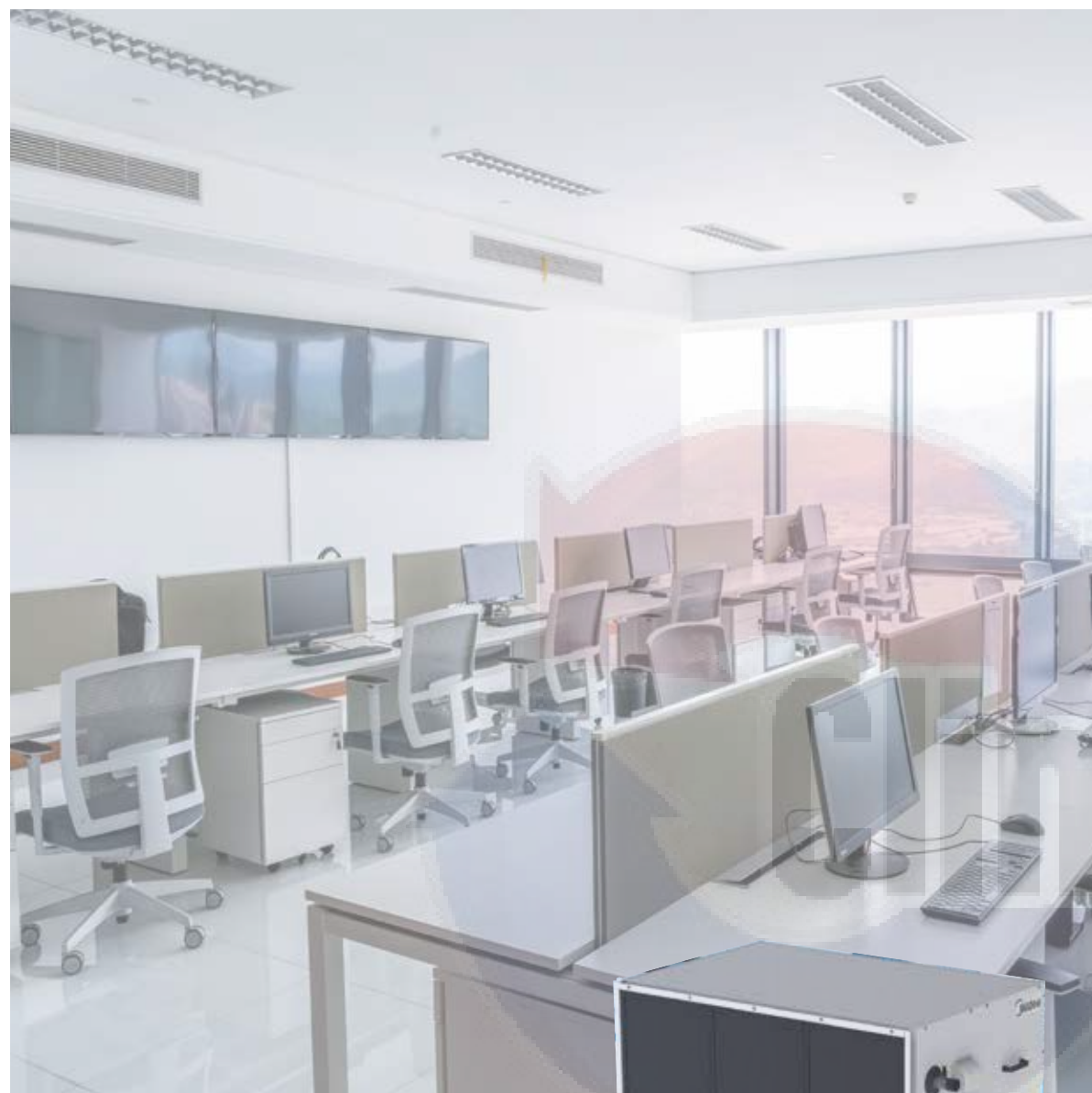


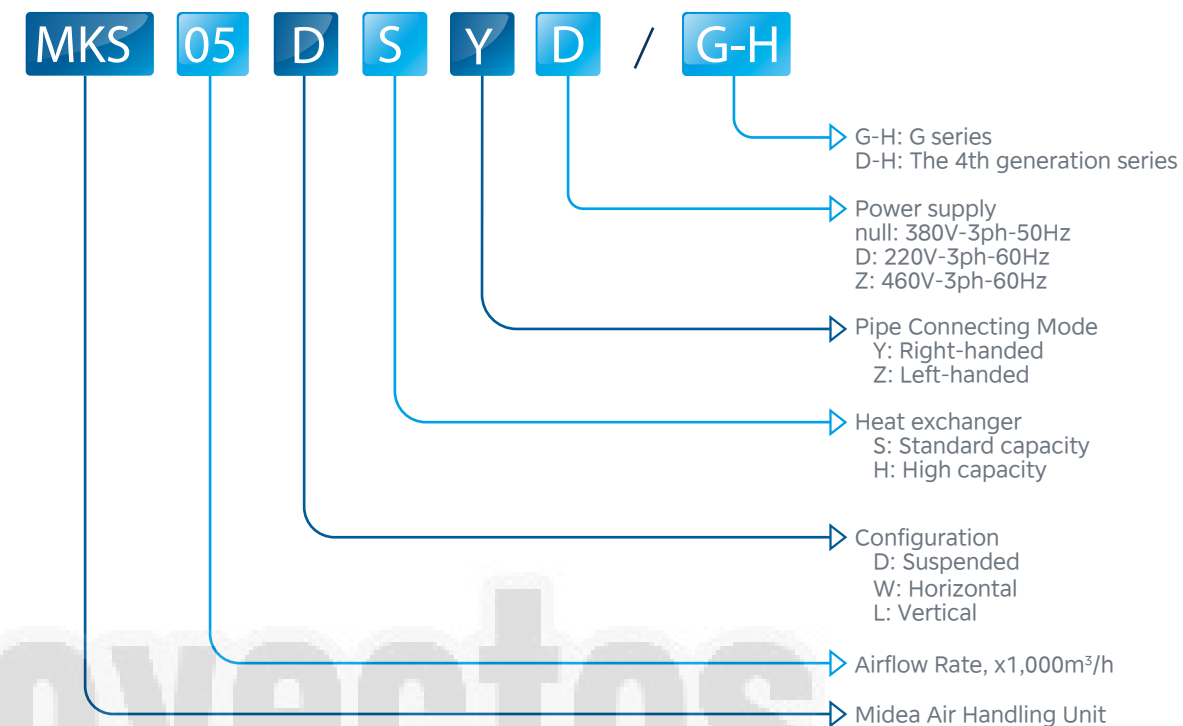


Midea Air Handling Units

An Air Handling Unit (AHU) is a key component of a central air conditioning system, designed to condition air and distribute it to indoor spaces requiring climate control. Midea air handling units (AHUs) are engineered to exacting tolerances to meet the demanding heating and cooling needs of diverse spaces, including office buildings, shopping malls, exhibition halls, airports, railway stations, hotels, and factories. Trusted worldwide, Midea AHUs deliver reliable performance across the globe.

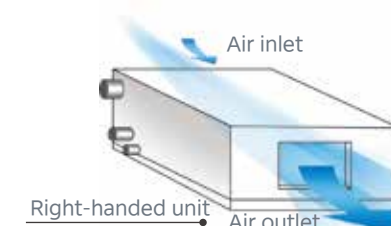
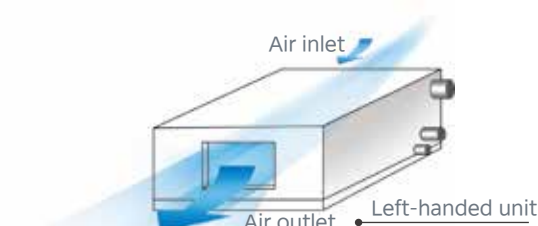
Midea AHU leverages proprietary technology to enhance comfort and convenience. It features a unitary design structure, improved cold-bridge-free performance, reduced air leakage, and a more refined appearance. Three configurations—suspended, horizontal, and vertical—are available with airflow rates ranging from 2,000 m³/h to 25,000 m³/h. External static pressure (ESP) can also be customized to suit unique application requirements.

Nomenclature



Orientation

Unit handling orientation is determined by the location of the pipe connection while facing the unit in the same direction as the airflow. The illustrations below show a left- and right-handed unit.



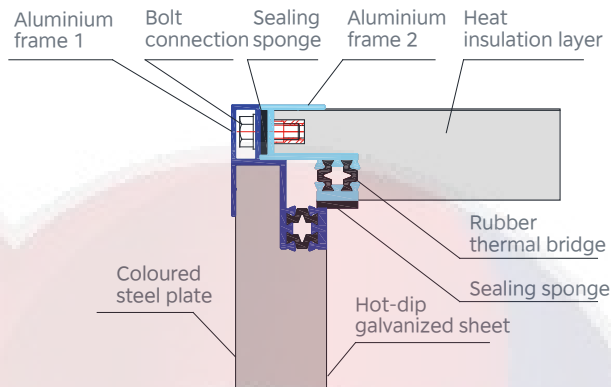
FEATURES

Durable construction

The double-skinned panels are injected with high-density polyurethane for superior insulation and durability. Featuring a patented composite profile construction, the design incorporates a built-in high-strength aluminum profile, enhancing the box's rigidity and meeting or exceeding the mechanical strength standards of European EN1886, Class 2.

Innovative cold-bridge-free construction

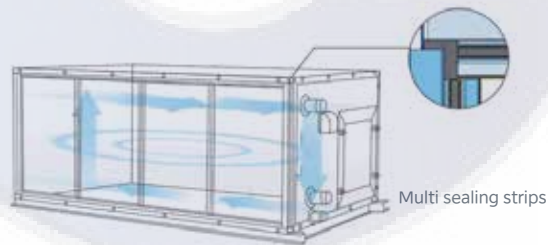
The injected polyurethane has a density of 50 kg/m³ and a thermal conductivity factor of $K \leq 0.0224 \text{ W/m}^2\cdot\text{K}$, ensuring excellent insulation. The cabinet panel design incorporates male and female aluminum-alloy connectors with sealing strips for a secure fit. The service door frame is constructed from a steel and plastic combination, featuring a polyurethane-injected panel and a rubber sealing strip for enhanced durability and airtight sealing.



Minimal air-leakage

The unit's double-skinned panels, minimal connecting joints, and multiple sealing strips around the service door form a single, integrated structure that ensures nearly all conditioned air is delivered to the intended indoor space. This design achieves an exceptionally low air leakage rate of less than 0.29%. Additionally, the unit remains sweat-free even when the external room temperature is 27°C with relative humidity levels as high as 90%.

- Simplified structural components
- Less at-site work



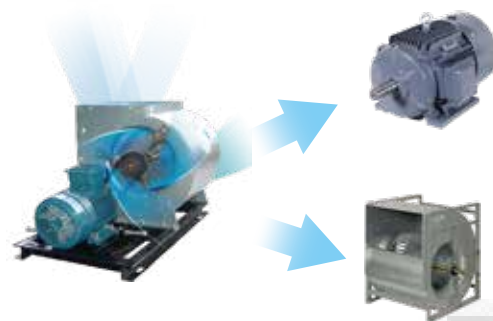
High performance heat exchanger



- Copper pipe and aluminum fin type heat exchanger, optimal choice of fin spacing and number of rows.
- Fins are coated with anticorrosive layers, assure longer coil life and lower maintenance cost.
- Optimal water circuits design, increased heat exchange efficiency and decreased water resistance, improving unit performance and efficiency.

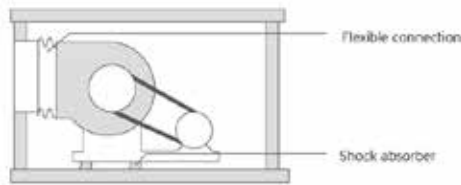
Air-supply

- Yilida brand centrifugal fan, high performance efficiency, 3-phase, class "F" insulation and IP55 protection AC motor.
- Belt drive, optimal selection of drive ratio, increase fan/motor assembly efficiency, easy for maintenance.
- Service door or service panel is equipped for inspection of motor and fan.



Low noise design

- Optimized fan design combined with overall smooth and efficient operation.
- A flexible coupling at the air outlet dampens vibration and minimizes noise transmission.
- Built-in shock absorbers reduce vibrations to minimize noise, tightly-sealed cabinet construction contains and controls sound levels.



Improved indoor air quality

- Frame-plate type filter features durable aluminum-alloy construction.
- Filter covers entire return-air inlet enhancing air quality.
- Filter can be removed from the left or right providing flexibility for easier maintenance.



Durable and stylish design

The outer skin is coated with an easy-to-clean anti-corrosive layer that prevents scratching during transport and assembly. Fastening bolts are concealed by plastic caps and the entire unit designed for an attractive, color-coordinated appearance.

Highly versatile

- Three structure design: horizontal type, vertical type and suspended type.
- Two pipe connecting mode: right-handed and left handed.
- Air flow rate ranging from 2,000m³/h to 25,000mm³/h.
- Different ESP can be customized.

Midea AHU can be widely used in hotels, restaurants, factories, hospitals, airports, railway stations, exhibition halls, office buildings, shopping malls, laboratories and other central air-conditioning systems.



School

Factory

Hotel

Hospital

Office

MECHANICAL SPECIFICATIONS

Durable base design

Unit sections are mounted on a galvanized steel or channel-steel base frame for easy shipment and handling. The frames include holes for connecting sections and for forklift access, with a guard rail across the bottom of the holes to prevent damage. The base frame can serve as a substitute for a concrete plinth or other site-installed bases. However, for high-static pressure applications, a supplemental concrete plinth or other base is required to raise the AHU for proper drain pan U-trap installation.

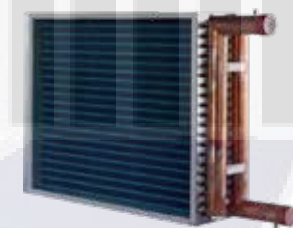
Double skin panel

Panels feature a standard 25mm double-skin construction with injected polyurethane foam insulation. The outer skin is made of anti-corrosion color-coated steel with a protective film, while the inner skin is galvanized steel. The insulation is moistureproof, corrosion-resistant, and securely enclosed within the panel to prevent exposure to the air stream. insulation being exposed to air stream.

Coil

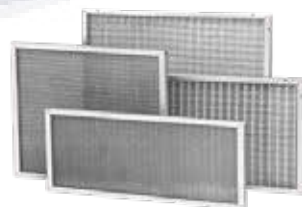
Midea AHUs use AHRI-certified coils made of copper tubes and aluminum fins, featuring a sine-wave design with slits to enhance heat transfer efficiency and moisture handling capacity. Each coil is factory leak tested to withstand pressures up to 1.6 MPa.

The coils are mounted on a U-shaped support positioned over a drain pan that extends beyond the coil's leaving side to collect condensate water. Coil connections extend outside the unit cabinet for convenient valve and piping connections. An air discharge valve, located at the top of the water outlet pipe, is also positioned outside the cabinet for easy access.



Filter

The standard filter features an efficiency plate-type design with an aluminum-alloy frame for durability and stability. Filters are easy to replace or clean and can be inserted or removed from either the left or right side, offering added convenience.



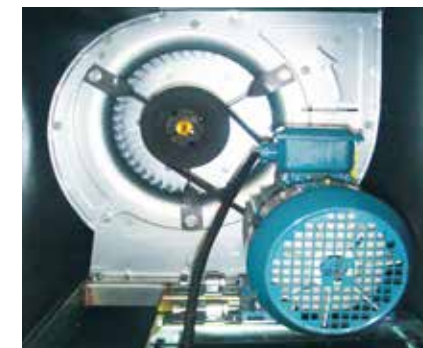
Drain pan

The cooling coil, mounted on a reversed U-shaped support plate, is designed to ensure efficient drainage into the pan. The standard galvanized drain pan is coated to inhibit the growth of algae and fungi with 10mm insulation provided between the drain pan and the bottom panel. A stainless steel drain pan is also available as an option.

Fan and motor assembly

The fan is made of high-grade hot-galvanized steel with an anti-corrosive coating and is aerodynamically optimized for efficiency. A flexible canvas duct at the fan discharge outlet isolates the fan connection from the unit casing. The fan-motor assembly is internally isolated from the unit casing using a factory-installed rubber pad.

Motors are mounted on slide rails for precise V-belt tensioning and can be adjusted in all directions for optimal alignment. The fan and motor assembly are mounted on a rigid base frame supported by rubber shock absorbers to reduce vibrations. The discharge fan features a fire-retardant flexible connection for added safety.



Fan and motor assembly

Access panel



Inside



Outside

The access panel features a double-skin design with injected polyurethane foam insulation. The outer skin is anti-corrosion coated steel, while the inner skin is galvanized steel. Four hinges ensure stability and allow for easy opening and closing, simplifying maintenance and inspection. A durable rubber seal around the panel frame, combined with 10mm-thick insulation affixed to the back, prevents air leakage and enhances efficiency.

Air dampers

Optional air dampers enhance AHU performance with aerodynamically designed blades and built-in high-quality bearings. Blade edges are lined with sealing strips to minimize air leakage. Dampers are available in two configurations: parallel-turning blades or gear-linked blades for opposing-direction operation. Each damper is rigorously tested to ensure precise linear control and optimal performance.



SPECIAL FOR G SERIES SUSPENDED TYPE

Integrated water pan with leak-proof function

The one-piece foamed integral water pan serves both as the base plate and water collection function. The flat design around the edges ensures that the box does not leak. The water collection part is treated with anti-corrosion by electrostatic spraying process. The water pipe is equipped with a built-in slope to ensure smooth drainage of condensate water without retention, preventing bacterial growth.



No cold bridge, excellent sealing performance

The panels are assembled into a box through corner + U-shaped multiple sealing anti-cold bridge design, with strong air tightness of the box. The air leakage rate of the box can reach the EN1886 L2 grade of the European air handling unit standard, and the cold bridge factor can reach the EN1886 TB2 grade standard.



Excellent heat insulation effect

The panel is made of inner and outer double-layer steel plates and low thermal conductivity polyurethane through one-time foaming, using the new generation of 0-ODP environmentally friendly foaming agent. The foaming density is $\geq 45\text{kg/m}^3$, and the thermal conductivity is $\leq 0.022\text{W/m}\cdot^\circ\text{C}$, which has good heat insulation and noise reduction performance. The heat insulation performance of the box body meets the EN1886 T2 grade standard. The standard thickness of the panel is 30mm.



High-strength enclosure

The inner and outer panels of the enclosure are designed with multiple bends of sheet metal, with cold bridge prevention achieved through the use of plug-in profiles, and the interior is filled with high-density polyurethane foam. The mechanical strength of the enclosure can reach the European air handling unit standard EN1886 D1 level.



Specifications

Suspended type

Return air condition

Model	Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	Water pressure drop	External total pressure	Fan motor input	Sound level	Net weight	Unit dimensions	Package dimension	
	m³/h	kW	kW	L/s	kPa	Pa	kW	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	
MKS02DHY/G-H	2000	14.6	22.6	0.70	6.52	280	0.55	58.9	95	870×750×555	1130×915×705	
MKS02DHz/G-H												
MKS03DSY/G-H	3000	17.1	26.7	0.82	25.66	120	0.55	58.0	120	1020×830×605	1280×995×755	
MKS03DSZ/G-H												
MKS03DHY/G-H			22.0	33.8	1.05	16.04	280	0.75	58.1			125
MKS03DHz/G-H	4000									1300×830×605	1550×995×755	
MKS04DSY/G-H			22.8	39.9	1.09	63.32	120	0.75	60.0			145
MKS04DSZ/G-H												
MKS04DHY/G-H			29.3	45.1	1.40	40.15	280	1.1	61.9			155
MKS04DHz/G-H	5000									1390×830×605	1650×995×755	
MKS05DSY/G-H			28.5	47.5	1.36	67.58	120	1.1	62.0			160
MKS05DSZ/G-H												
MKS05DHY/G-H												
MKS05DHz/G-H	6000									1590×830×605	1850×995×755	
MKS06DSY/G-H			34.1	57.5	1.63	72.02	160	1.5	62.0			180
MKS06DSZ/G-H												
MKS06DHY/G-H			44.1	67.7	2.11	60.21	320	2.2	63.3			190
MKS06DHz/G-H	7000									1590×830×705	1850×995×855	
MKS07DSY/G-H			39.1	66.0	1.90	76.40	160	1.1	64.0			190
MKS07DSZ/G-H												
MKS07DHY/G-H												
MKS07DHz/G-H	8000		51.7	79.0	2.47	83.38	320	2.2	65.4	205	1700×830×705	1950×995×855
MKS08DSY/G-H			45.5	73.1	2.17	81.38	160	1.5	64.0	205		
MKS08DSZ/G-H												
MKS08DHY/G-H												
MKS08DHz/G-H	9000		59.1	90.2	2.82	88.83	320	2.2	65.5	220	1700×920×755	1950×1085×905
MKS09DSY/G-H												
MKS09DSZ/G-H			51.2	83.0	2.45	67.94	200	2.2	66.0	235		
MKS09DHY/G-H												
MKS09DHz/G-H	10000		67.1	100.8	3.21	78.46	370	3	67.0	250	1940×920×755	2200×1085×905
MKS10DSY/G-H			58.9	99.3	2.81	66.56	200	2.2	66.0	260		
MKS10DSZ/G-H												
MKS10DHY/G-H												
MKS10DHz/G-H	12000		74.6	112.0	3.56	85.47	370	3	67.8	280	1940×920×860	2200×1085×1010
MKS12DSY/G-H			68.3	113.5	3.26	71.52	200	3	68.0	270		
MKS12DSZ/G-H												
MKS12DHY/G-H												
MKS12DHz/G-H	15000		85.6	135.2	4.09	87.88	370	4	69.6	290	2240×1000×905	2500×1165×1055
MKS15DSY/G-H												
MKS15DSZ/G-H			85.3	142.1	4.08	83.62	240	4	70.0	350		
MKS15DHY/G-H												
MKS15DHz/G-H		107.0	169.0	5.11	76.25	420	5.5	71.8	380			

1.Cooling capacity is based in the following condition
a)Water temperature: 7°C (inlet)/12°C (outlet) b)Air entering condition: 27°C DB/19.5°C WB
2.Heating capacity is based on the following condition
a)Water temperature: 60°C (inlet) /same water flow as in standard rating condition in cooling (outlet) b)Air entering condition: 21°C DB

Suspended type

Fresh air condition

Model	Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	Water pressure drop	External total pressure	Fan motor input	Sound level	Net weight	Unit dimensions	Package dimension
	m³/h	kW	kW	L/s	kPa	Pa	kW	dB(A)	kg	W×D×H (mm)	W×D×H (mm)
MKS02DHY/G-H MKS02DHZ/G-H	2000	28.4	33.0	1.35	32.25	280	0.55	58.9	95	870×750×555	1130×915×705
MKS03DSY/G-H MKS03DSZ/G-H MKS03DHY/G-H MKS03DHZ/G-H		32.0	35.6	1.53	35.66	120	0.55	58.0	120	1020×830×605	1280×995×755
MKS04DSY/G-H MKS04DSZ/G-H MKS04DHY/G-H MKS04DHZ/G-H	4000	45.5	52.0	2.17	63.32	120	0.75	60.0	145	1300×830×605	1550×995×755
MKS05DSY/G-H MKS05DSZ/G-H MKS05DHY/G-H MKS05DHZ/G-H		57.1	72.6	2.73	67.58	120	1.1	62.0	160	1390×830×605	1650×995×755
MKS06DSY/G-H MKS06DSZ/G-H MKS06DHY/G-H MKS06DHZ/G-H	6000	64.9	84.0	3.10	72.02	160	1.5	62.0	180	1590×830×605	1850×995×755
MKS07DSY/G-H MKS07DSZ/G-H MKS07DHY/G-H MKS07DHZ/G-H		83.8	97.2	4.00	76.40	160	1.1	64.0	190	1590×830×705	1850×995×855
MKS08DSY/G-H MKS08DSZ/G-H MKS08DHY/G-H MKS08DHZ/G-H	8000	87.6	112.0	4.19	83.83	160	1.5	64.0	205	1700×830×705	1950×995×855
MKS09DSY/G-H MKS09DSZ/G-H MKS09DHY/G-H MKS09DHZ/G-H		106.1	123.1	5.07	68.49	200	2.2	66.0	235	1700×920×755	1950×1085×905
MKS10DSY/G-H MKS10DSZ/G-H MKS10DHY/G-H MKS10DHZ/G-H	10000	113.0	140.0	5.40	66.22	200	2.2	66.0	260	1940×920×755	2200×1085×905
MKS12DSY/G-H MKS12DSZ/G-H MKS12DHY/G-H MKS12DHZ/G-H		139.1	161.4	6.65	75.15	200	3	68.0	270	1940×920×860	2200×1085×1010
MKS15DSY/G-H MKS15DSZ/G-H MKS15DHY/G-H MKS15DHZ/G-H	15000	170.0	210.0	8.12	86.32	240	4	70.0	350	2240×1000×905	2500×1165×1055
		213.0	247.0	10.18	75.26	420	5.5	71.8	380		

1.Cooling capacity is based in the following condition
a)Water temperature: 7°C (inlet)/12°C (outlet) b)Air entering condition: 27°C DB/19.5°C WB
2.Heating capacity is based on the following condition
a)Water temperature: 60°C (inlet) /same water flow as in standard rating condition in cooling (outlet) b)Air entering condition: 21°C DB

Horizontal type

Return air condition

Model	Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	External total pressure	External static pressure	Fan motor input	Water pressure drop	Chilled water pipe	Cooling water pipe	Sound level	Net weight	dimensions	Package dimension	Power supply
	m³/h	kW	kW	L/s	Pa	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
MKS05WSY/D-H MKS05WSZ/D-H	5000	28.3	47.5	1.35	160	96	1.1	21.6	40		59.5	190	1100×1120×840	1294×1264×980	
MKS05WHY/D-H MKS05WHZ/D-H		36.6	56.4	1.75	160	96	1.1	13.99	40		61.2	230			
MKS06WSY/D-H MKS06WSZ/D-H	6000	34.6	58.8	1.65	160	68	1.5	31.06	40		60.3	210	1200×1120×840	1394×1264×980	
MKS06WHY/D-H MKS06WHZ/D-H		44.1	67.7	2.11	160	68	1.5	20.65	40		61.4	270			
MKS08WSY/D-H MKS08WSZ/D-H	8000	50.8	73.1	2.43	160	78	1.5	45.49	50		63.1	250	1450×1170×945	1646×1314×1092	
MKS08WHY/D-H MKS08WHZ/D-H		59.1	90.2	2.82	160	78	2.2	55.79	50		63.5	273			
MKS10WSY/D-H MKS10WSZ/D-H	10000	63.2	91.3	3.02	240	112	3	79.39	50		63.5	300	1650×1200×965	1864×1344×1112	380V-3-50Hz
MKS10WHY/D-H MKS10WHZ/D-H		74.6	112	3.56	240	112	3	38.06	50		65.2	325			
MKS15WSY/D-H MKS15WSZ/D-H	15000	91	131.3	4.35	240	125	4	49.36	50		66.1	390	1940×1220×1195	2134×1364×1338	
MKS15WHY/D-H MKS15WHZ/D-H		107	169	5.11	240	125	4	78.31	65		68.2	480			
MKS20WSY/D-H MKS20WSZ/D-H	20000	119.3	183.4	5.7	320	210	7.5	65.54	65		70.4	500	2240x1350x1630	2442×1502×1782	
MKS20WHY/D-H MKS20WHZ/D-H		149	224	7.12	320	210	7.5	58.67	65		71.6	620			
MKS25WSY/D-H MKS25WSZ/D-H	25000	149.3	248.9	7.13	420	318	7.5	66.16	65		70.2	580	2590x1400x1835	2792×1552×1987	
MKS25WHY/D-H MKS25WHZ/D-H		187	279	8.93	420	318	7.5	75.94	80		71.5	685			

1.Cooling capacity is based in the following
a)Water temperature: 7°C (inlet)/12°C (outlet) b)Air entering condition: 27°C DB/19.5°C WB
2.Heating capacity is based on the following
a)Water temperature: 60°C (inlet) /same water flow as in standard rating condition in cooling (outlet) b)Air entering condition: 21°C DB

Horizontal type

Fresh air condition

Model	Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	External total pressure	External static pressure	Fan motor input	Water pressure drop	Chilled water pipe	Cooling water pipe	Sound level	Net weight	dimensions	Package dimension	Power supply
	m³/h	kW	kW	L/s	Pa	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
MKS05WSY/D-H MKS05WSZ/D-H	5000	57.1	72.6	2.70	160	96	1.1	61.06	40	25	59.5	190	1100×1120 ×840	1294×1264 ×980	
MKS05WHY/D-H MKS05WHZ/D-H		70.9	82.4	3.40	160	96	1.1	58.49	40		61.2	230			
MKS06WSY/D-H MKS06WSZ/D-H	6000	64.9	84.0	3.10	160	68	1.5	37.6	40	25	60.3	210	1200×1120 ×840	1394×1264 ×980	
MKS06WHY/D-H MKS06WHZ/D-H		84.5	97.0	4.00	160	68	1.5	62.06	40		61.4	270			
MKS08WSY/D-H MKS08WSZ/D-H	8000	87.6	112.0	4.20	160	78	1.5	73.31	50	25	63.1	250	1450×1170 ×945	1646×1314 ×1092	
MKS08WHY/D-H MKS08WHZ/D-H		113.0	132.0	5.40	160	78	2.2	46.54	50		63.5	273			
MKS10WSY/D-H MKS10WSZ/D-H	10000	113.0	140.0	5.40	240	112	3	79.28	50	25	63.5	300	1650×1200 ×965	1864×1344 ×1112	380V-3- 50Hz
MKS10WHY/D-H MKS10WHZ/D-H		141.0	165.0	6.70	240	112	3	69.33	50		65.2	325			
MKS15WSY/D-H MKS15WSZ/D-H	15000	170.0	210.0	8.10	240	125	4	73.22	50	25	66.1	390	1940×1220 ×1195	2134×1364 ×1338	
MKS15WHY/D-H MKS15WHZ/D-H		213.0	247.0	10.20	240	125	4	76.15	65		68.2	480			
MKS20WSY/D-H MKS20WSZ/D-H	20000	222.0	280.0	10.60	320	210	7.5	69.42	65	25	70.4	500	2240×1350 ×1630	2442×1502 ×1782	
MKS20WHY/D-H MKS20WHZ/D-H		279.0	323.0	13.30	320	210	7.5	66.16	65		71.6	620			
MKS25WSY/D-H MKS25WSZ/D-H	25000	279.0	350.0	13.30	420	318	7.5	71.84	65	25	70.2	580	2590×1400 ×1835	2792×1552 ×1987	
MKS25WHY/D-H MKS25WHZ/D-H		350.0	404.0	16.70	420	318	7.5	83.36	80		71.5	685			

1.Cooling capacity is based in the following
a)Water temperature: 7°C (inlet)/12°C (outlet) b)Air entering condition: 35°C DB/28°C WB
2.Heating capacity is based on the following:
a)Water temperature: 60°C (inlet) /same water flow as in standard rating condition in cooling (outlet) b)Air entering condition: 7°C DB

Vertical type

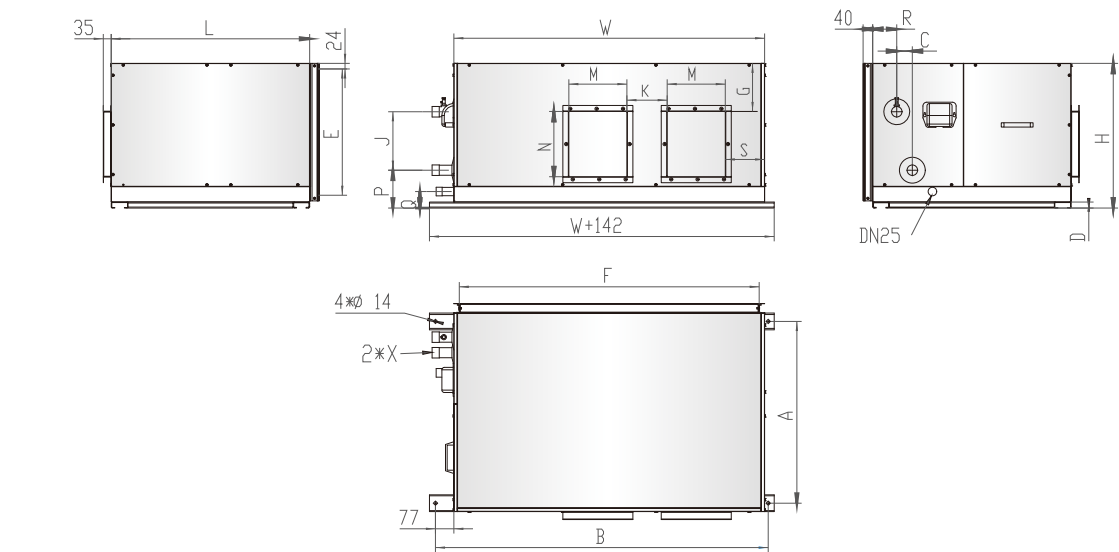
Return air condition

Model	Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	External total pressure	External static pressure	Fan motor input	Water pressure drop	Chilled water pipe	Cooling water pipe	Sound level	Net weight	dimensions	Package dimension	Power supply
	m³/h	kW	kW	L/s	Pa	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
MKS03LSY/D-H MKS03LSZ/D-H	3000	17.1	26.7	0.82	120	52	0.75	23.4	40	25	57.1	130	1010×580 ×1100	1260×730 ×1290	
MKS03LHY/D-H MKS03LHZ/D-H		22.0	33.8	1.05	120	52	0.75	14.54	40		57.5	140			
MKS04LSY/D-H MKS04LSZ/D-H	4000	22.8	39.9	1.09	160	79	1.1	24.88	40	25	58.2	150	1050×580 ×1250	1300×730 ×1440	
MKS04LHY/D-H MKS04LHZ/D-H		29.3	45.1	1.40	160	79	1.1	16.56	40		60.3	162			
MKS05LSY/D-H MKS05LSZ/D-H	5000	28.3	47.5	1.40	160	96	1.1	31.86	40	25	60.5	170	1110×630 ×1420	1360×780 ×1610	
MKS05LHY/D-H MKS05LHZ/D-H		36.6	56.4	1.70	160	96	1.5	20.8	40		61.2	185			
MKS06LSY/D-H MKS06LSZ/D-H	6000	34.6	58.8	1.70	160	68	1.5	43.75	40	25	61.4	190	1200×630 ×1470	1450×780 ×1660	
MKS06LHY/D-H MKS06LHZ/D-H		44.1	67.7	2.10	160	68	1.5	28.5	40		61.9	210			
MKS08LSY/D-H MKS08LSZ/D-H	8000	50.8	73.1	2.40	200	118	2.2	49.98	50	25	63.2	230	1350×740 ×1650	1600×890 ×1840	380V-3- 50Hz
MKS08LHY/D-H MKS08LHZ/D-H		59.1	90.2	2.80	200	118	2.2	52.7	50		63.6	255			
MKS10LSY/D-H MKS10LSZ/D-H	10000	58.9	99.3	2.81	240	112	3.0	58.17	50	25	64.5	250	1410×740 ×1800	1660×890 ×1990	
MKS10LHY/D-H MKS10LHZ/D-H		74.6	112.0	3.60	240	112	3.0	58.36	50		65.4	290			
MKS15LSY/D-H MKS15LSZ/D-H	15000	91	131.3	4.30	240	125	5.5	58.42	50	25	67.6	360	1940 ×740×1880	2190×960 ×2070	
MKS15LHY/D-H MKS15LHZ/D-H		107.0	169.0	5.10	240	125	5.5	86.04	50		68.4	410			
MKS20LSY/D-H MKS20LSZ/D-H	20000	113.7	183.4	5.4	280	152	7.5	74.53	50	25	70.5	480	2300x860 x2305	2550×1080 ×2485	
MKS20LHY/D-H MKS20LHZ/D-H		149.0	224.0	7.10	280	152	7.5	64.1	50		71.2	540			
MKS25LSY/D-H MKS25LSZ/D-H	25000	149.3	248.9	7.10	320	218	7.5	79.53	65	25	70.7	620	2700x960 x2570	2950×1180 ×2760	
MKS25LHY/D-H MKS25LHZ/D-H		187.0	279.0	8.90	320	218	7.5	85.78	65		71.3	680			

1.Cooling capacity is based in the following
a)Water temperature:7°C (inlet)/12°C (outlet) b)Air entering condition:27°C DB/19.5°C WB
2.Heating capacity is based on the following:
a)Water temperature:60°C (inlet) /same water flow as in standard rating condition in cooling (outlet) b)Air entering condition:21°C DB

Dimensions

Suspended type



(unit:mm)

MKS/G-H		02D	03D	04D	05D	06D	07D	08D	09D	10D	12D	15D
dimensions	L	750	830	830	830	830	830	830	920	920	920	1000
	W	870	1020	1300	1390	1590	1590	1700	1700	1940	1940	2240
	H	555	605	605	605	605	705	705	755	755	860	905
Lifting hole dimensions	A	680	760	760	760	760	760	760	850	850	850	930
	B	962	1112	1392	1482	1682	1682	1792	1792	2032	2032	2332
C	S	66	66	66	66	66	66	66	66	66	66	66
	H	71	71	71	71	71	66	66	66	66	66	66
	D	25	25	25	25	25	25	25	25	25	25	25
Inlet flange	E	452	499	499	499	499	599	599	649	649	754	797
	F	823	973	1253	1343	1543	1543	1653	1653	1893	1893	2193
G		170	201	201	201	201	254	254	252	252	357	339
S		152	204	164	164	155	151	198	235	198.5	198.5	439.5
J		195	245	245	280	280	396	396	447	447	545	620
K		/	/	172	172	232	252	252	234	314	312	282
Outlet flange	M	271	310	244	244	310	343	343	319	405	407	385
	N	238	274	274	274	274	301	301	351	351	353	416
P		158	158	158	158	158	158	158	158	158	158	158
Q		70	70	70	70	70	70	70	70	70	70	70
R	S	101	101	101	101	101	105	105	105	105	105	105
	H	114	114	114	114	114	105	105	105	105	105	105
Diameter of connection pipe X	S	DN40	DN40	DN40	DN40	DN40	DN40	DN50	DN50	DN50	DN50	DN50
	H	DN40	DN40	DN40	DN40	DN40	DN40	DN50	DN50	DN50	DN50	DN50

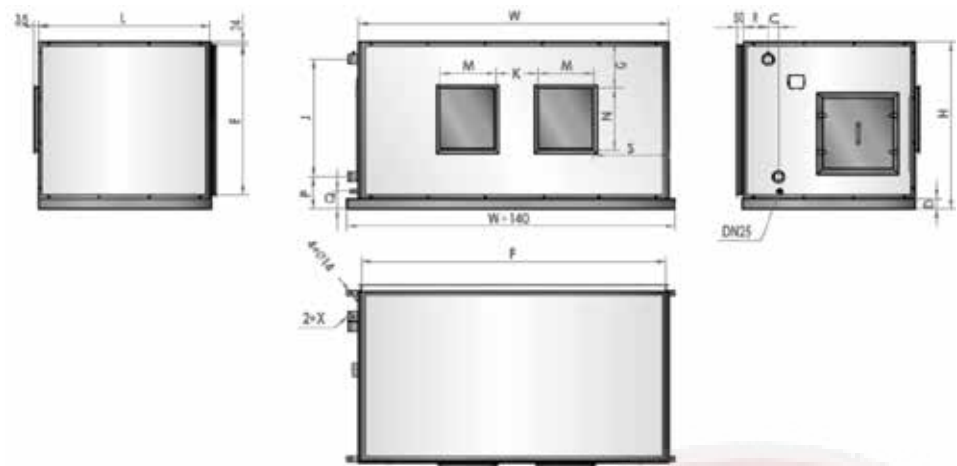
Vertical type

Fresh air condition

Model	Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	External total pressure	External static pressure	Fan motor input	Water pressure drop	Chilled water pipe	Cooling water pipe	Sound level	Net weight	dimensions	Package dimension	Power supply
	m³/h	kW	kW	L/s	Pa	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
MKS03LSY/D-H MKS03LSZ/D-H	3000	32.0	35.6	1.53	120	52	0.75	45.98	40		57.1	130	1010×580 ×1100	1260×730 ×1290	
MKS03LHY/D-H MKS03LHZ/D-H		42.5	49.4	2.03	120	52	0.75	47.12	40	25	57.5	140			
MKS04LSY/D-H MKS04LSZ/D-H	4000	45.5	46.0	2.17	160	79	1.1	43.05	40		58.2	150	1050×580 ×1250	1300×730 ×1440	
MKS04LHY/D-H MKS04LHZ/D-H		56.7	65.9	2.71	160	79	1.1	50.72	40	25	60.3	162			
MKS05LSY/D-H MKS05LSZ/D-H	5000	57.1	72.6	2.73	160	96	1.1	61.24	40		60.5	170	1110×630 ×1420	1360×780 ×1610	
MKS05LHY/D-H MKS05LHZ/D-H		70.9	82.4	3.39	160	96	1.5	58.2	40	25	61.2	185			
MKS06LSY/D-H MKS06LSZ/D-H	6000	64.9	84.0	3.10	160	68	1.5	46.7	40		61.4	190	1200×630 ×1470	1450×780 ×1660	
MKS06LHY/D-H MKS06LHZ/D-H		84.5	97.0	4.04	160	68	1.5	62.11	40	25	61.9	210			
MKS08LSY/D-H MKS08LSZ/D-H	8000	87.6	112.0	4.19	200	118	2.2	73.3	50		63.2	230	1350×740 ×1650	1600×890 ×1840	380V-3- 50Hz
MKS08LHY/D-H MKS08LHZ/D-H		113.0	132.0	5.40	200	118	2.2	45.7	50	25	63.6	255			
MKS10LSY/D-H MKS10LSZ/D-H	10000	113.0	140.0	5.40	240	112	3.0	79.54	50		64.5	250	1410×740 ×1800	1660×890 ×1990	
MKS10LHY/D-H MKS10LHZ/D-H		141.0	165.0	6.74	240	112	3.0	69.06	50	25	65.4	290			
MKS15LSY/D-H MKS15LSZ/D-H	15000	170.0	210.0	8.12	240	125	5.5	73.88	50		67.6	360	1940×740 ×1880	2190×960 ×2070	
MKS15LHY/D-H MKS15LHZ/D-H		213.0	247.0	10.18	240	125	5.5	76.15	50	25	68.4	410			
MKS20LSY/D-H MKS20LSZ/D-H	20000	222.0	280.0	10.61	280	152	7.5	69.67	50		70.5	480	2300×860 ×2305	2550×1080 ×2485	
MKS20LHY/D-H MKS20LHZ/D-H		279.0	323.0	13.33	280	152	7.5	65.5	50	25	71.2	540			
MKS25LSY/D-H MKS25LSZ/D-H	25000	279.0	350.0	13.33	320	218	7.5	71.29	65		70.7	620	2700×960 ×2570	2950×1180 ×2760	
MKS25LHY/D-H MKS25LHZ/D-H		350.0	404.0	16.72	320	218	7.5	83.47	65	25	71.3	680			

1.Cooling capacity is based in the following:
a)Water temperature:7°C (inlet)/12°C (outlet) b)Air entering condition:35°C DB/28°C WB
2.Heating capacity is based on the following:
a)Water temperature:60°C (inlet) /same water flow as in standard rating condition in cooling (outlet) b)Air entering condition:7°C DB

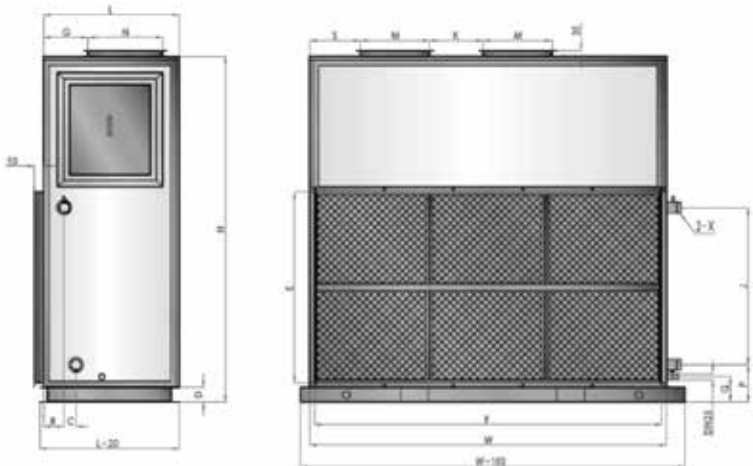
Horizontal type



(unit:mm)								
MKS/D		05W	06W	08W	10W	15W	20W	25W
dimensions	L	1120	1120	1170	1200	1220	1350	1400
	W	1100	1200	1450	1650	1940	2240	2590
	H	840	840	945	965	1195	1630	1835
C	S	66	66	74	74	74	84	84
	H	71	71	66	66	93	100	100
D		25	25	25	25	25	80	80
Inlet flange	E	762	762	865	890	1115	1500	1705
	F	1050	1140	1390	1600	1880	2193	2543
J	S	469	469	599	599	853	1170	1473
	H	/	/	/	/	/	1270	1473
K		/	/	/	/	282	335	446
Outlet flange	M	405	405	482	482	384	440	567
	N	350	350	414	414	415	488	488
G		135	175	193	212	442	656	856
S		185	227	310	584	233	318	272
P		167	167	167	167	167	218	218
Q		76	76	76	76	76	131	131
R	S	156	156	156	156	156	162	184
	H	/	/	/	/	/	135	152
Diameter of connection pipe	S	DN40	DN40	DN50	DN50	DN50	DN65	DN65
	H	DN40	DN40	DN50	DN50	DN65	DN65	DN80

Note: 2x represents two coils

Vertical type



(unit:mm)										
MKS/D		03L	04L	05L	06L	08L	10L	15L	20L	25L
dimensions	L	580	580	630	630	740	740	740	860	960
	W	1010	1050	1110	1200	1350	1410	1940	2300	2700
	H	1100	1250	1420	1470	1650	1800	1880	2305	2570
C	S	66	66	66	66	66	74	74	74	84
	H	71	71	71	71	66	66	66	87	92
D		50	50	50	50	50	50	80	80	80
Inlet flange	E	474	575	677	728	830	928	1038	1250	1450
	F	/	/	/	/	/	/	/	1350	1500
J	S	960	1000	1060	1150	1300	1360	1890	2253	2653
	H	277	403	487	529	659	804	855	1060	1274
K		/	/	/	/	/	/	/	1167	1325
Outlet flange	M	/	/	/	/	/	/	282	373	448
	N	309	342	405	405	482	482	384	482	488
G		273	300	350	350	414	414	415	414	309
S		188	202	206	206	249	249	233	247	309
P		212	208	163	222	307	347	176	220	258
Q		159	161	160	169	161	168	203	203	213
R	S	101	101	101	101	101	101	131	134	134
	H	106	106	106	106	106	106	111	102	102
Diameter of connection pipe	S	DN40	DN40	DN40	DN40	DN50	DN50	DN50	DN50	DN65
	H	DN40	DN40	DN40	DN40	DN50	DN50	DN50	DN50	DN65

Note: 2x represents two coils

Options

Customizable ESP

Suspended type

Model	Air volume (m3/h)	No. of cooling coil rows	Motor power(kW) corresponding to external total pressure								
			80	120	160	200	240	280	320	370	420
MKS02DHY/G-H	2000	6(H)	0.37	0.55	0.55	0.55	0.75	0.75	/	/	/
MKS02DHZ/G-H		6(H)	0.37	0.55	0.55	0.55	0.75	0.75	/	/	/
MKS03DSY/G-H	3000	4(S)	0.55	0.55	0.55	0.75	0.75	0.75	/	/	/
MKS03DHY/G-H		6(H)	0.55	0.55	0.75	0.75	0.75	1.1	/	/	/
MKS04DSY/G-H	4000	4(S)	0.75	0.75	0.75	1.1	1.1	1.1	/	/	/
MKS04DHY/G-H		6(H)	0.75	1.1	1.1	1.1	1.1	1.1	/	/	/
MKS05DSY/G-H	5000	4(S)	1.1	1.1	1.5	1.5	1.5	1.5	/	/	/
MKS05DHY/G-H		6(H)	1.5	1.5	1.5	1.5	1.5	2.2	/	/	/
MKS06DSY/G-H	6000	4(S)	/	1.1	1.5	1.5	1.5	1.5	2.2	/	/
MKS06DHY/G-H		6(H)	/	1.5	1.5	1.5	1.5	2.2	2.2	/	/
MKS07DSY/G-H	7000	3(S)	/	1.1	1.1	1.1	1.5	1.5	2.2	/	/
MKS07DHY/G-H		4(H)	/	1.1	1.5	1.5	1.5	2.2	2.2	/	/
MKS08DSY/G-H	8000	3(S)	/	/	1.5	1.5	1.5	2.2	2.2	/	/
MKS08DHY/G-H		4(H)	/	1.5	1.5	2.2	2.2	2.2	2.2	/	/
MKS09DSY/G-H	9000	3(S)	/	/	2.2	2.2	2.2	2.2	2.2	3	/
MKS10DHY/G-H		4(H)	/	/	2.2	2.2	2.2	2.2	3	3	/
MKS10DSY/G-H	10000	3(S)	/	/	2.2	2.2	2.2	3	3	3	/
MKS10DHY/G-H		4(H)	/	/	2.2	2.2	3	3	3	3	/
MKS12DSY/G-H	12000	3(S)	/	/	3	3	3	3	4	4	/
MKS12DHY/G-H		4(H)	/	/	3	3	3	4	4	4	/
MKS15DSY/G-H	15000	3(S)	/	/	/	4	4	4	4	5.5	5.5
MKS15DHY/G-H		4(H)	/	/	/	4	4	4	5.5	5.5	5.5

Note:
1. "/" represents the standard external static pressure that has not been configured and needs to be customized.
2. The power supply is 380V/3Ph/50Hz.
3. The above external static pressure is the actual testing data of our company. Users must verify the actual pressure of the air duct when making the selection.

Horizontal type

Model	Air volume m3/h	Rows of cooling coil	Motor power(kW) corresponding to external total pressure													
			120	160	200	240	280	320	370	420	470	520	570	620	670	720
MKS05WSY/D-H MKS05WSZ/D-H	5000	4(S)	1.1	1.1	1.1	1.5	1.5	1.5	/	/	/	/	/	/	/	/
MKS05WHY/D-H MKS05WHZ/D-H		6(H)	1.1	1.1	1.5	1.5	1.5	1.5	/	/	/	/	/	/	/	/
MKS06WSY/D-H MKS06WSZ/D-H	6000	4(S)	1.5	1.5	1.5	1.5	2.2	2.2	/	/	/	/	/	/	/	/
MKS06WHY/D-H MKS06WHZ/D-H		6(H)	1.5	1.5	1.5	2.2	2.2	2.2	/	/	/	/	/	/	/	/
MKS08WSY/D-H MKS08WSZ/D-H	8000	3(S)	1.5	1.5	1.5	2.2	2.2	2.2	/	/	/	/	/	/	/	/
MKS08WHY/D-H MKS08WHZ/D-H		4(H)	1.5	2.2	2.2	2.2	2.2	/	/	/	/	/	/	/	/	/
MKS10WSY/D-H MKS10WSZ/D-H	10000	3(S)	/	/	3	3	3	3	/	/	/	/	/	/	/	/
MKS10WHY/D-H MKS10WHZ/D-H		4(H)	/	/	3	3	3	/	/	/	/	/	/	/	/	/
MKS15WSY/D-H MKS15WSZ/D-H	15000	3(S)	/	/	4	4	4	4	5.5	5.5	/	/	/	/	/	/
MKS15WHY/D-H MKS15WHZ/D-H		4(H)	/	/	4	4	5.5	5.5	5.5	5.5	/	/	/	/	/	/
MKS20WSY/D-H MKS20WSZ/D-H	20000	3(S)	/	/	/	/	5.5	7.5	7.5	7.5	7.5	/	/	/	/	/
MKS20WHY/D-H MKS20WHZ/D-H		4(H)	/	/	/	/	7.5	7.5	7.5	7.5	7.5	/	/	/	/	/
MKS25WSY/D-H MKS25WSZ/D-H	25000	3(S)	/	/	/	/	/	/	5.5	7.5	7.5	7.5	7.5	/	/	/
MKS25WHY/D-H MKS25WHZ/D-H		4(H)	/	/	/	/	/	/	7.5	7.5	7.5	7.5	/	/	/	/

Note:
1. "/" represents the standard external static pressure that has not been configured and needs to be customized.
2. The power supply is 380V/3Ph/50Hz.
3. The above external static pressure is the actual testing data of our company. Users must verify the actual pressure of the air duct when making the selection.

Options

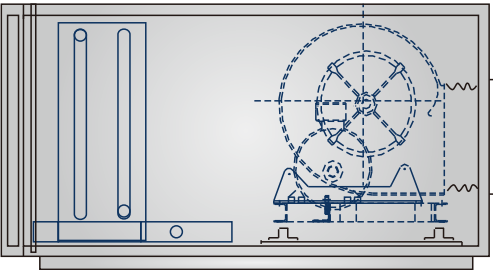
Vertical type

Model	Air volume m3/h	No. of cooling coil rows	Motor power(kW) corresponding to external total pressure											
			80	120	160	200	240	280	320	370	420	470	520	570
MKS03LSY/D-H MKS03LSZ/D-H	3000	4(S)	0.75	0.75	0.75	0.75	1.1	1.1	/	/	/	/	/	/
MKS03LHY/D-H MKS03LHZ/D-H		6(H)	0.75	0.75	1.1	1.1	1.1	1.1	/	/	/	/	/	/
MKS04LSY/D-H MKS04LSZ/D-H	4000	4(S)	/	1.1	1.1	1.1	1.1	1.1	1.5	/	/	/	/	/
MKS04LHY/D-H MKS04LHZ/D-H		6(H)	/	1.1	1.1	1.1	1.1	1.5	1.5	/	/	/	/	/
MKS05LSY/D-H MKS05LSZ/D-H	5000	4(S)	/	1.1	1.1	1.5	1.5	1.5	1.5	/	/	/	/	/
MKS05LHY/D-H MKS05LHZ/D-H		6(H)	/	1.1	1.5	1.5	1.5	1.5	2.2	/	/	/	/	/
MKS06LSY/D-H MKS06LSZ/D-H	6000	4(S)	/	1.5	1.5	1.5	2.2	2.2	2.2	/	/	/	/	/
MKS06LHY/D-H MKS06LHZ/D-H		6(H)	/	1.5	1.5	1.5	2.2	2.2	2.2	/	/	/	/	/
MKS08LSY/D-H MKS08LSZ/D-H	8000	3(S)	/	/	2.2	2.2	2.2	2.2	3	3	/	/	/	/
MKS08LHY/D-H MKS08LHZ/D-H		4(H)	/	/	2.2	2.2	2.2	3	3	3	/	/	/	/
MKS10LSY/D-H MKS10LSZ/D-H	10000	3(S)	/	/	/	3	3	3	3	4	4	/	/	/
MKS10LHY/D-H MKS10LHZ/D-H		3(H)	/	/	/	3	3	4	4	4	4	/	/	/
MKS15LSY/D-H MKS15LSZ/D-H	15000	3(S)	/	/	/	5.5	5.5	5.5	5.5	7.5	/	/	/	/
MKS15LHY/D-H MKS15LHZ/D-H		4(H)	/	/	/	5.5	5.5	5.5	7.5	/	/	/	/	/
MKS20LSY/D-H MKS20LSZ/D-H	20000	3(S)	/	/	/	/	7.5	7.5	7.5	7.5	7.5	/	/	/
MKS20LHY/D-H MKS20LHZ/D-H		4(H)	/	/	/	/	7.5	7.5	7.5	7.5	/	/	/	/
MKS25LSY/D-H MKS25LSZ/D-H	25000	3(S)	/	/	/	/	/	7.5	7.5	7.5	11	11	11	/
MKS25LHY/D-H MKS25LHZ/D-H		4(H)	/	/	/	/	/	7.5	7.5	11	11	11	11	/

Note:
1. "/" represents the standard external static pressure that has not been configured and needs to be customized.
2. The power supply is 380V/3Ph/50Hz.
3. The above external static pressure is the actual testing data of our company. Users must verify the actual pressure of the air duct when making the selection.

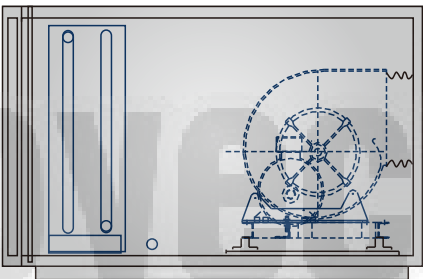
Air Outlet Directions

Suspended type

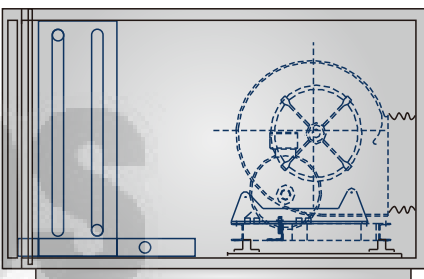


Lower front

Horizontal type

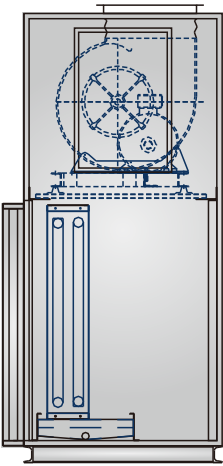


Upper front

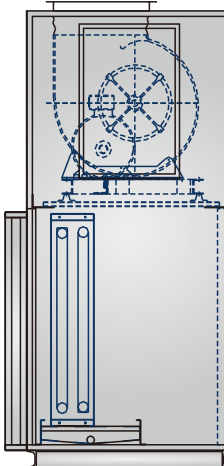


Lower front

Vertical type



Upper front



Rear front

Customizable Components

Name		Standard	Customized
Fan total pressure/	Thickness	25mm (horizontal, vertical); 30mm (suspended)	50mm
Panel	Inner Skin	0.5mm, Galvanized Steel	Galvanized Steel (Thickness: 0.5/0.7/1.0); Stainless Steel (Thickness:0.5/0.7/1.0), Pre-coated Steel (Thickness:0.5/0.7/1.0)
	Outer Skin	0.5mm, Pre-coated Steel	Pre-coated Steel (Thickness:0.5/0.7/1.0), Stainless Steel (Thickness:0.5/0.7/1.0)
Coil	Fin Material	Aluminium	Hydrophilic Aluminium
	Header Material	Seamless Steel Tube	Copper Tube
	Coil Frame	GI	SUS304
	Has Moisture Eliminator	AL Moisture Eliminator	SUS304 Moisture Eliminator
	Number of Rows	3/4/6 Rows	/
	Tube Size	1/2 inch (≤15000CMH), 3/8 inch (> 15000CMH)	/
	Drain Pan Material	GL Spray	SUS304
Motor	Connection Type	Male Threaded	With Flange
	Motor Brand	WoLong	Siemens
	Frequency Type	Single Speed	Variable Frequency Motor, Explosion-Proof Motor, Double speed motor
	Efficiency	IE3	IE4
Fan	Accessories	/	Belt guard, Winding protection, NSK/SKF bearing, Moisture-proof heating belt Yilida/ KRUGER
	Blower Brand	Langdi	
	Blade Type	Forward Curved	/
	Discharge	Suspended: FB; Horizontal: FT; Vertical: UF	/
Humidifier	Accessories	/	NSK/SKF bearing, Pressure differential gauge, Pressure differential switch, Activation Box Evaporative Humidifier
	Humidifier Type	/	
Filter	Filter Brand	G2 nylon plate	G2 AL plate, G3/G4/F5 plate filter
	Filter Frame	AL	/
	Frame Materia	Galvanized Steel	stainless Steel
controller	General customization	/	Direct On line Starter, Y-Delta Starter, Inverter Starter
	Non-standard custom	/	Modbus, BMS, etc.



Motor



Coil



Air filter



Humidifier



Service Lamp



UV germicidal lamp

Selection

Selection procedures

● Step 1:
Determine the airflow (m3/h), inlet air condition, total cooling capacity (kW), or total heating capacity (kW). If the inlet air condition is beyond the standard condition of the above parameters, please use the following formula:

$Q=F1\times F2\times F3\times Q0$

Note:

Q0—cooling capacity of standard cooling condition, refer to the unit specifications;

F1—temperature correction coefficient of cooling coil, refer to table A;

F2—temperature difference correction coefficient of water, refer to figure 1;

F3—water velocity correction coefficient, refer to figure 2

Table A Temperature correction coefficient of cooling coil F1

EWB	EWT	Entering water temperature °C						
		4	5	6	7	8	9	10
Entering air WB temperature °C	17	0.978	0.890	0.801	0.711	0.626	0.523	0.423
	18	1.093	1.001	0.915	0.823	0.731	0.635	0.538
	19	1.213	1.124	1.032	0.940	0.846	0.750	0.652
	19.5	1.274	1.184	1.093	1.000	0.906	0.809	0.711
	20	1.337	1.246	1.155	1.061	0.967	0.869	0.770
	21	1.464	1.373	1.281	1.186	1.090	0.993	0.893
	22	1.597	1.504	1.411	1.316	1.219	1.121	1.020
	23	1.733	1.641	1.547	1.450	1.352	1.252	1.151
	24	1.874	1.781	1.685	1.589	1.490	1.389	1.287
	26	2.172	2.076	1.978	1.879	1.779	1.676	1.571
	28	2.489	2.391	2.291	2.189	2.086	1.981	1.874
	30	2.824	2.725	2.623	2.519	2.414	2.306	2.196

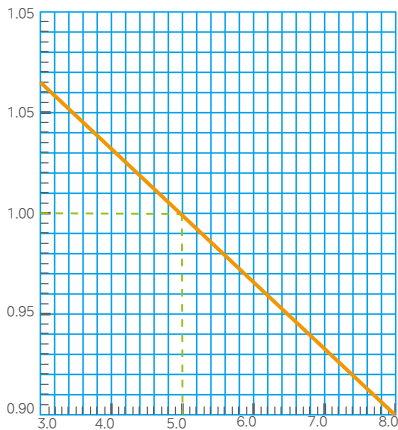


Figure 1 Temperature difference correction coefficient of water F2

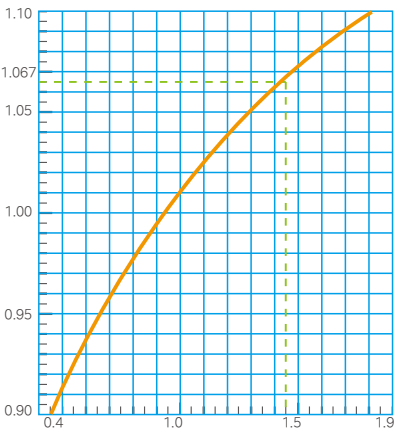


Figure 2 Water velocity correction coefficient F3

● Step 2:
Determine the external static pressure (Pa). If the ESP is beyond the standard value of the above specifications, please indicate the required ESP when you place take the order. Refer to Table B on the following page to estimate the air pressure in the duct.

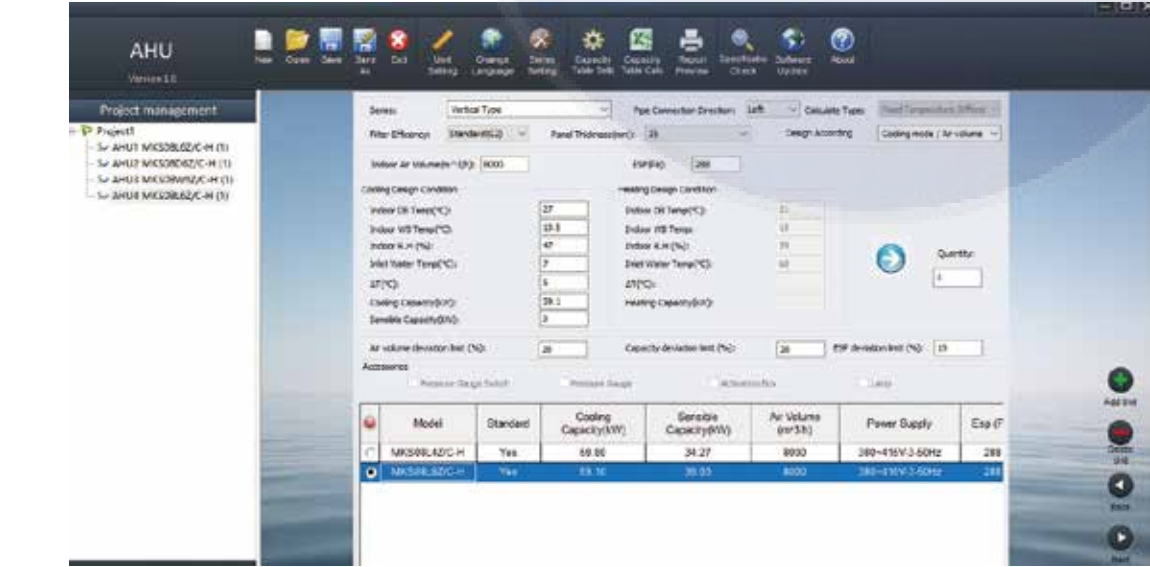
Table B Air resistance of duct

Air speed(m/s)	Total air pressure of the duct (Pto)				
	On-way resistance (Pa/m)	Local resistance (Pa/pce)			
	Straight pipe	Damper	Diffuser	Bend	Plenum
10	1.35	30	20(air outlet speed ≤5m/s)	30	20
9	1	25		25	18
8	0.7	20		20	15
7	0.55	15		15	12
6	0.4	12		12	10

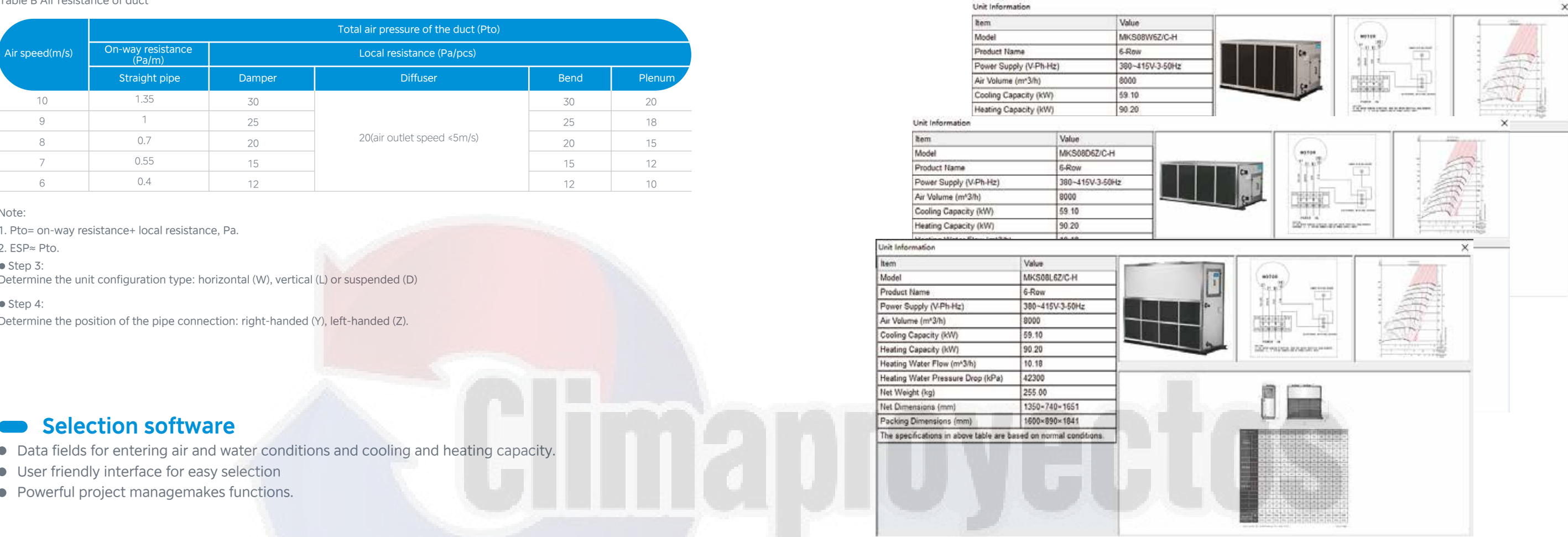
- Note:
1. Pto= on-way resistance+ local resistance, Pa.
 2. ESP≈ Pto.
- Step 3:
Determine the unit configuration type: horizontal (W), vertical (L) or suspended (D)
 - Step 4:
Determine the position of the pipe connection: right-handed (Y), left-handed (Z).

Selection software

- Data fields for entering air and water conditions and cooling and heating capacity.
- User friendly interface for easy selection
- Powerful project managemakes functions.



Main interface



Report output

