Fresh Air	4 Rows	Heating Capacity (kW)	25	40	54	64	78	108	130	166
			Water Flow (m <sup>3</sup> /h)	2.9	4.5	6.2	7.2	8.9	12.4	14.8	18.9
			Water Resistance (kPa)	12	21	24	26	28	30	32	35
6 Rows		Cooling Capacity (kW)	23	34	47	58	70	95	116	141	
		Heating Capacity (kW)	29	42	55	72	85	115	140	170	
		Water Flow (m <sup>3</sup> /h)	4	5.9	8	10	12	16.3	19.9	24.2	
8 Rows	Water Resistance (kPa)	21	21	18	18	24	15	18	26		
	Cooling Capacity (kW)	27	41	55	68	82	110	139	168		
	Heating Capacity (kW)	33	49	66	83	99	132	169	202		
6 Rows	Water Flow (m <sup>3</sup> /h)	4.6	7	9.5	11.8	14	18.9	23.9	28.8		
	Water Resistance (kPa)	20	23	19	20	22	24	26	32		
	Cooling Capacity (kW)	32	49	66	85	100	134	165	195		
8 Rows	Heating Capacity (kW)	36	55	72	90	107	145	179	217		
	Water Flow (m <sup>3</sup> /h)	5.5	8.4	11.3	14.7	17.2	23	28.4	33.5		
	Water Resistance (kPa)	19	34	38	42	45	48	51	56		
Water Inlet/Outlet Pipe Connection		DN40			DN50			DN65			
Condensing Water Pipe Connection		DN32									
Power Supply		380V-3Ph-50Hz/60Hz									
Net Dimension (mm)	W	650	650	650	650	650	860	860	960		
	D	670	860	860	1010	1150	1470	1760	1760		
	H	1380	1380	1630	1630	1630	1630	1630	1830		
Packing Dimension (mm)	W	950	950	950	950	950	1160	1160	1260		
	D	870	1060	1060	1210	1350	1670	1960	1960		
Weight (kg)	4 Rows	H	1530	1530	1780	1780	1780	1780	1980		
		Net Weight	140	170	210	270	312	450	550	610	
	6 Rows	Gross Weight	190	220	260	320	362	500	600	660	
		Net Weight	175	205	248	307	367	535	608	670	
	8 Rows	Gross Weight	225	255	298	357	417	585	658	720	
		Net Weight	225	225	298	367	427	595	678	740	
	8 Rows	Gross Weight	275	275	348	417	477	645	728	790	







**Specification**

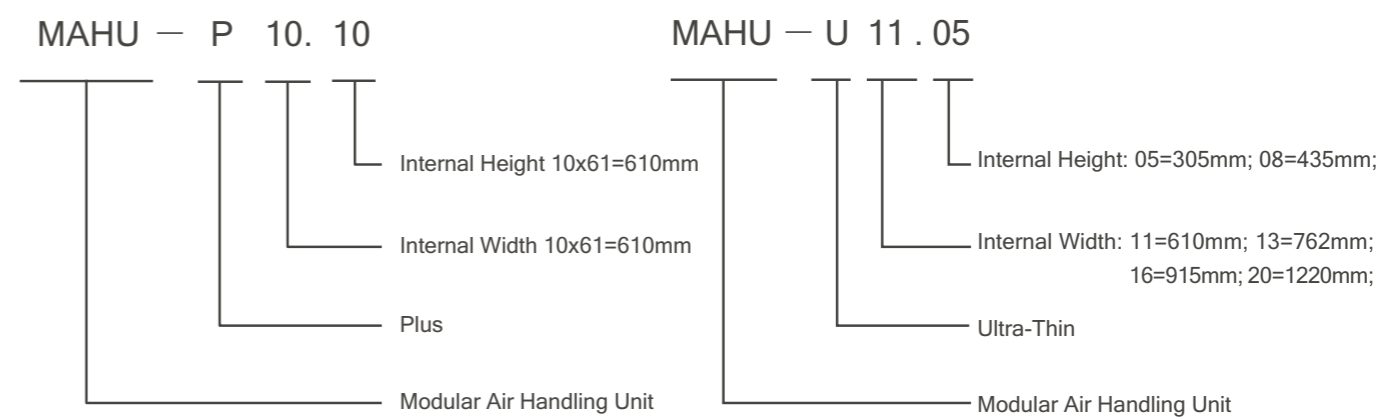
Model		AHU180H3	AHU200H3	AHU220H3	AHU250H3	AHU300H3	AHU350H3	AHU400H3	AHU450H3	AHU500H3	AHU600H3	
Air Flow	m <sup>3</sup> /h	18000	20000	22000	25000	30000	35000	40000	45000	50000	60000	
	CFM	10590	11760	12940	14710	17650	20590	23530	26470	29410	35290	
External Static Pressure (Pa)	4 Rows	I	280	280	330	330	380	380	380	430	430	
		II	480	480	530	530	530	530	530	530	530	
	6 Rows	I	230	230	280	280	330	330	330	380	380	
		II	430	430	480	480	480	480	480	480	480	
8 Rows	I	170	170	220	220	270	270	270	320	320		
	II	370	370	420	420	420	420	420	420	420		
Motor Power (kW)	I	5.5	5.5	5.5	7.5	11	11	15	15	18.5	22	
	II	7.5	7.5	11	11	11	15	15	18.5	22	22	
Noise Level dB(A)	I	69	71	71	71	74	74	77	77	77	79	
	II	70	72	72	72	75	75	78	78	78	80	
Recycling Air	4 Rows	Cooling Capacity (kW)	106	120	134	155	190	228	276	322	364	417
		Heating Capacity (kW)	159	180	201	233	285	342	414	483	546	626
		Water Flow (m <sup>3</sup> /h)	18.2	20.6	23	26.7	32.7	39.2	47.5	55.4	62.6	71.7
		Water Resistance (kPa)	20	15	15	15	25	30	45	30	40	45
	6 Rows	Cooling Capacity (kW)	132	155	176	198	230	276	320	351	420	468
		Heating Capacity (kW)	198	233	264	297	345	414	480	527	630	702
		Water Flow (m <sup>3</sup> /h)	22.7	26.7	30.3	34	39.6	47.5	55	60.4	72.2	80.5
		Water Resistance (kPa)	25	28	35	36	40	32	35	28	38	40
	8 Rows	Cooling Capacity (kW)	158	174	192	222	264	306	360	396	456	540
		Heating Capacity (kW)	238	264	288	336	396	456	576	612	696	840
		Water Flow (m <sup>3</sup> /h)	27.2	29.9	33	38.2	45.4	52.6	61.9	68.1	78.4	92.9
		Water Resistance (kPa)	45	51	56	40	50	57	32	38	41	53
Fresh Air	4 Rows	Cooling Capacity (kW)	204	222	250	278	337	394	453	508	566	682
		Heating Capacity (kW)	246	268	301	336	406	475	546	612	670	819
		Water Flow (m <sup>3</sup> /h)	35.1	38.1	43	47.9	57.9	67.8	78	87.4	97.3	117.2
		Water Resistance (kPa)	32	24	24	24	45	52	70	52	58	70
	6 Rows	Cooling Capacity (kW)	245	273	301	343	413	473	537	608	673	807
		Heating Capacity (kW)	294	329	362	413	495	562	649	747	820	975
		Water Flow (m <sup>3</sup> /h)	42.1	47	51.7	58.9	71.1	81.3	92.3	104.5	115.6	138.7
		Water Resistance (kPa)	30	34	42	43	48	38	42	34	46	48
	8 Rows	Cooling Capacity (kW)	293	324	354	403	487	573	638	720	801	966
		Heating Capacity (kW)	322	356	389	443	536	630	702	792	881	1063
		Water Flow (m <sup>3</sup> /h)	50.3	55.7	60.8	69.3	83.8	98.5	109.7	123.8	137.7	166.2
		Water Resistance (kPa)	72	82	90	64	80	91	53	61	66	85
Water Inlet/Outlet Pipe Connection		DN65						DN80				
Condensing Water Pipe Connection		DN32										
Power Supply		380V-3Ph-50Hz/60Hz										
Net Dimension (mm)	W	3427	3427	3427	3580	3732	3885	3923	4228	4228	4380	
	D	1597	1597	1597	1902	1942	2247	2247	2552	2552	2857	
	H	1387	1692	1692	1692	2037	2037	2342	2342	2647	2647	
Packing Dimension (mm)	W	3727	3727	3727	3880	4032	4185	4223	4528	4528	4680	
	D	1797	1797	1797	2102	2142	2447	2447	2752	2752	3057	
	H	1537	1842	1842	1842	2187	2187	2492	2492	2797	2797	
Weight (kg)	4 Rows	Net Weight	747	803	828	855	1416	1502	1758	1925	2059	2640
		Gross Weight	800	850	870	900	1470	1550	1800	1970	2110	2700
	6 Rows	Net Weight	812	860	878	904	1483	1576	1837	2031	2167	2640
		Gross Weight	860	910	930	950	1530	1620	1890	2080	2210	2690
	8 Rows	Net Weight	894	917	937	954	1550	1651	1916	2136	2275	2767
		Gross Weight	940	960	990	1000	1600	1700	1970	2190	2320	2830

Nominal testing condition:  
 Recycling air:  
 Cooling: entering air temp 27°C DB/19.5°C WB; entering water temp 7°C, leaving water temp 12°C.  
 Heating: entering air temp 21°C DB; entering water temp 60°C.  
 Fresh air:  
 Cooling: entering air temp 35°C DB/28°C WB; entering water temp 7°C, leaving water temp 12°C.  
 Heating: entering air temp 7°C DB; entering water temp 60°C.



OAK Central Air Conditioning is continuously working on the enhancement of its quality and technology. One result of these ongoing efforts-OAK Modular Air Handling Unit comes into being. It has air flow from 1500 to 165000 m<sup>3</sup>/h and cooling capacity from 20 to 1585kW which is widely used not only in commercial industrial area but also in medical application area. OAK Modular Air Handling Unit is impressive not only for its optimal modular dimensions - but also for its simple installation. No matter for new facilities or upgrading of existing plants: It offers two product ranges, matched to the individual application. Choose between MAHU-P and MAHU-U according to the space you have for installation. No matter in living or industrial areas, even in hygienical applications - OAK in its past 18 years development has supplied plenty of modular air handling systems according to the needs of its customers.

**HOW TO READ THE MODELS**

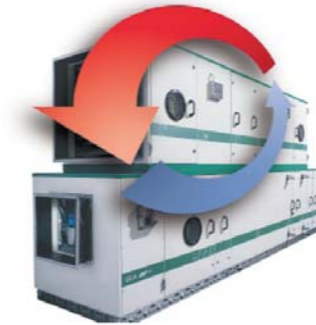


## MAHU Plus



1500~165000m<sup>3</sup>/h

## Energy Recovery System



High energy recovery efficiency  
Optimal indoor air quality

### Features and benefits

#### Wide application and flexible combination

Indoor or Outdoor units-vertical or horizontal installation-vertically stacked, in tandem, or adjacent to each other: almost any configuration is available with OAK Modular Air Handling Unit. The great diversity in the installation sizes enables the user to reach the best installation option for each particular space need-thereby offering optimal solution for owners and operators, planners, and builders of plants.

#### Wide application



**Indoor application**  
Basic unified unit



**Outdoor application**  
These units are used in the outdoor application and are designed according to RAIN standards; this unit has been developed with higher resistance to water corrosion even in extreme conditions. All of these because they have the anti-rain device, the unique cover plate structure and internal airproof.

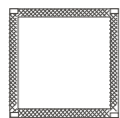


#### Hygienic application

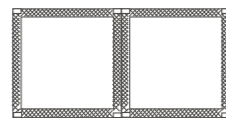
- Medical purification air handling units for Hospital application;
- Clean & hygienically; Match standard DIN 1946-T4;
- Anti-corrosion processing, longer equipment life;
- Patented insulated plate-No cold bridges;
- Internal framed insulation and airproof system-Minimize leakage;
- Particularly designed frameless panel with smooth interfaces;
- Stainless steel plate, easy cleaning and maintenance.



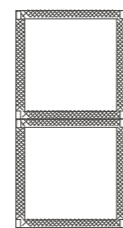
#### Flexible combination



Standard

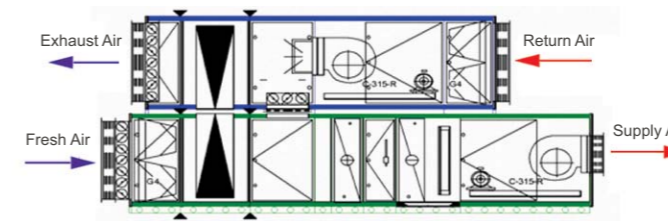
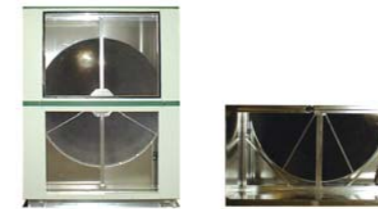


Side By Side



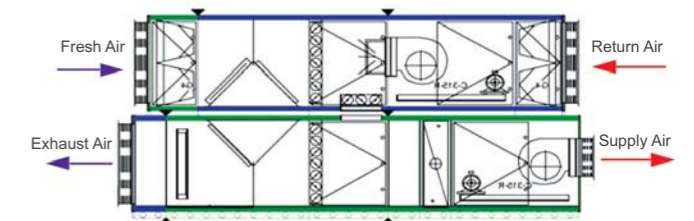
Double Deck

#### Rotary Wheel (ECOROT)



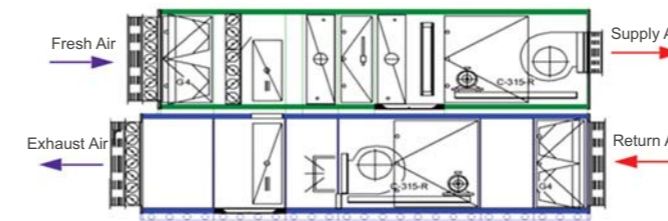
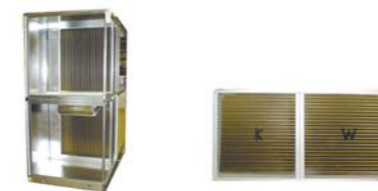
Energy Recovery Rate 70~80%

#### Plate Exchanger (ECOPLAT)



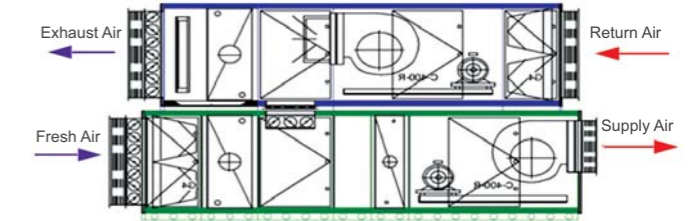
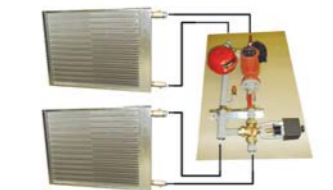
Energy Recovery Rate 60~70%;

#### Hot Tube (ECOSTAT)



Energy Recovery Rate 40~50%

#### Circulating Coil (ECOFLOW)

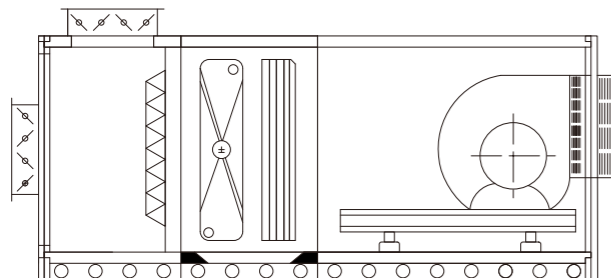


Energy Recovery rate 80%



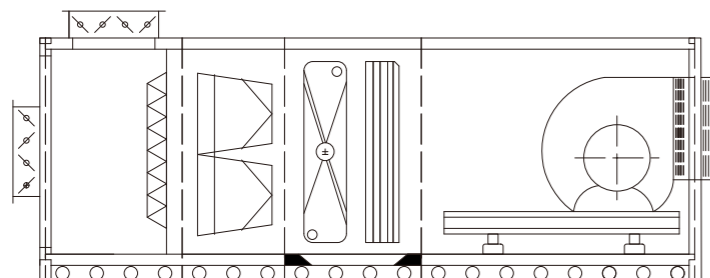
## Typical Combination

### Combination a



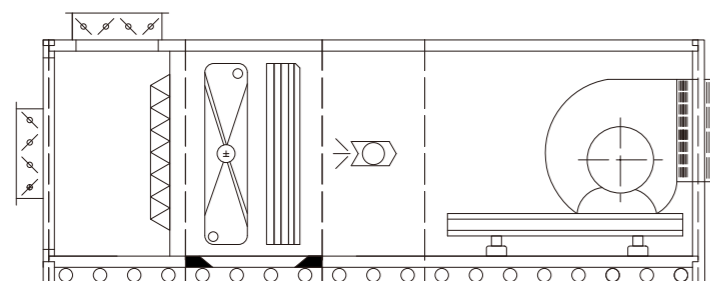
- Fresh Air And Recycling Air Mixing Section With Coarse Filter
- Cooling/Heating Coil Section With Drip Eliminator
- Fan Section

### Combination b



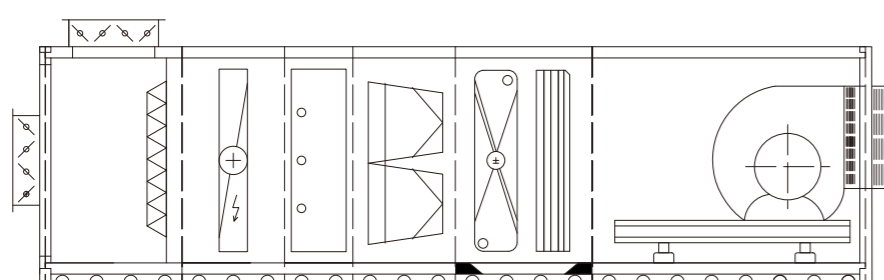
- Fresh Air And Recycling Air Mixing Section With Coarse Filter
- Medium Filter Section
- Cooling/Heating Coil Section With Drip Eliminator
- Fan Section

### Combination c



- Fresh Air And Recycling Air Mixing Section With Coarse Filter
- Cooling/Heating Coil Section With Drip Eliminator
- Humidifying Section
- Fan Section

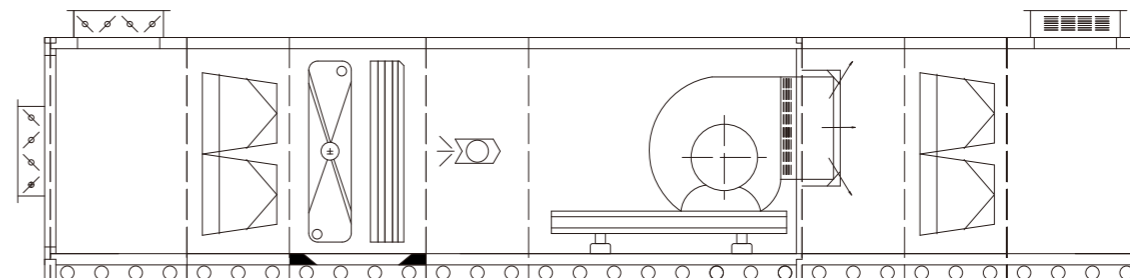
### Combination d



- Fresh Air And Recycling Air Mixing Section With Coarse Filter
- Electric Heating Section
- Empty Section
- Medium Filter Section
- Cooling/Heating Coil Section With Drip Eliminator
- Fan Section

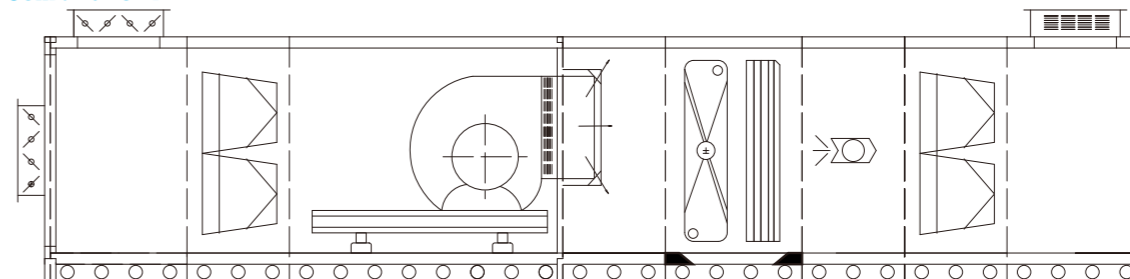
## Typical Combination

### Combination e



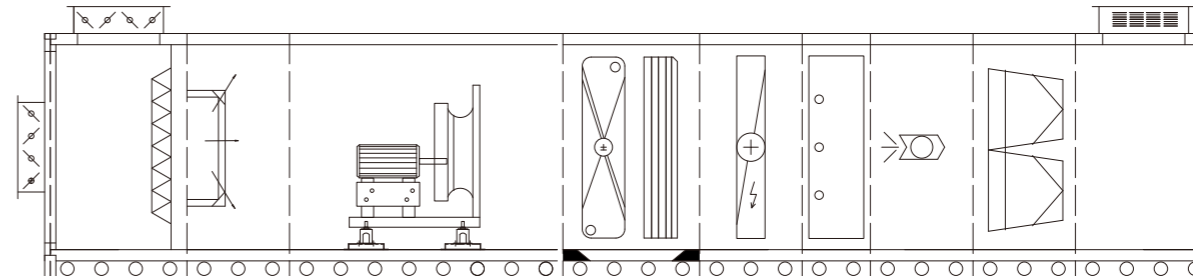
- Fresh Air And Recycling Air Mixing Section
- Bag Filter Section (G4)
- Cooling/Heating Coil Section With Drip Eliminator
- Humidifying Section
- Fan Section
- Diffusing Section
- Medium Filter Section (F7)
- Air Outlet Section (Top Air Discharge)

### Combination f



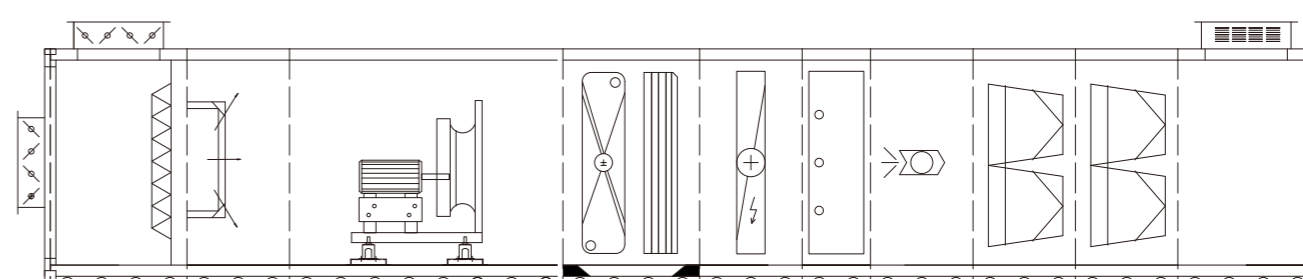
- Fresh Air And Recycling Air Mixing Section
- Bag Filter Section (G4)
- Fan Section
- Diffusing Section
- Cooling/Heating Coil Section With Drip Eliminator
- Humidifying Section
- Medium Filter Section (F7)
- Air Outlet Section (Top Air Discharge)

### Combination g



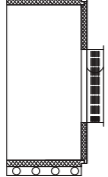
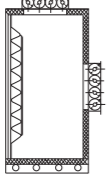
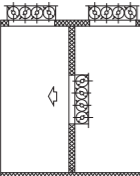
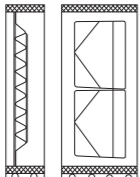
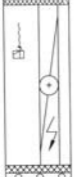
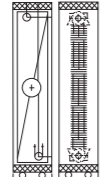
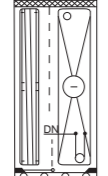
- Fresh Air And Recycling Air Mixing Section With Coarse Filter
- Diffusing Section
- Fan Section
- Cooling/Heating Coil Section With Drip Eliminator
- Electric Heating Section
- Humidifying Section
- Medium Filter Section (F7)
- Air Outlet Section (Top Air Discharge)

### Combination h

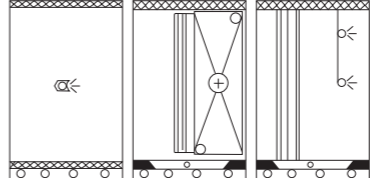
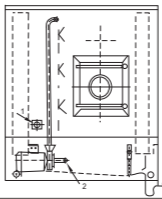
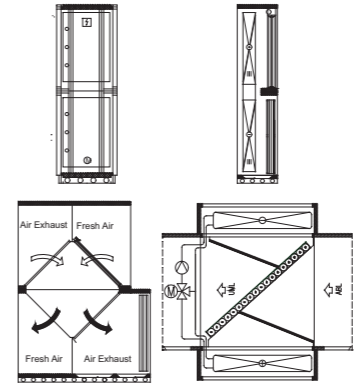
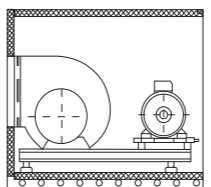
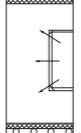




- Fresh Air And Recycling Air Mixing Section With Coarse Filter
- Diffusing Section
- Fan Section
- Cooling/Heating Coil Section With Drip Eliminator
- Electric Heating Section
- Humidifying Section
- Medium Filter Section (F7)
- HEPA Section (H11)
- Air Outlet Section (Top Air Discharge)

**Sections**

No.	Name	Symbol	Notes
1	Air Inlet /Outlet Section		Options: Damper Damper+flexible connection Flexible connection
2	Fresh/ Recycling Air Mixing Section		Fresh air and recycling air mixing section with coarse filter
3	Fresh / Recycling /Exhaust Air Mixing Section		Fresh air, recycling air and exhaust air mixing section
4	Filtering Section		Two Options: Plate Filter or Bag Filter Plate Filtering Grade: G4 Bag Filtering Grade: G4;F5;F7; and F9
5	Electric Heating Section		Electric heater section
6	Heating Section		Two options: Cu-Al heater or welded steel coil fin heater  Cu-Al heater : Hot water heating Working pressure ≤ 1.6 Mpa Working temperature ≤ 85°C  Welded steel coil fin heater: Steam heating Working pressure ≤ 1.6 Mpa Working temperature ≤ 230°C
7	Cooling/ Heating Coil Section		Cooling/heating coil section Cu-Al heat exchanger: hot water heating or cold water cooling

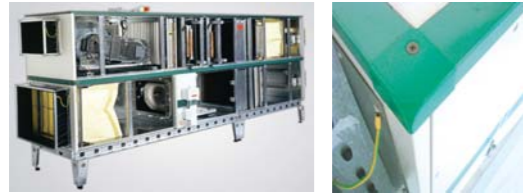
**Sections**

No.	Name	Symbol	Notes
8	Humidifying Section		Three options Dry steam humidifier: Steam pressure 0.2-0.4Mpa Manual,electric or pneumatic control  Water spraying humidifier: Water pressure: 0.1-0.5Mpa Face air speed * 3.5m/s  Wet membrane humidifier: Water pressure: 0.05-0.75Mpa Face air speed * 3.0m/s
9	Spray Section		With repair door and observation window; Internal stainless plate can be used if necessary.
10	Energy Recovery Section		Four options: Rotary wheel exchanger: for 10.10~40.35, energy recovery rate 70~80%  Plate exchanger: for 10.10~25.25, energy recovery rate 60~70%  Hot tube exchanger: for 10.10~25.25, energy recovery rate 40~50%  Circulating coil exchanger: for 10.10~50.50, energy recovery rate 80%
11	Fan Section		Base frame of fan motor equipment can be easily taken out. Optimized shock absorber design. With flexible connection.
12	Diffusing Section		
13	Empty Section		With/without operating door
14	Sound Absorber Section		

## Features and benefits

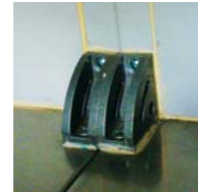
### Outer shell

The design features of OAK MAHU-P optimally combine stability and functionality-in an attractive form. We take St/Zn steel/galvanized framework and powder coated galvanized unit panel, particularly designed frameless panel with smooth interfaces provides the units with an especially quality appearance and easy disassemble and maintenance.



### Connections

The connections take powder coated galvanized connection parts, minimize the air leakage by airproof seal between framework and panel, otherwise that easy assemble and disassemble design. Unit panels are bolted directly to the stable frame, where the bolts are covered by a rail and are normally invisible. These joints do not affect the overall unit length.



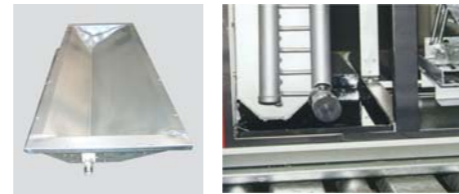
### Unique design operating doors

Operating doors well matched door construction and framework; Fixed with pressure lock, with safety clock and inspection window, all of these make sure maintenance-friendly.



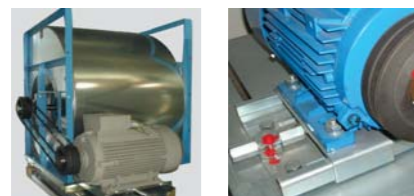
### Drip eliminator and drain pan

The base drain pan adopts concave-structure, which can quickly drain the dirty water out and restrain the microbe.



### Radial fan

Compressed spring-type vibration absorbers;  
Flexible collar connection between fan exhaust and unit chamber;  
Fan unit can be pulled out from the sideward of the unit;  
Forward-curved fan blades or backward-curved fan blade.



### Plug fan

Single-entry air intake radial fan with backward-curved blades;  
Wheel attached directly to the motor shaft;  
Three-phase motor protection by PTC resistor;  
Compressed spring-type vibration absorbers.



## Features and benefits

### High efficiency heat exchanger

Unique cross coil design greatly increase the efficiency;  
Easy cleaning-can be pulled out from unit sideward;  
Galvanized mounting plate.



### Intake chamber

Dampers with galvanized steel frame and aluminum plates, special sealed processing, and inner plastic gears;  
Flexible connection made of polyester weave;  
Good airproof flange connection system.



### Repair switch

Protection class IP65;  
With integrated PTC resistor connection.



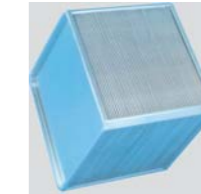
### Control System

Freely programmable controller;  
Compatible with most building management system;  
Multi-Language compatibility;  
Centralized control.



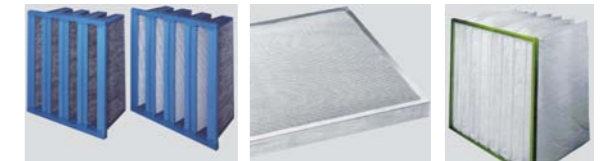
### Plate heat recovery

Energy recovery rate 75%;  
Anti-corrosion aluminum material;  
Bypass dampers.



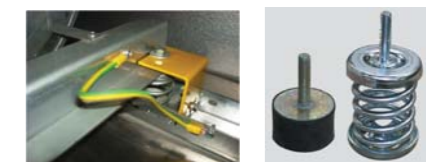
### High efficiency filter

We have plate filter, high efficiency filter, active charcoal filter grease, catching filter and bag filter five models;  
Filtration class can reach G3, G4, F5, F7, F9 standard and high efficiency filter Class H11/H13.

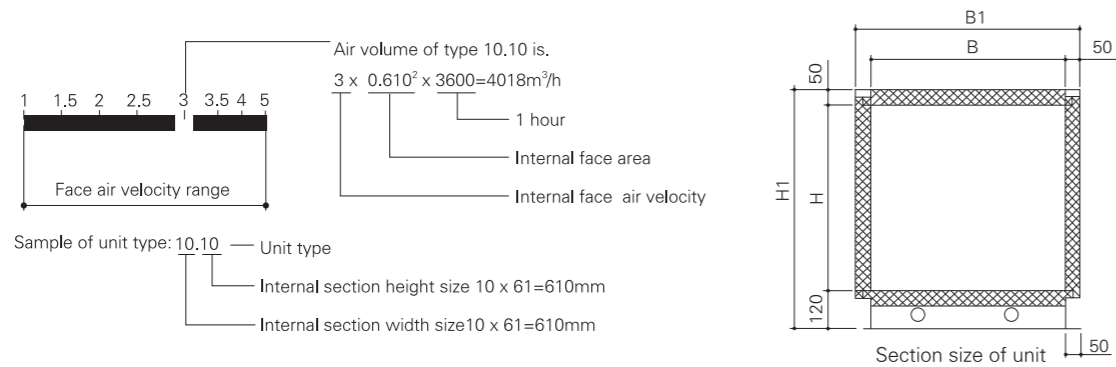


### Noise decoupled unit connection

Galvanized absorber;  
Sound absorbent mineral fiberglass;  
Grounding.

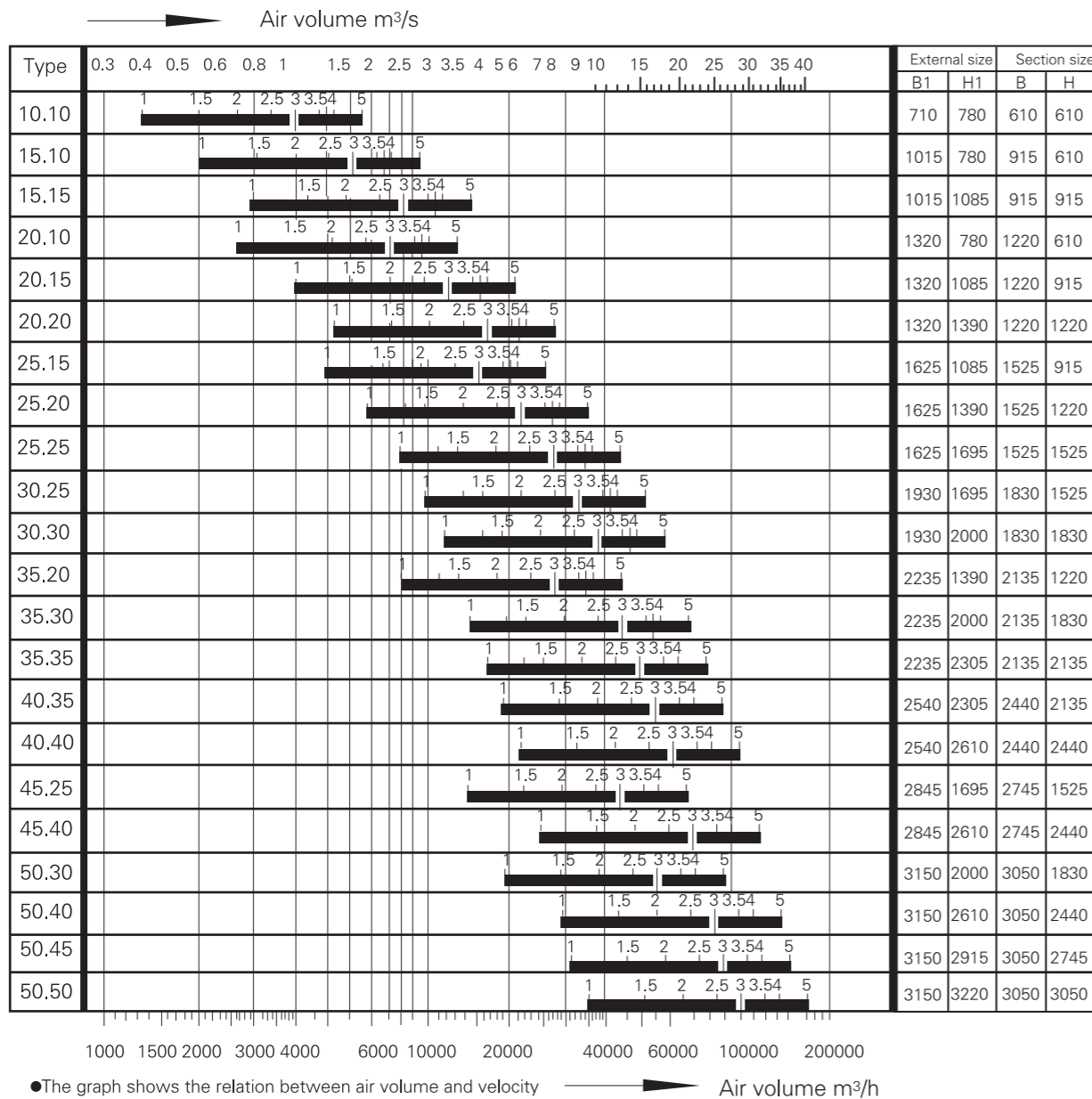


**Quick Selection Chart**



**Quick Selection Range**

Type	Indoor				Outdoor			Hygiene			Air volume range $\text{m}^3/\text{h}$
	Horizontal	Double deck	Side by side	Vertical	Horizontal	Double deck	Side by side	Horizontal	Double deck	Side by side	
10.10	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	1500 ~ 6600
15.10	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2000 ~ 10000
15.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	3000 ~ 15000
20.10	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	2500 ~ 13000
20.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	4000 ~ 20000
20.20	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	5500 ~ 27000
25.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	5000 ~ 25000
25.20	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	7000 ~ 32000
25.25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8500 ~ 42000
30.25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	10000 ~ 52000
30.30	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	12000 ~ 60000
35.20	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	9000 ~ 45000
35.30	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	14000 ~ 70000
35.35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	16000 ~ 80000
40.35	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	18000 ~ 95000
40.40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	22000 ~ 105000
45.25	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	15000 ~ 75000
45.40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	24000 ~ 120000
50.30	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	20000 ~ 100000
50.40	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	27000 ~ 135000
50.45	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	30000 ~ 150000
50.50	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	33000 ~ 165000



Specification (Recycling Air)

Model	Air Volume		Power Supply	Cooling												Heating							
				4 Rows				6 Rows				8 Rows				2 Rows				4 Rows			
	m <sup>3</sup> /h	CFM		V/Ph/Hz	Cooling Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)	Air Resistance (Pa)	Cooling Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)	Air Resistance (Pa)	Cooling Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)	Air Resistance (Pa)	Heating Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)	Air Resistance (Pa)	Heating Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)
10.10	3500	2050	380V-3Ph-50Hz/60Hz	1.7	18	172	20	2.1	28	256	25	2.6	21	341	30	2.4	13	90	28	3.0	21	183	35
15.10	5000	2940		3	19	162	31	3	29	241	38	4	24	320	46	4	9	84	42	4	12	173	52
15.15	7500	4410		4	23	146	47	5	32	217	59	6	26	289	66	5	15	96	61	6	28	156	75
20.10	6500	3820		4	20	150	41	4	30	228	51	5	25	302	57	5	13	92	53	6	25	160	66
20.15	10000	5880		6	24	138	67	7	35	206	77	8	28	274	88	7	14	72	81	9	56	148	100
20.20	13500	7940		8	26	132	95	10	37	198	112	11	30	262	132	10	15	69	115	12	55	142	141
25.15	12500	7350		8	25	134	88	9	36	203	104	11	29	268	123	9	14	70	107	11	56	144	131
25.20	17000	10000		10	28	126	119	12	38	187	136	14	32	249	168	12	19	66	138	15	45	135	176
25.25	20000	11770		12	32	127	142	14	40	189	163	17	35	251	200	15	21	67	174	18	49	136	209
30.25	25000	14700		14	36	132	163	17	43	197	192	21	41	261	239	18	18	69	209	22	18	141	252
30.30	30000	17650		17	41	128	198	20	49	190	232	25	45	252	288	21	21	67	241	26	25	137	301
35.20	23000	13530		13	34	130	150	15	42	195	177	19	39	256	220	17	19	68	192	20	28	140	231
35.30	35000	20590		20	46	124	238	24	63	186	283	29	51	246	338	24	29	66	281	30	18	133	352
35.35	40000	23530		24	52	126	276	28	73	188	330	34	56	249	391	28	36	66	328	35	30	135	410
40.35	45000	26470		28	35	124	322	30	56	186	351	39	40	245	450	32	25	65	375	40	24	133	469
40.40	50000	29410		31	46	129	365	37	60	193	430	44	50	256	511	37	18	68	428	46	11	139	535
45.25	37000	21770		22	50	125	255	26	70	186	305	31	52	248	361	26	30	66	303	33	16	134	380
45.40	60000	35300		36	53	127	417	40	69	191	462	50	57	252	579	41	24	67	482	52	15	137	602
50.30	50000	29410		31	46	129	365	37	60	193	430	44	50	256	511	37	18	68	428	46	11	139	535
50.40	70000	41180		42	64	126	493	47	77	188	552	58	68	249	679	51	31	66	589	63	19	135	737
50.45	80000	47060	48	29	128	563	54	41	191	631	66	38	253	763	57	27	67	663	71	13	137	828	
50.50	90000	52950	56	36	125	648	62	53	187	724	77	41	247	891	63	27	66	737	79	14	134	921	

Testing condition (Recycling air):

Cooling: entering air temp 27°C DB/19.5°C WB; entering water temp 7°C, leaving water temp 12°C.

Heating: entering air temp 15°C DB; entering water temp 60°C, leaving water temp 50°C.

Specification (Fresh Air)

Model	Air Volume		Power Supply	Cooling												Heating							
				4 Rows				6 Rows				8 Rows				4 Rows				6 Rows			
	m <sup>3</sup> /h	CFM		V/Ph/Hz	Cooling Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)	Air Resistance (Pa)	Cooling Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)	Air Resistance (Pa)	Cooling Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)	Air Resistance (Pa)	Heating Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)	Air Resistance (Pa)	Heating Capacity (kW)	Water Flow (m <sup>3</sup> /h)	Water Resistance (kPa)
10.10	3500	2,060	380V-3Ph-50Hz/60Hz	41	4	37	174	50	4	56	259	56	5	47	343	71	6	43	85	89	8	127	65
15.10	5000	2,940		60	5	39	164	74	6	67	244	84	7	66	323	102	9	24	175	128	11	260	41
15.15	7500	4,410		95	8	42	147	106	9	75	220	119	10	75	292	153	13	51	157	190	17	235	47
20.10	6500	3,820		92	8	40	154	92	8	70	232	104	9	70	302	133	11	48	162	165	14	244	54
20.15	10000	5,880		148	13	46	140	148	13	87	210	166	14	87	276	192	17	107	150	238	21	225	105
20.20	13500	7,940		211	18	51	134	211	18	96	201	232	20	96	264	269	23	108	144	330	29	216	110
25.15	12500	7,350		169	15	48	136	196	17	92	205	216	19	92	270	250	21	107	146	307	27	220	109
25.20	17000	10,000		208	18	57	128	247	21	108	190	219	19	108	250	306	26	91	137	391	34	203	105
25.25	20000	11,760		268	23	68	128	293	25	127	192	355	31	127	253	393	34	104	137	471	41	206	153
30.25	25000	14,710		295	25	78	134	375	32	156	199	426	37	156	263	453	39	39	143	545	47	212	73
30.30	30000	17,650		375	32	90	130	500	43	170	192	511	44	170	254	543	47	54	139	680	59	205	123
35.20	23000	13,530		271	23	70	130	345	30	149	197	392	34	149	260	417	36	42	140	502	44	212	83
35.30	35000	20,590		432	37	100	126	525	45	188	187	597	51	188	247	639	55	30	135	800	70	200	32
35.35	40000	23,530		502	43	126	128	612	53	206	190	696	60	206	251	745	64	43	137	933	81	203	48
40.35	45000	26,470		589	51	167	126	700	60	138	187	796	68	138	246	855	74	114	135	1069	93	200	126
40.40	50000	29,410		731	63	82	131	799	69	157	195	930	80	157	257	1073	92	19	141	1341	117	210	18
45.25	37000	21,760		464	40	120	127	567	49	198	189	644	55	198	250	689	59	40	136	863	75	202	43
45.40	60000	35,290		764	66	108	129	900	77	217	192	1071	92	217	253	1103	95	30	139	1378	120	207	27
50.30	50000	29,410		731	63	82	131	799	69	157	195	930	80	157	257	1073	92	19	141	1341	117	210	18
50.40	70000	41,180		949	82	127	128	1160	100	226	189	1280	110	226	250	1417	122	37	137	1773	154	202	40
50.45	80000	47,060	1064	91	96	130	1305	112	109	192	1440	124	109	254	1563	134	43	139	1954	170	205	34	
50.50	90000	52,940	1189	102	98	126	1450	125	134	188	1585	136	134	248	1689	145	38	135	2111	184	201	32	

Testing condition (Fresh Air):

Cooling: entering air temp 35°C DB/28°C WB; entering water temp 7°C, leaving water temp 12°C.

Heating: entering air temp 7°C DB; entering water temp 60°C, leaving water temp 50°C.

## MAHU Ultra-Thin

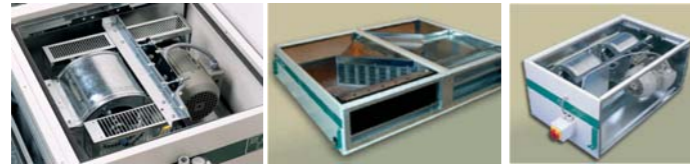


750~5000m³/h

### Features and benefits

#### Stylish and Frameless design

OAK Ultra-Thin Modular Air Handling Unit characterized by particularly designed frameless panel with smooth interfaces; moreover the unit uses effective thermal insulation which decreases the power consumption but optimizes the acoustic values.



#### High efficiency filter and Easy maintenance

The unit adopts high efficiency synthetic fiber filter that can be easily draw out from the unit, which greatly increases maintenance convenience. Moreover the filters can be completely incinerated hygienically.



#### Especially compact design

You can install OAK MAHU-U over a suspended ceiling, in an internal dividing wall, or in a double floor.

#### Complete functional diversity

Despite the highly compact dimensions of OAK MAHU-U, it provides you the complete functional diversity of a full-performance central air-handling unit: ventilation, heating, cooling, filtering of the air, humidifying and de-humidifying, and naturally cost-effective heat recovery.

#### Complete combination diversity

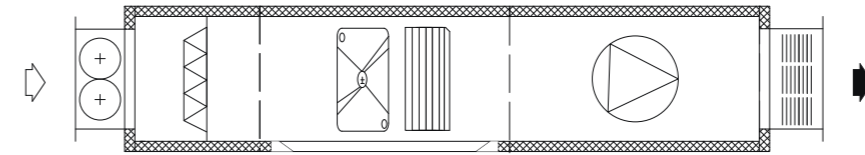
You have free choice in the selection and in the combination of the components and the modules of OAK MAHU-U. You combine the required modules in the desired performance classes - in accordance with the individual requirements that you face in your particular project.

#### Maximum flexibility

The intelligent concept of OAK MAHU-U offers you the maximum of flexibility in planning and installation, with a choice throughout a graduated scale of optimally performance-ranked modules. A great number of additional arguments speak for these OAK units: the practical features of the non-framed panel design, smooth inside surfaces and optimal acoustic performance-as well as ease of servicing and low energy consumption.

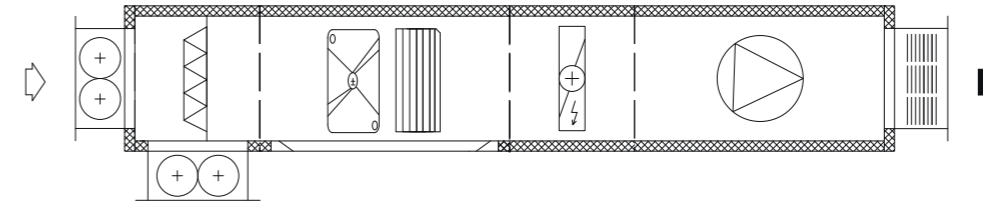
### Typical Combination

#### Combination a



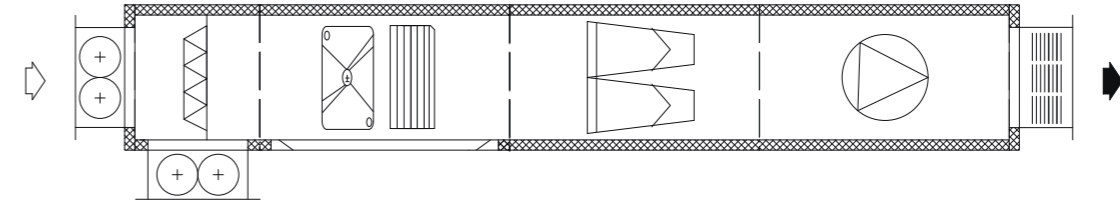
- Air Inlet Section
- Cooling/Heating Section
- Fan Section

#### Combination b



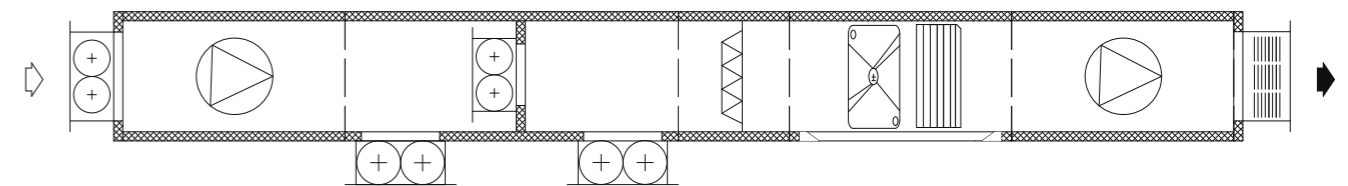
- Fresh/Recycling/Air Mixing Section With Coarse Filter
- Cooling/Heating Section
- Electric Heating Section
- Fan Section

#### Combination c



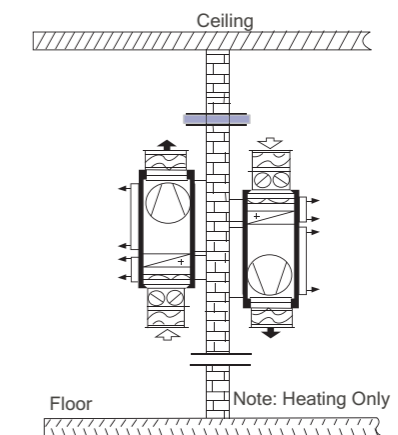
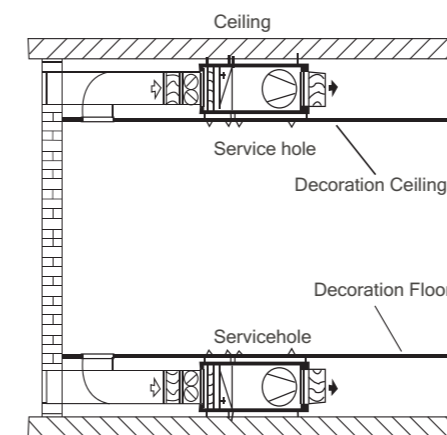
- Fresh Recycling Air Mixing Section With Coarse Filter
- Cooling/Heating Section
- Fine Filtering Section
- Fan Section

#### Combination d



- Fan Section
- Fresh/Recycling/Exhaust Air Mixing Section
- Coarse Filtering Section
- Cooling/Heating Section
- Fan Section

### Diversity Of Installation



**Specification**

11.05

Performance		Air Flow		4 Rows			6 Rows			8 Rows			
				Capacity	Water Flow	Water Resistance	Capacity	Water Flow	Water Resistance	Capacity	Water Flow	Water Resistance	
		m <sup>3</sup> /h	CFM	kW	m <sup>3</sup> /h	kPa	kW	m <sup>3</sup> /h	kPa	kW	m <sup>3</sup> /h	kPa	
Cooling	Recycling Air	750	440	3.5	0.61	1.70	4.5	0.77	1.5				
		1000	590	4.2	0.72	2.20	5.6	0.95	2.1	6.4	1.09	1.5	
		1250	740	4.7	0.79	2.6	6.40	1.10	2.6	7.6	1.3	1.9	
		1500	880	5.4	0.91	3.3	7.2	1.23	3.1	8.6	1.48	2.4	
		1750	1030	6.1	1.02	4.0	7.8	1.34	3.6	9.5	1.64	2.9	
	Fresh Air	750	440	9.8	1.69	9.6	11.5	1.97	6.9				
		1000	590	12.1	2.07	13.8	14.4	2.48	10.3	15.8	2.72	6.8	
		1250	740	14.1	2.42	18.2	17.1	2.93	13.8	19.1	3.27	9.4	
		1500	880	15.9	2.73	22.5	19.6	3.36	17.6	22.0	3.77	12.1	
		1750	1030	17.4	2.99	26.5	22.0	3.77	21.5	24.8	4.26	14.9	
Heating	Recycling Air	750	440	8.1	0.71	1.9	9.3	0.81	1.4				
		1000	590	10.2	0.89	2.8	11.9	1.04	2.1	12.9	1.13	1.4	
		1250	740	12.2	1.06	3.7	14.4	1.26	2.9	15.8	1.38	1.9	
		1500	880	14.0	1.22	4.7	16.8	1.47	3.7	18.5	1.62	2.5	
		1750	1030	15.7	1.37	5.8	19.1	1.67	4.6	21.2	1.85	3.1	
	Fresh Air	750	440	9.8	0.86	2.6	11.2	0.98	1.9				
		1000	590	12.4	1.08	3.8	14.4	1.26	2.9	15.5	1.36	1.8	
		1250	740	14.8	1.29	5.2	17.5	1.52	3.9	19.0	1.66	2.6	
		1500	880	17.0	1.48	6.6	20.1	1.78	5.1	22.3	1.95	3.3	
		1750	1030	19.1	1.67	8.1	23.2	2.02	6.4	25.6	2.23	4.2	
Power Supply				380V-3Ph-50Hz/60Hz									
Water Inlet/Outlet Pipe Connection				DN25			DN32						
Condensing Water Pipe Connection				DN25									

**Specification**

13.08

Performance		Air Flow		4 Rows			6 Rows			8 Rows			
				Capacity	Water Flow	Water Resistance	Capacity	Water Flow	Water Resistance	Capacity	Water Flow	Water Resistance	
		m <sup>3</sup> /h	CFM	kW	m <sup>3</sup> /h	kPa	kW	m <sup>3</sup> /h	kPa	kW	m <sup>3</sup> /h	kPa	
Cooling	Recycling Air	1500	880	6.3	1.9	4.8	9.6	2.3	6.9	11.6	2.5	8.5	
		2000	1180	8.4	2.6	7.7	12.1	2.9	10.0	14.4	3.0	11.4	
		2500	1470	9.4	3.3	11.3	135	3.2	11.7	16.1	3.2	12.6	
		3000	1760	10.8	3.8	14.2	15.7	3.9	16.2	19.1	4.1	19.1	
		1500	880	19.2	5.0	22.5	22.5	4.0	16.9	25.1	4.3	20.6	
	Fresh Air	2000	1180	22.2	5.4	25.7	27.8	4.9	23.3	31.7	5.4	30.8	
		2500	1470	25.0	5.7	28.2	34.4	5.9	33.7	38.4	6.6	42.1	
		3000	1760	28.5	6.2	32.6	37.7	6.8	41.4	44.6	7.5	54.7	
		1500	880	13.8	2.6	7.4	16.1	2.8	8.9	17.5	3.0	10.6	
		2000	1180	17.1	3.1	10.3	20.5	3.5	12.8	22.8	4.2	18.5	
Heating	Recycling Air	2500	1470	20.2	4.1	15.4	24.8	4.5	19.4	27.6	4.7	22.4	
		3000	1760	23.4	5.1	22.3	28.9	5.3	25.7	32.4	5.6	30.3	
		1500	880	18.5	2.7	7.9	21.9	2.9	9.5	23.8	3.2	11.8	
		2000	1180	23.0	3.2	10.3	27.9	3.6	13.4	31.0	4.3	19.3	
		2500	1470	27.6	4.2	16.1	33.8	4.6	20.4	37.5	4.8	23.3	
	3000	1760	31.9	5.2	23.0	39.4	5.4	26.5	44.0	5.7	31.3		
	Power Supply				380V-3Ph-50Hz/60Hz								
	Water Inlet/Outlet Pipe Connection				DN25			DN32					
	Condensing Water Pipe Connection				DN25								
	Testing condition:												
Recycling air:													
Cooling: entering air temp 27°C DB/19.5°C WB; entering water temp 7°C, leaving water temp 12°C.													
Heating: entering air temp 15°C DB; entering water temp 60°C, leaving water temp 50°C.													
Fresh air:													
Cooling: entering air temp 35°C DB/28°C WB; entering water temp 7°C, leaving water temp 12°C.													
Heating: entering air temp 7°C DB; entering water temp 60°C, leaving water temp 50°C.													

**Specification**

16.05

Performance		Air Flow		4 Rows			6 Rows			8 Rows					
				Capacity	Water Flow	Water Resistance	Capacity	Water Flow	Water Resistance	Capacity	Water Flow	Water Resistance			
		kPa	CFM	kW	m <sup>3</sup> /h	kPa	kW	m <sup>3</sup> /h	kPa	kW	m <sup>3</sup> /h	kPa			
Cooling	Recycling Air	1600	940	8.3	1.53	6.0	11.5	1.97	8.6	8.9	1.53	6.7			
		1800	1060	8.9	1.63	6.7	12.6	2.16	10.0	14.1	2.42	9.5			
		2000	1180	9.5	1.15	7.5	13.7	8.9	11.5	15.3	2.62	8.9			
		2200	1290	10.0	1.71	8.1	14.7	2.51	13.1	16.5	2.82	10.1			
		2500	1470	10.6	1.82	9.1	16.0	2.74	15.3	18.2	3.12	12.0			
		2800	1650	11.2	192	9.9	17.3	2.97	17.6	19.8	3.40	14.0			
		3000	1760	11.5	1.97	10.4	18.2	3.12	19.1	20.9	3.58	15.3			
		1600	940	21.0	3.60	29.8	25.1	4.31	34.0	27.4	4.71	24.8			
		1800	1060	22.9	3.92	34.8	27.6	4.73	40.2	30.2	5.19	29.4			
	Fresh Air	2000	1180	24.7	4.24	39.9	29.9	5.12	46.3	33.0	5.66	34.3			
		2200	1290	26.3	4.51	44.7	32.4	5.55	53.5	35.6	6.11	39.3			
		2500	1470	28.8	4.94	52.4	35.7	6.13	63.8	39.4	6.77	47.2			
		2800	1650	31.1	5.34	60.3	39.0	6.69	74.7	43.2	7.41	55.4			
		3000	1760	32.6	5.59	65.6	41.1	7.06	82.2	45.6	7.82	61.1			
		Heating	Recycling Air	1600	940	16.9	1.48	5.4	19.9	1.74	5.7	21.4	1.87	4.2	
				1800	1060	18.6	1.62	6.3	22.1	1.93	6.9	23.8	2.08	5.0	
				2000	1180	20.2	1.76	7.3	24.1	2.11	8.0	26.2	2.29	5.9	
				2200	1290	21.7	1.90	8.3	26.2	2.29	9.3	28.5	2.49	6.9	
2500	1470			24.0	2.09	9.8	29.2	2.55	11.2	31.9	2.79	8.3			
2800	1650			26.1	2.28	11.4	32.1	2.80	13.2	35.3	3.08	9.9			
3000	1760			27.5	2.41	12.5	34.0	2.97	14.7	37.5	3.28	11.0			
1600	940			20.7	1.81	12.7	23.9	2.09	7.9	25.6	2.24	5.7			
1800	1060			22.7	1.98	15.0	26.4	2.31	9.4	28.5	2.49	6.8			
Fresh Air	2000	1180	24.7	2.16	17.4	29.0	2.53	11.1	31.3	2.74	8.1				
	2200	1290	26.6	2.32	19.9	31.4	2.75	12.8	34.1	2.98	9.4				
	2500	1470	29.4	2.57	23.7	35.0	3.06	15.5	38.3	3.34	11.4				
	2800	1650	32.0	2.80	27.7	38.5	3.37	18.3	42.3	3.69	13.6				
	3000	1760	33.8	2.95	33.7	40.8	3.57	20.3	45.0	3.93	15.1				
	Power Supply				380V-3Ph-50Hz/60Hz										
	Water Inlet/Outlet Pipe Connection				DN32			DN40							
	Condensing Water Pipe Connection				DN25										

**Specification**

20.08

Performance		Air Flow		4 Rows			6 Rows			8 Rows				
				Capacity	Water Flow	Water Resistance	Capacity	Water Flow	Water Resistance	Capacity	Water Flow	Water Resistance		
		m <sup>3</sup> /h	CFM	kW	m <sup>3</sup> /h	kPa	kW	m <sup>3</sup> /h	kPa	kW	m <sup>3</sup> /h	kPa		
Cooling	Recycling Air	3500	2060	16.6	3.8	9.4	21.6	3.1	8.5	26.7	4.2	16.7		
		4000	2350	19.2	4.6	9.8	25.1	4.8	12.7	31.0	5.3	19.4		
		4500	2650	20.6	5.0	10.8	28.3	5.3	16.1	33.5	5.7	22.2		
		5000	2940	21.7	5.3	11.9	30.4	5.7	17.7	36.6	6.3	25.8		
		3500	2060	46.7	8.0	21.4	55.6	9.5	39.5	61.0	10.5	55.8		
		4000	2350	50.2	8.6	24.2	60.6	10.4	45.9	66.7	11.4	65.2		
	Fresh Air	4500	2650	53.9	9.2	27.3	65.9	11.3	49.5	72.5	12.4	75.7		
		5000	2940	58.1	10.0	31.2	71.8	12.3	57.7	79.1	13.6	88.4		
		3500	2060	29.9	4.3	18.2	36.1	4.9	25.3	39.7	5.2	30.9		
		4000	2350	32.9	4.5	19.7	40.2	5.2	28.0	44.4	5.5	34.0		
		4500	2650	35.8	4.8	21.9	44.2	5.6	31.8	49.2	5.9	38.4		
		5000	2940	38.6	5.1	24.3	48.1	6.0	35.8	53.7	6.2	41.9		
Heating	Fresh Air	3500	2060	40.7	4.4	18.9	49.1	5.0	26.2	54.0	5.3	32.0		
		4000	2350	44.7	4.6	20.4	54.7	5.3	29.0	60.5	5.6	35.2		
		4500	2650	48.8	4.9	22.7	60.1	5.7	32.8	66.9	6.0	39.6		
		5000	2940	52.6	5.2	25.1	60.5	6.1	36.9	73.1	6.3	43.2		
		Power Supply				380V-3Ph-50Hz/60Hz								
		Water Inlet/Outlet Pipe Connection				DN32			DN40					
Condensing Water Pipe Connection				DN25										

# AHU Specification Check Sheet

Please write a check mark in  and fill in ( ) with specification

<b>Item No.</b>	<b>Quantity ( ) Units</b>		
<b>○AHU Specifications</b>			
AHU Model	<input type="checkbox"/> AHU-C <input type="checkbox"/> AHU-J <input type="checkbox"/> AHU-V <input type="checkbox"/> AHU-H I <input type="checkbox"/> AHU-H II <input type="checkbox"/> AHU-H III <input type="checkbox"/> MAHU-P <input type="checkbox"/> MAHU-U		
Insulation	<input type="checkbox"/> Polyurethane <input type="checkbox"/> Polyethylene <input type="checkbox"/> Polystyrene	Installation <input type="checkbox"/> Indoor <input type="checkbox"/> outdoor	
Power Source ( ) V		Frequency <input type="checkbox"/> 50Hz <input type="checkbox"/> 60Hz	
<b>○Air Supply Side Fan Specification(Design Conditions)</b>			
Air Volume ( )	<input type="checkbox"/> m <sup>3</sup> /h <input type="checkbox"/> CFM	Static Pressure	<input type="checkbox"/> Total Static Pressure ( ) Pa <input type="checkbox"/> External Static Pressure ( ) inWg
Fan Type	<input type="checkbox"/> Forward Curved <input type="checkbox"/> Centrifugal Fan <input type="checkbox"/> Backward Wheel <input type="checkbox"/> Plug Fan	Discharge Air Velocity <input type="checkbox"/> Yes ( ) m/s <input type="checkbox"/> No ( ) ft/min	
Drive Type	<input type="checkbox"/> Belt Drive <input type="checkbox"/> Direct Drive		
<b>○Cooling Coil (Design Condition)</b>			
Capacity	<input type="checkbox"/> Capacity ( ) kW <input type="checkbox"/> Btu/h		
<input type="checkbox"/> Total Supply Air Volume	<input type="checkbox"/> Outside Air, Return Air Volume Specified		
Total Supply Air Volume ( )	Outside Air Volume ( )	Return Air Volume ( )	<input type="checkbox"/> m <sup>3</sup> /h <input type="checkbox"/> CFM
Entering Air Conditions	DB ( ) <input type="checkbox"/> °C <input type="checkbox"/> °F	DB ( ) <input type="checkbox"/> °C <input type="checkbox"/> °F	DB ( ) <input type="checkbox"/> °C <input type="checkbox"/> °F
	RH ( ) %	RH ( ) %	RH ( ) %
<input type="checkbox"/> Leaving Air Temperature	<input type="checkbox"/> DB ( ) <input type="checkbox"/> °C <input type="checkbox"/> °F <input type="checkbox"/> WB ( ) <input type="checkbox"/> °C <input type="checkbox"/> °F		
Chilled Water	<input type="checkbox"/> Entering Temperature ( ) <input type="checkbox"/> °C <input type="checkbox"/> °F	<input type="checkbox"/> Leaving Temperature ( ) <input type="checkbox"/> °C <input type="checkbox"/> °F	
Face Air Velocity Requirement	<input type="checkbox"/> Yes ( ) m/s <input type="checkbox"/> No ( ) ft/min		
<b>○Heating Coil</b>			
<input type="checkbox"/> Yes <input type="checkbox"/> No	Heating Capacity ( )	<input type="checkbox"/> kW <input type="checkbox"/> Btu/h	
<b>○Return Air Fan</b>			
<input type="checkbox"/> Yes <input type="checkbox"/> No	Return Air Volume ( )	Static Pressure	<input type="checkbox"/> Total Static Pressure ( ) Pa <input type="checkbox"/> External Static Pressure ( ) inWg
	<input type="checkbox"/> m <sup>3</sup> /h <input type="checkbox"/> CFM		<input type="checkbox"/> Pa <input type="checkbox"/> inWg
<b>○Filter</b>			
Panel Type <input type="checkbox"/> Yes <input type="checkbox"/> No	Efficiency <input type="checkbox"/> G3 <input type="checkbox"/> G4	Bag Type <input type="checkbox"/> Yes <input type="checkbox"/> No	Efficiency <input type="checkbox"/> F5 <input type="checkbox"/> F7 <input type="checkbox"/> F9 <input type="checkbox"/> HEPA <input type="checkbox"/> Yes <input type="checkbox"/> No
			Efficiency <input type="checkbox"/> H10 <input type="checkbox"/> H11 <input type="checkbox"/> H13
<b>○Optional</b>			
<input type="checkbox"/> Electrical Heating			
<input type="checkbox"/> Dry Steam			
<input type="checkbox"/> Humidifier <input type="checkbox"/> High-Pressure fog <input type="checkbox"/> Wet Film			
<input type="checkbox"/> Heat Recovery			
<input type="checkbox"/> Rotary Wheel Exchanger ( Energy Recovery Rate 70-80%)			
<input type="checkbox"/> Plate Exchanger ( Energy Recovery Rate 60-70%)			
<input type="checkbox"/> Hot Tube Exchanger ( Energy Recovery Rate 40-50%)			
<input type="checkbox"/> Circulating Coil Exchanger ( Energy Recovery Rate 80%)			

# ACCESSORIES



Air Curtain

- Unique novel elegant appearance
- Effectively prevent indoor side heat energy loss
- Easily installed and maintained
- Environment friendly
- Additional function: fresh keeping & anti-dust



Airflow-adjusting and Anti-fire Valves

- Airflow-adjusting valves include manual and electric type, the electric valve can realize adjust airflow volume automatically
- Anti-fire valves have auto-locked function and the valve angle can be adjusted from 0° to 90°
- Anti-fire valves can be closed automatically when the temperature achieves 70 °C



Grilles & Diffusers

- OAK grilles have various elegant appearances
- Shape designed by different demands of customers
- Long lifetime thanks to high quality materials