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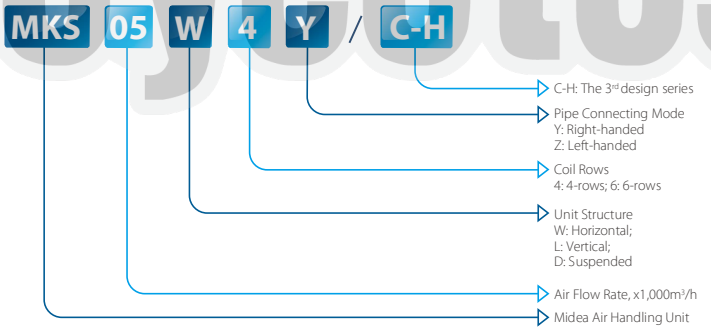
Air Handling Unit

Air Handling Unit (AHU) is the primary equipment in an air system of central air conditioning system. It handles and conditions the air and distributes it to various conditioned spaces. Midea air handling units (AHUs) have been designed and manufactured to meet the requirements of all kinds of space cooling and heating, such as office buildings, shopping malls, exhibition halls, airports, railway stations, hotels, factories and any other central air-conditioning systems.

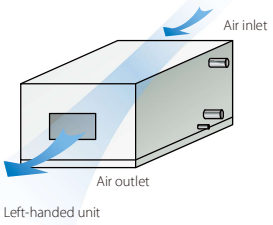
Midea AHUs have been widely used in many parts of the world. Now, the 3rd generation AHU has been launched to provide you with more comfort and convenience. It adapts unitary structure design, more outstanding cold-bridge free performance, lower air leakage and more elegant appearance. There are 3 types - suspended type, horizontal type and vertical type, including 66 standard models, and the air flow rate is available from 2,000m³/h to 40,000m³/h. Different external static pressure (ESP) can be customized to meet different kinds of applications.

Nomenclature



Orientation

Unit handling orientation is determined by location of pipe connection while facing unit in the direction of air flow. The unit below is left-handed connection unit, otherwise is right-handed connection unit.



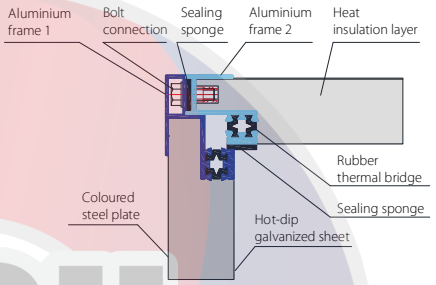
Features

High strength, high reliability

Panels are double-skin with injection of high density polyurethane. The panel frame adopts the composite profile structure patent, the built-in high-strength aluminum profile makes the box body stronger, and the mechanical strength of the box that fulfils the requirements in European EN1886, Class 2 and above.

Outstanding cold-bridge free structure

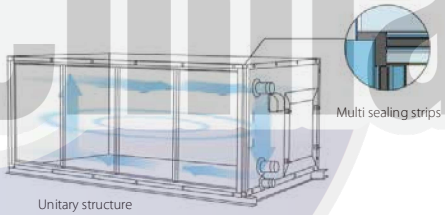
The density of polyurethane injection is 50kg /m^3 (thermal conductivity factor K≤0.0224W/m^2·K). Unit cabinet is constructed by panels with male and female aluminum alloy cards and sealing strip. The service door (or service panel) is plastic-steel frame with polyurethane injection panel and rubber sealing strip.



Low air leakage rate

Double skin panel, unitary structure design, less connecting joints, multi sealing strips in the contact surfaces, around sealing service door/ panel, all ensure almost total air can be supplied to the air-conditioned room. The air leakage rate is less than 0.29%. Units will not sweat when exterior room temperature is 27°C, relative humidity is 90%.

- Simple structural components
- Less at-site work

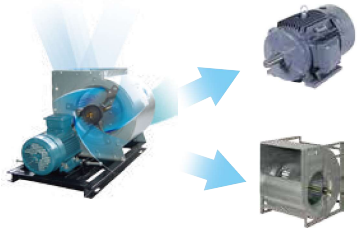


High performance heat exchanger

- 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.

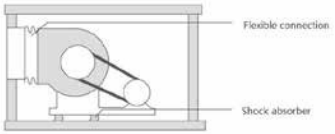
Stable air supply fan assembly

- 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

- Optimal fan selection, excellent working condition, efficient operation.
- Flexible connection at air outlet, minimizes vibration transmision.
- Equip with shock absorbers, decreases vibration, low noise. Tighten cabinet, secure against noise leakage.



Improved indoor air quality

- Aluminum alloy frame plate type filter, stable and durable.
- Cover the whole return air inlet, large filter surface, higher inlet air quality.
- Filter can be extracted in leftward and rightward way, easy for maintenance.

State-of-the-art design

The outer skin is colored steel sheet with anti-corrosion coat and is cleanable; the fastening bolts are concealed by plastic caps. The outer layer of film prevents panels from scratching during unit assembling and transportation. Clear, smooth and color coordination appearance make the outlook attractive.

Wide usage

- Three structure design: horizontal type, vertical type and suspended type.
- Two pipe connecting mode: right-handed and left handed.
- Air flow rate ranging from 2,000m^3/h to 40,000m^3/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

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Mechanical specifications

Base frame

Unit sections are mounted on galvanized steel or channel steel base frame for easy shipment and handling. The frames provide holes for section connection, and holes for fork-lift truck. Guard rail cross the bottom in the holes prevents unit damage.
The base frame can be used in lieu of concrete plinths or other additional bases that are used on site. However, for high static pressure application, additional concrete plinths or other additional bases are required at site to raise the AHU for drain pan's U-trap.

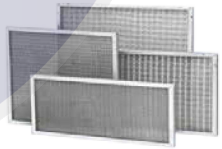
Double skin panel

Standard panels are 25mm thick double skin type with injected polyurethane foam insulation. The outer skin is anti-corrosion color-coated steel sheet with a layer of film and the inner skin is galvanized steel sheet .
The panel insulation is moistureproof and anti-corrosive. The insulation material is totally enclosed in the panel to avoid any possibility of insulation being exposed to air stream.

Coil

Coil used in Midea AHU is AHRI certified. It consists of copper tubes and aluminum fins. The fins are sine-wave design with slits for better heat transfer efficiency and moisture carrying capacity. Coil is leak tested at 1.6MPa in the factory.
Coil is mounted over a drain pan. The coil rests on U-shaped supporter locating over the drain pan. The drain pan extends beyond the leaving side of the coil to recover condensate water. Coil connections always extend through out of the unit cabinet, allowing for easy connection of valves and piping. Air discharge valve is on the top of water outlet pipe and is located outside the cabinet.

Filter



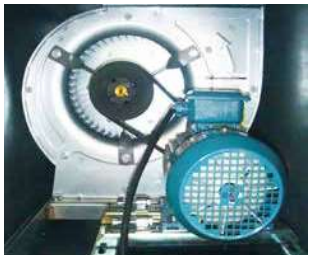
Filter is aluminum alloy frame structure. Primary efficiency plate type filter is designed as standard. The structure of filters are stable firm, have high strength and intensity and are easy to replace or clean. Filter can be unloaded and loaded from both left and right side.

Drain pan

The cooling coil is installed on reversed U-shaped support plate. Standard galvanized drain pan is coated to inhibit the growth of algae and fungi. 10mm insulation is provided between the drain pan and the bottom panel. Stainless steel drain pan is optional.

Fan and motor assembly

The fan is made of high grade hot galvanized steel sheet. It is designed to a special configuration according to aerodynamics. It is coated in order to be anti-corrosive . Fan connection is isolated from unit casing by a flexible canvas duct mounted at fan discharge outlet. Fan and motor assembly is internally isolated from unit casing with rubber pad, furnished and installed in the factory.
Motors are mounted on slide rails with provision for V-belt tensioning. Motor can be moved freely in four directions to reach the correct point. Installation and maintenance of motor, belt and pulley are time saving jobs. Fan and motor assembly is mounted on a rigid base frame which is supported by effective rubber shock absorber. Discharge fan is provided with a fire retardant flexible connection.



Fan and motor assembly

Access panel

Inside

Outside

Access panel is double skins with injected polyurethane foam insulation. The outer skin is anti-corrosion coated steel sheet, the inner skin is galvanized steel sheet. The polyurethane foam insulation is heat resistant and totally enclosed. 4 hinges are used to fixed the access panel, convenient for installation and maintenance. A durable rubber seal is around the panel's frame and a 10mm thick insulation seal is sticked around the back side frame of the panel to prevent air leakage.

Air dampers

Air dampers in AHUs are optional. Aerodynamically designed damper blades have built in high quality bearings. Blade edges are lined with sealing strip to restrict leakage to an absolute minimum. Air damper blades are either linked to give parallel turning operation or gear set to give opposing direction. The dampers are tested to yield linear control characteristic.

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Specifications

Suspended type

● Return air condition

Model		Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	External static pressure	Fan motor input	Water pressure drop	Chilled water pipe	Drain pipe	Sound level	Net weight	Net dimension	Package dimension	Power upply
MKSxxxY(orZ)/C-H		m³/h	kW	kW	L/s	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
02D	4	2000	11.2	18.6	0.54	67	0.37	19	40	25	58.0	90	870×750×555	1066×914×702	380~415V -3-50Hz
	6		14.6	22.6	0.70	227	0.75	32	40		58.9	95			
03D	4	3000	17.1	26.7	0.82	52	0.55	35	40	25	58.0	120	1020×830×605	1216×994×752	
	6		22.0	33.8	1.05	212	0.75	57	40		58.1	125			
04D	4	4000	22.8	39.9	1.09	70	0.75	52	40	25	60.0	145	1300×830×605	1496×994×752	
	6		29.3	45.1	1.40	230	1.10	62	40		61.9	155			
05D	4	5000	28.5	47.5	1.36	42	1.10	20	40	25	62.0	160	1390×830×605	1586×994×752	
	6		36.6	56.4	1.75	202	1.50	40	40		63.0	170			
06D	4	6000	34.1	57.5	1.63	92	1.10	25	40	25	62.0	180	1590×830×605	1786×994×752	
	6		44.1	67.7	2.11	252	2.20	54	40		63.3	190			
07D	4	7000	39.1	66.0	1.90	98	1.10	44	40	25	64.0	190	1590×830×705	1786×994×852	
	6		51.7	79.0	2.47	258	2.20	61	40		65.4	205			
08D	4	8000	45.5	73.1	2.17	79	1.50	31	50	25	64.0	205	1700×830×705	1896×994×852	
	6		59.1	90.2	2.82	239	2.20	42	50		65.5	220			
09D	4	9000	51.2	83.0	2.45	116	2.20	34	50	25	66.0	235	1700×920×755	1896×1084×902	
	6		67.1	100.8	3.21	286	3.00	59	50		67.0	250			
10D	4	10000	58.9	99.3	2.81	136	2.20	30	50	25	66.0	260	1940×920×755	2136×1084×902	
	6		74.6	112.0	3.56	306	3.00	58	50		67.8	280			
12D	4	12000	68.3	113.5	3.26	108	3.00	52	50	25	68.0	270	1940×920×860	2136×1084×1007	
	6		85.6	135.2	4.09	278	4.00	57	50		69.6	290			
15D	4	15000	85.3	142.1	4.08	125	4.00	36	50	25	70.0	350	2240×1000×905	2436×1164×1052	
	6		107.0	169.0	5.11	305	5.50	33	50		71.8	380			

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

● Fresh air condition

Model		Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	External static pressure	Fan motor input	Water pressure drop	Chilled water pipe	Drain pipe	Sound level	Net weight	Net dimension	Package dimension	Power upply
MKSxxxY(orZ)/C-H		m³/h	kW	kW	L/s	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
02D	4	2000	23.5	27.3	1.12	67	0.37	38	40	25	58.0	90	870×750×555	1066×914×702	380~415V -3-50Hz
	6		28.4	33.0	1.35	227	0.75	54	40		58.9	95			
03D	4	3000	32.0	35.6	1.53	52	0.55	55	40	25	58.0	120	1020×830×605	1216×994×752	
	6		42.5	49.4	2.03	212	0.75	77	40		58.1	125			
04D	4	4000	45.5	52.0	2.17	70	0.75	52	40	25	60.0	145	1300×830×605	1496×994×752	
	6		56.7	65.9	2.71	230	1.10	58	40		61.9	155			
05D	4	5000	57.1	72.6	2.73	42	1.10	61	40	25	62.0	160	1390×830×605	1586×994×752	
	6		70.9	82.4	3.39	202	1.50	58	40		63.0	170			
06D	4	6000	64.9	84.0	3.10	92	1.10	37	40	25	62.0	180	1590×830×605	1786×994×752	
	6		84.5	97.0	4.04	252	2.20	62	40		63.3	190			
07D	4	7000	83.8	97.2	4.00	98	1.10	36	40	25	64.0	190	1590×830×705	1786×994×852	
	6		98.9	115.5	4.72	258	2.20	59	40		65.4	205			
08D	4	8000	87.6	112.0	4.19	79	1.50	73	50	25	64.0	205	1700×830×705	1896×994×852	
	6		113.0	132.0	5.40	239	2.20	46	50		65.5	220			
09D	4	9000	106.1	123.1	5.07	116	2.20	39	50	25	66.0	235	1700×920×755	1896×1084×902	
	6		126.9	148.5	6.06	286	3.00	46	50		67.0	250			
10D	4	10000	113.0	140.0	5.40	136	2.20	79	50	25	66.0	260	1940×920×755	2136×1084×902	
	6		141.0	165.0	6.74	306	3.00	69	50		67.8	280			
12D	4	12000	139.1	161.4	6.65	108	3.00	41	50	25	68.0	270	1940×920×860	2136×1084×1007	
	6		170.4	197.6	8.14	278	4.00	57	50		69.6	290			
15D	4	15000	170.0	210.0	8.12	125	4.00	73	50	25	70.0	350	2240×1000×905	2436×1164×1052	
	6		213.0	247.0	10.18	305	5.50	76	50		71.8	380			

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

Horizontal type

● Return air condition

Model		Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	External static pressure	Fan motor input	Water pressure drop	Chilled water pipe	Drain pipe	Sound level	Net weight	Net dimension	Package dimension	Power supply
MKSxxxY(orZ)/C-H		m³/h	kW	kW	L/s	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
05W	4	5000	28.3	47.5	1.35	96	1.1	20.2	40	25	59.5	190	1100×1120×840	1294×1264×980	380~415V-3-50Hz
	6		36.6	56.4	1.75	256	1.5	39.5	40		61.2	230			
06W	4	6000	34.6	58.8	1.65	68	1.1	25	40	25	60.3	210	1200×1120×840	1394×1264×980	
	6		44.1	67.7	2.11	228	2.2	54	40		61.4	270			
08W	4	8000	50.8	73.1	2.43	78	1.5	30.7	50	25	63.1	250	1450×1170×945	1646×1314×1092	
	6		59.1	90.2	2.82	198	2.2	42.3	50		63.5	273			
10W	4	10000	63.2	91.3	3.02	112	3	30	50	25	63.5	300	1650×1200×965	1864×1344×1112	
	6		74.6	112	3.56	152	3	58	50		65.2	325			
15W	4	15000	91	131.3	4.35	125	4	35.5	50	25	66.1	390	1940×1220×1195	2134×1364×1338	
	6		107	169	5.11	305	5.5	33	65		68.2	480			
20W	4	20000	119.3	183.4	5.70	210	7.5	28.1	65	25	70.4	500	2440×1350×1310	2642×1502×1462	
	6		149	224	7.12	210	7.5	59	65		71.6	620			
25W	4	25000	149.3	248.9	7.13	318	7.5	34	65	25	70.2	580	2590×1400×1510	2792×1552×1662	
	6		187	279	8.93	318	7.5	64	80		71.5	685			
30W	4	30000	179.2	298.7	8.56	273	11	53.3	65	25	73.3	650	2790×1450×1580	2992×1602×1727	
	6		225	335	10.75	273	11	69	80		73.5	765			
35W	4	35000	209.1	348.4	9.99	432	2×5.5	40	2×65	25	73.8	880	2790×1880×1930	3042×2028×2082	
	6		265	391	12.66	432	2×7.5	67	2×65		74.2	950			
40W	4	40000	238.9	398.2	11.41	405	2×7.5	41.2	2×65	25	76.2	920	2790×1880×2060	3042×2028×2212	
	6		300	447	14.33	405	2×7.5	68	2×65		77.5	1150			

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

● Fresh air condition

Model		Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	External static pressure	Fan motor input	Water pressure drop	Chilled water pipe	Drain pipe	Sound level	Net weight	Net dimension	Package dimension	Power supply
MKSxxxY(orZ)/C-H		m³/h	kW	kW	L/s	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
05W	4	5000	57.1	72.6	2.70	96	1.1	61	40	25	59.5	190	1100×1120×840	1294×1264×980	380~415V-3-50Hz
	6		70.9	82.4	3.40	256	1.5	58	40		61.2	230			
06W	4	6000	64.9	84.0	3.10	68	1.1	37	40	25	60.3	210	1200×1120×840	1394×1264×980	
	6		84.5	97.0	4.00	228	2.2	62	40		61.4	270			
08W	4	8000	87.6	112.0	4.20	78	1.5	73	50	25	63.1	250	1450×1170×945	1646×1314×1092	
	6		113.0	132.0	5.40	198	2.2	46	50		63.5	273			
10W	4	10000	113.0	140.0	5.40	112	3	79	50	25	63.5	300	1650×1200×965	1864×1344×1112	
	6		141.0	165.0	6.70	152	3	69	50		65.2	325			
15W	4	15000	170.0	210.0	8.10	125	4	73	50	25	66.1	390	1940×1220×1195	2134×1364×1338	
	6		213.0	247.0	10.20	305	5.5	76	65		68.2	480			
20W	4	20000	222.0	280.0	10.60	210	7.5	69	65	25	70.4	500	2440×1350×1310	2642×1502×1462	
	6		279.0	323.0	13.30	210	7.5	66	65		71.6	620			
25W	4	25000	279.0	350.0	13.30	318	7.5	71	65	25	70.2	580	2590×1400×1510	2792×1552×1662	
	6		350.0	404.0	16.70	318	7.5	83	80		71.5	685			
30W	4	30000	322.0	412.0	15.40	273	11	36	65	25	73.3	650	2790×1450×1580	2992×1602×1727	
	6		418.0	485.0	20.00	273	11	77	80		73.5	765			
35W	4	35000	382.0	490.0	18.30	432	2×5.5	32	2*65	25	73.8	880	2790×1880×1930	3042×2028×2082	
	6		494.0	566.0	23.60	432	2×7.5	67	2*65		74.2	950			
40W	4	40000	430.0	560.0	20.50	405	2×7.5	35	2*65	25	76.2	920	2790×1880×2060	3042×2028×2212	
	6		557.0	647.0	26.60	405	2×7.5	77	2*65		77.5	1150			

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

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Vertical type

● Return air condition

Model		Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	Externa static pressurel	Fan motor input	Water pressure drop	Chilled water pipe	Cooling water pipe	Sound level	Net weight	Net dimension	Package dimension	Power supply
MKSxxxY(orZ)/C-H		m³/h	kW	kW	L/s	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
03L	4	3000	17.1	26.7	0.82	52	0.75	35	40	25	57.1	130	1010×580×1100	1260×730×1290	380~415V-3-50Hz
	6		22.0	33.8	1.05	212	1.1	57	40		57.5	140			
04L	4	4000	22.8	39.9	1.09	79	1.1	52	40	25	58.2	150	1050×580×1250	1300×730×1440	
	6		29.3	45.1	1.40	239	1.5	62	40		60.3	162			
05L	4	5000	28.3	47.5	1.40	96	1.1	20	40	25	60.5	170	1110×630×1420	1360×780×1610	
	6		36.6	56.4	1.70	256	2.2	40	40		61.2	185			
06L	4	6000	34.6	58.8	1.70	68	1.5	25	40	25	61.4	190	1200×630×1470	1450×780×1660	
	6		44.1	67.7	2.10	228	2.2	54	40		61.9	210			
08L	4	8000	50.8	73.1	2.40	118	2.2	31	40	25	63.2	230	1350×740×1650	1600×890×1840	
	6		59.1	90.2	2.80	288	3.0	42	40		63.6	255			
10L	4	10000	58.9	99.3	2.81	112	3.0	30	50	25	64.5	250	1410×740×1800	1660×890×1990	
	6		74.6	112.0	3.60	292	4.0	58	50		65.4	290			
15L	4	15000	91	131.3	4.30	125	5.5	36	50	25	67.6	360	1940×740×1880	2190×960×2070	
	6		107.0	169.0	5.10	205	5.5	33	50		68.4	410			
20L	4	20000	113.7	183.4	5.4	152	7.5	28	50	25	70.5	480	2420×860×1980	2670×1080×2170	
	6		149.0	224.0	7.10	152	7.5	59	50		71.2	540			
25L	4	25000	149.3	248.9	7.10	218	7.5	34	65	25	70.7	620	2790×960×2160	3040×1180×2350	
	6		187.0	279.0	8.90	218	7.5	64	65		71.3	680			
30L	4	30000	179.2	298.7	8.60	173	11.0	53	65	25	73.1	690	2790×960×2360	3040×1180×2540	
	6		225.0	335.0	10.80	173	11.0	69	65		73.5	760			
35L	4	35000	209.1	348.4	10.00	235	11.0	40	80	25	73.6	780	3200×1000×2360	3450×1220×2540	
	6		265.0	391.0	12.70	235	15.0	67	80		74.2	860			
40L	4	40000	238.9	398.2	11.40	193	15.0	41	80	25	76.2	850	3400×1000×2360	3650×1220×2540	
	6		300.0	447.0	14.30	193	15.0	68	80		77.5	940			

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

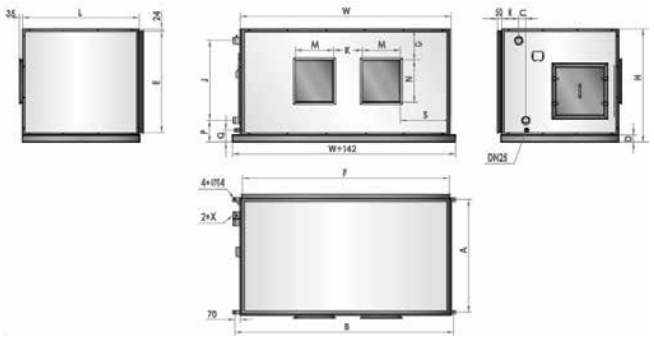
● Fresh air condition

Model		Air volume	Rated cooling capacity	Rated heating capacity	Water flow rate	Externa static pressurel	Fan motor input	Water pressure drop	Chilled water pipe	Cooling water pipe	Sound level	Net weight	Net dimension	Package dimension	Power supply
MKSxxxY(orZ)/C-H		m³/h	kW	kW	L/s	Pa	kW	kPa	DN	DN	dB(A)	kg	W×D×H (mm)	W×D×H (mm)	V-Ph-Hz
03L	4	3000	32.0	35.6	1.53	52	0.75	46	40	25	57.1	130	1010×580×1100	1260×730×1290	380~415V-3-50Hz
	6		42.5	49.4	2.03	212	1.1	47	40		57.5	140			
04L	4	4000	45.5	46.0	2.17	79	1.1	13	40	25	58.2	150	1050×580×1250	1300×730×1440	
	6		56.7	65.9	2.71	239	1.5	24	40		60.3	162			
05L	4	5000	57.1	72.6	2.73	96	1.1	61	40	25	60.5	170	1110×630×1420	1360×780×1610	
	6		70.9	82.4	3.39	256	2.2	58	40		61.2	185			
06L	4	6000	64.9	84.0	3.10	68	1.5	37	40	25	61.4	190	1200×630×1470	1450×780×1660	
	6		84.5	97.0	4.04	228	2.2	62	40		61.9	210			
08L	4	8000	87.6	112.0	4.19	118	2.2	73	40	25	63.2	230	1350×740×1650	1600×890×1840	
	6		113.0	132.0	5.40	288	3.0	46	40		63.6	255			
10L	4	10000	113.0	140.0	5.40	112	3.0	79	50	25	64.5	250	1410×740×1800	1660×890×1990	
	6		141.0	165.0	6.74	292	4.0	69	50		65.4	290			
15L	4	15000	170.0	210.0	8.12	125	5.5	73	50	25	67.6	360	1940×740×1880	2190×960×2070	
	6		213.0	247.0	10.18	205	5.5	76	50		68.4	410			
20L	4	20000	222.0	280.0	10.61	152	7.5	69	50	25	70.5	480	2420×860×1980	2670×1080×2170	
	6		279.0	323.0	13.33	152	7.5	66	50		71.2	540			
25L	4	25000	279.0	350.0	13.33	218	7.5	71	65	25	70.7	620	2790×960×2160	3040×1180×2350	
	6		350.0	404.0	16.72	218	7.5	83	65		71.3	680			
30L	4	30000	322.0	412.0	15.38	173	11.0	36	65	25	73.1	690	2790×960×2360	3040×1180×2540	
	6		418.0	485.0	19.97	173	11.0	77	65		73.5	760			
35L	4	35000	382.0	490.0	18.25	235	11.0	32	80	25	73.6	780	3200×1000×2360	3450×1220×2540	
	6		494.0	566.0	23.60	235	15.0	67	80		74.2	860			
40L	4	40000	430.0	560.0	20.54	193	15.0	35	80	25	76.2	850	3400×1000×2360	3650×1220×2540	
	6		557.0	647.0	26.61	193	15.0	77	80		77.5	940			

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

Dimensions

Suspended type



(unit:mm)

MODEL(MKS-H)		02D/C	03D/C	04D/C	05D/C	06D/C	07D/C	08D/C	09D/C	10D/C	12D/C	15D/C
Outside dimension	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
C	4R	66	66	66	66	66	66	66	66	66	66	66
	6R	110	110	110	110	110	110	110	110	110	110	110
D		25	25	25	25	25	25	25	25	25	25	25
Inlet flange	E	465	510	510	525	525	625	625	675	675	680	825
	F	820	970	1250	1340	1540	1540	1650	1650	1890	1890	2190
G		135	166	166	166	166	211	211	211	211	316	300
J		195	245	245	295	295	400	400	445	445	550	595
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		170	170	170	170	170	170	170	170	170	170	170
Q		71	71	71	71	71	71	71	71	71	71	71
R		115	115	115	115	115	115	115	115	115	115	115
Diameter of connection pipe X	4R	DN40	DN40	DN40	DN40	DN40	DN40	DN50	DN50	DN50	DN50	DN50
	6R	DN40	DN40	DN40	DN40	DN40	DN40	DN50	DN50	DN50	DN50	DN50

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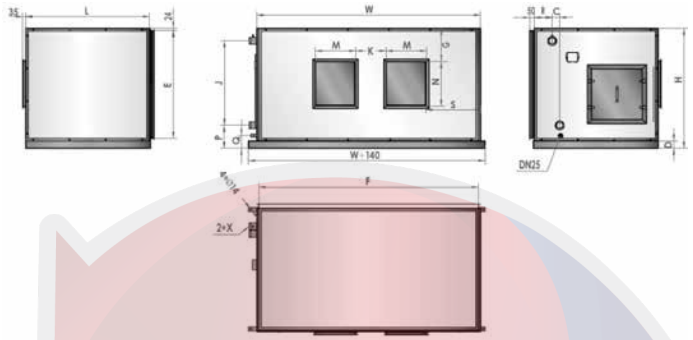
Horizontal type

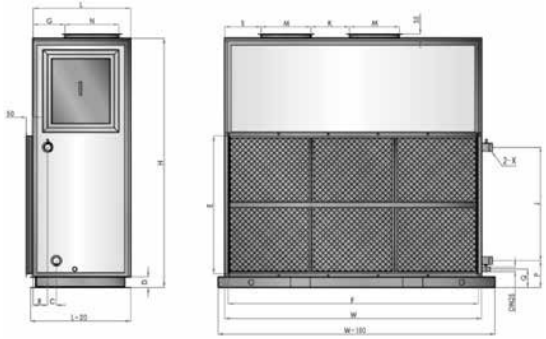


(unit:mm)

MODEL(MKS-H)		05W/C	06W/C	08W/C	10W/C	15W/C	20W/C	25W/C	30W/C	35W/C	40W/C
Outside dimension	L	1120	1120	1170	1200	1220	1350	1400	1450	1880	1880
	W	1100	1200	1450	1650	1940	2440	2590	2790	2790	2790
	H	840	840	945	965	1195	1310	1510	1580	1930	2060
C	4R	66	66	66	66	66	82.5	82.5	82.5	82.5	82.5
	6R	110	110	110	110	110	137.5	137.5	137.5	137.5	137.5
D		25	25	25	25	25	80	80	80	80	80
Inlet flange	E	762	762	865	890	1115	1175	1375	1440	1795	1925
	F	1050	1140	1390	1600	1880	2390	2540	2740	2740	2740
G		157	157	177	195	422	335	533	593	746	876
J		498	498	599	599	853	923	1114	1177	669	733
K		/	/	/	/	282	335	446	446	666	666
Outlet flange	M	405	405	482	482	373	430	567	567	648	648
	N	350	350	414	414	404	478	488	488	648	648
P		172	172	172	172	172	224	224	224	224	224
Q		71	71	71	71	71	126	126	126	126	126
R		156	156	156	156	156	195	195	195	186	186
Diameter of connection pipe X	4R	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN65	2xDN65	2xDN65
	6R	DN40	DN40	DN50	DN50	DN65	DN65	DN80	DN80	2xDN65	2xDN65

note:code 2x representative two coil.

Vertical type



(unit:mm)

MODEL(MKS-H)		03L/C	04L/C	05L/C	06L/C	08L/C	10L/C	15L/C	20L/C	25L/C	30L/C	35L/C	40L/C
Outside dimension	L	580	580	630	630	740	740	740	860	960	960	1000	1000
	W	1010	1050	1110	1200	1350	1410	1940	2420	2790	2790	3200	3400
	H	1100	1250	1420	1470	1650	1800	1880	1980	2160	2360	2360	2360
C	4R	66	66	66	66	66	66	66	83	83	83	118	118
	6R	110	110	110	110	110	110	110	138	138	138	138	138
D		50	50	50	50	50	50	80	80	80	80	80	80
Inlet flange	E	474	575	677	728	830	982	1038	1026	1090	1280	1280	1280
	F	960	1000	1060	1150	1300	1360	1890	2370	2740	2740	3150	3350
J		304	405	507	558	660	805	856	839	918	1108	1098	1098
K		/	/	/	/	/	/	282	373	448	448	438	438
Outlet flange	M	309	342	405	405	482	482	384	482	567	567	579	579
	N	273	300	350	350	414	414	414	414	488	488	579	579
G		188	202	205	205	249	249	233	247	309	309	303	307
S		212	207	232	271	307	347	266	290	348	348	616	854
P		161	161	161	161	161	168	203	206	211	211	214	214
Q		101	101	101	101	101	101	131	134	134	134	134	134
R		102	102	102	102	102	102	111	111	111	111	111	111
Diameter of connection pipe X	4R	DN40	DN40	DN40	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN80	DN80
	6R	DN40	DN40	DN40	DN40	DN40	DN50	DN50	DN50	DN65	DN65	DN80	DN80

note:code 2x representative two coil.

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