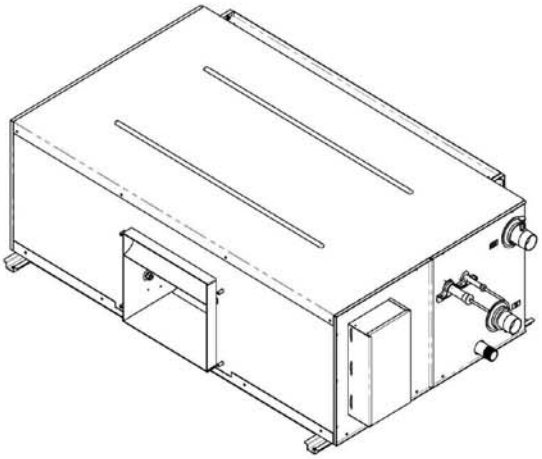
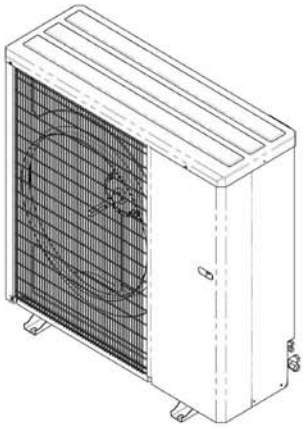
TAHVIEHSAM
Cooling System Solutions

EUROKLIMAT®

High Static Duct Split Central Air Conditioning

Model:	High static pressure duct type	EKCCH015A – EKCCH070A
	Cassette Ceiling-embedded	EKCK030A/EKCK050A
Cooling capacity:	4.4kW~20.5kW	
Heating capacity:	4.6kW~21.8kW	





We help our customers

SUCCEED

EUROKLIMAT Air Conditioner, Environmental & Energy-saving Technology from Europe.

EUROKLIMAT (EK) was established in 1963 in Italy. For the past half a century, it has become famous as an energy-saving air-conditioning manufacturer in Italy and globally. Continuous innovation, new product development and top manufacturing quality are the driving force behind this growth.

EUROKLIMAT (EK) pursues the ideals of protecting the environment, providing physical comfort and adopting energy-saving into the whole process of product R&D, manufacturing and service. Our products covering residential, commercial and close control air-conditioner are manufactured according to the global generally accepted standards.

Berlin - Allianz Assurance

ISO9001: 2008 corporate certification

ISO14001: 2004 Environmental management system certification

Product Manufacturing License (XK06-015-00361)

CNAS L5123

State-certified Lab

BMW Central Data Center, Munich

EUROKLIMAT EK 50th SINCE 1963

Helsinki- Nokia R&D centers worldwide headquarters

EK Italia Headquarters

3M Central office, UK

DHL Central Data Center

ZTE Central Office, Shenzen

EK China Factory

EK China Factory

Canon Factory

Apple Central Shopping, Shanghai

Renault Automotive Factory

Coca Cola Factory


CHANEL

EK EUROKLIMAT®

When did Euroklimat in 1963, our mission was simple. to creat the best conditioners in the world, Today we added more to our mission: maximizing efficiency energy savings and respect for the environment, High-tech, cutting. " edge to make the most of natural refrigerants and systems "free-cooling

Nomenclature

Indoor Unit of Duct Split Central Air Conditioner

High Static Pressure Duct Type Indoor Unit

EKCCH	015	A	-	R	D	F	A	AA
1	2	3		4	5	6	7	8

1.	EKCCH	high static pressure duct type air conditioner
2.	015	Cooling capacity code
3.	A	Design S/N
4.	R	Pipelining mode; L – Left; R – Right
5.	D	Air return mode; D – downward; B – backward; C – no air return plenum
6.	F	Air filter characteristic; F – air filter provided; X – no air filter
7.	A	Power supply feature: F: 380V/3N~/50Hz; A: 220V~/50Hz

Cassette Ceiling-Embedded Indoor Unit

EKCK	030	A	-	A	AA
1	2	3		4	5

1.	EKCK	Cassette Ceiling-embedded air conditioner
2.	030	Cooling capacity code
3.	A	Design S/N
4.	A	Power supply feature: F: 380V/3N~/50Hz; A: 220V~/50Hz
5.	AA	Detailed description of product specification changes

EKCCH series

EKCK series

deliver high quality and are available in multiple models. These air conditioners are easy to install, saving expensive room in modern cities, and are widely used in hotels, malls, stores, office buildings, villas, and apartments.

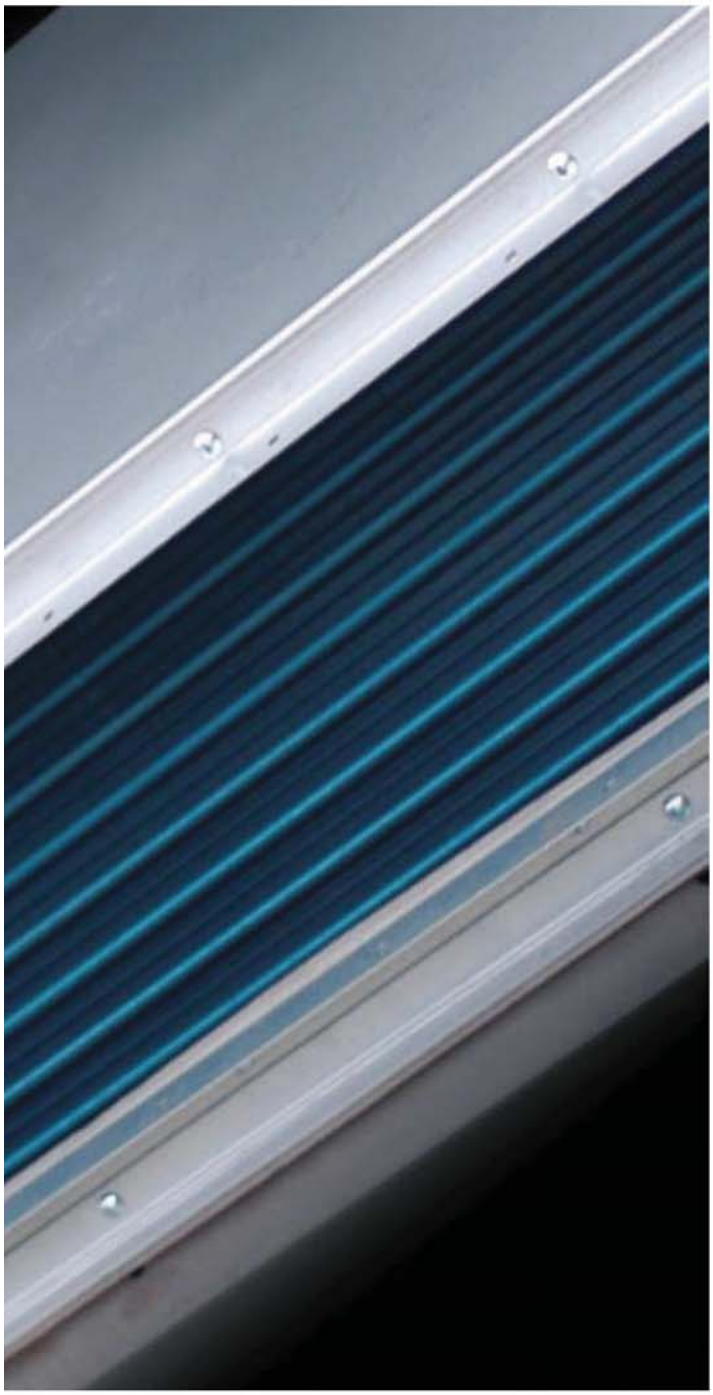
Nomenclature

Outdoor Unit of Duct Split Central Air Conditioner

EKAA	100	A	R	C - F	AA
1	2	3	4	5 6	7

1.	EKAA	Outdoor unit of split type central air conditioner
2.	100	Cooling capacity code
3.	A	Design S/N
4.	R	Function mode; R: cooling and heating; cooling unit by default
5.	C	Indoor unit feature; C: equipped with EKCCH indoor unit; K: equipped with EKCK indoor unit
6.	F	Power supply feature; F: 380V/3N~/50Hz; A: 220V~/50Hz
7.	AA	Detailed description of product specification changes

High Static Pressure Duct Split air conditioner – EKCCH European style series



Overview

EKCCH European style series High static pressure Duct air conditioners provide innovative design and are available in concealed hoisting and exposed hoisting models. These air conditioners provide comfort and elegance and meet requirements for use in different places. Outdoor fresh air can be introduced, improving indoor air quality. This series is widely used in residential and commercial scenarios such as villas, apartments, office buildings, classrooms, supermarkets, malls, and workshops.

Unit Features

Super-silent Operation

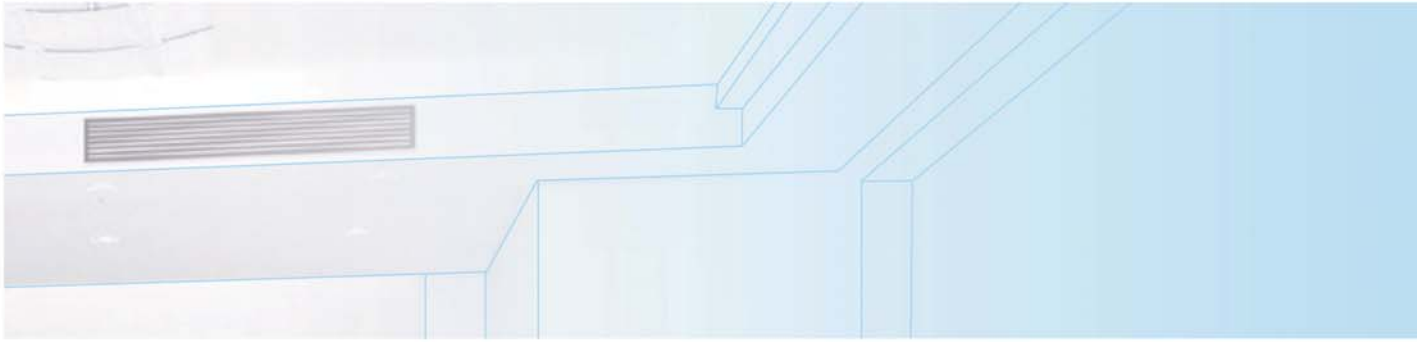
The unit features ultra-low operation sound. All parts such as fans and motors are carefully selected and continuously improved. The structure and pipeline also feature professional noise dampening design, significantly reducing the noise level to an industry-leading level (26 dB at low speed).

User-friendly Control System

The wire controller features a large-screen LCD with blue backlight, and can automatically detect and precisely control the indoor temperature. Various functions are available to make indoor air comfortable while saving energy.

Wide Applications

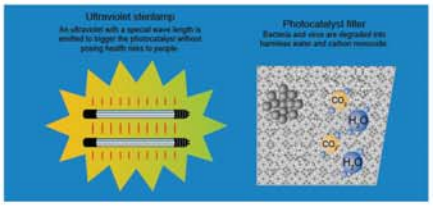
Energy-saving environment-friendly technology from Europe



Clean Air

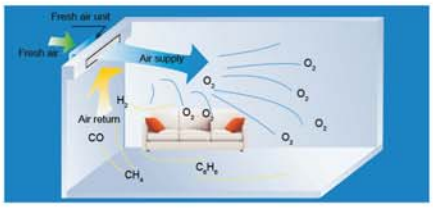
Fresh and Healthy

Multiple bacteria dampening devices are optional (such as bacteria dampening filter, ultraviolet sterilamp, and photocatalyst filter) for cleaning the air and killing harmful bacteria. (The unit must be equipped with a return air plenum to implement this function.)



Fresh Air Replenishment

Fresh air is replenished to reduce the density of CO_2 indoor and increase the percent of oxygen to avoid air-conditioning syndrome. When the unit is used with EKHR total heat recovery units to replenish fresh air indoor, customers can enjoy comfort while saving energy cost.



Flexible Applications

Multiple Models

The unit is available in concealed hoisting and exposed hoisting modes, meeting requirements for indoor decoration.

Flexible Air Supply Distances

The static pressure can be converted onsite to meet different requirements for air supply distance.

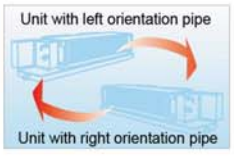
Model	Static pressure (Pa)	Optional pressure (Pa)
EKCCH015-025	30	0/15/50
EKCCH030-060	50	15/30/70
EKCCH070	70	15/30/50

Selectable Connecting Orientation (Right/Left)

Standard units provide left and right connecting orientations to facilitate design and installation.

Auxiliary Heating (Optional)

A built-in efficient and safe PTC auxiliary electric heating part can be added to the indoor unit, or an external electric heating box or external hot water coil box may be configured for heating in cold areas.



Specifications (R22)

Model		Indoor unit	EKCCH015A		EKCCH020A		EKCCH025A		EKCCH030A	
		Outdoor unit	EKAA015AC	EKAA015ARC	EKAA020AC	EKAA020ARC	EKAA025AC	EKAA025ARC	EKAA030AC	EKAA030ARC
Cooling Capacity		W / Btuh	4400/15000	4400/15000	5860/20000	5860/20000	7300/25000	7300/25000	8800/30000	8800/30000
Heating capacity(Heat Pump)		W	--	4760	--	6300	--	7800	--	9600
Rated input power	Cooling	W	1490	1510	1910	1920	2340	2360	2740	2750
	Heating	W	--	1410	--	1790	--	2140	--	2505
Rated current	Cooling	A	6.5	6.6	8.7	8.8	10.8	10.9	12.4	12.6
	Heating	A	--	5.8	--	7.5	--	9.4	--	11.4
EER		W/W	2.94	2.91	3.07	3.07	3.11	3.09	3.21	3.20
Rated Hot Water Coil Capacity		W	--	6800	--	9100	--	11400	--	13200
Indoor unit	Air flow	m^3/h	750		1000		1200		1400	
	External static pressure	Pa	30(0/15/50)						50(15/30/70)	
	Indoor unit weight	kg	29		31		33		38	
	Noise (high/medium/low)	dB(A)	30/28/26		32/29/27		35/31/28		36/33/32	
	Length x width x height	mm	900×628×247		1100×628×247					
Outdoor unit	Noise	dB(A)	52		52		56		58	
	Outdoor unit weight	kg	38		45		47		55	
	Length x width x height	mm	780×255×538		842×286×611				840×311×697	
Power supply			220V~/50Hz							
Connector size	Liquid pipe external diameter φmm (in.)	φmm(in.)	6.35(1/4)		6.35(1/4)		9.52(3/8)		9.52(3/8)	
	Gas pipe external diameter φmm (in.)	φmm(in.)	12.7(1/2)		15.88(5/8)		15.88(5/8)		15.88(5/8)	
	Water drainage pipe		R3/4							
Shell of exposed hoisting unit			EKCC015E		EKCC020E		EKCC025E		EKCC030E	
Hot Water Coil inlet/outlet pipe size			R3/4							
Hot Water Coil Flow Rate		L/S	0.18		0.22		0.26		0.3	
Hot Water Coil Pressure Drop		KPa	22		24		24		25	

Note:

- The GB 19576-2004 EER standard is applied.
- The nominal cooling capacity is measured under the following conditions: The indoor dry/wet bulb reads 27/19 °C and the outdoor dry bulb reads 35 °C.
- The nominal heating capacity is measured under the following conditions: The indoor dry/wet bulb reads 20/15 °C and the outdoor dry/wet bulb reads 7/6 °C.
- The preceding performance data is based on the condition that the connection pipe between indoor and outdoor units is 5 m.
- The air amount of the indoor unit is the air amount at high wind speed under standard static pressure.
- The value in brackets for static pressure outside the unit is an optional value for static pressure. When an external hot water coil box is used, the air resistance of the hot water coil box needs to be deducted from the original static pressure outside the unit to obtain the static pressure value outside the unit.
- The noise value for the indoor unit is measured under standard static pressure outside the unit in a semi-anechoic room without air return plenum. The noise increases by about 5 dB(A) in the case of downward air return.
- An indoor unit with an external electric heater box or external hot water coil box is equal to a standard unit.
- For details about on-site power distribution and wiring for unit installation, see the nameplate or installation manual of the unit.

Specifications (R22)

Model		Indoor unit	EKCCH040A		EKCCH050A		EKCCH060A		EKCCH070A	
		Outdoor unit	EKAA040AC	EKAA040ARC	EKAA050AC	EKAA050ARC	EKAA060AC	EKAA060ARC	EKAA070AC	EKAA070ARC
Cooling capacity		W / Btuh	11700/40000	11700/40000	14650/50000	14650/50000	17600/60000	17600/60000	20500/70000	20500/70000
Heating capacity (Heat Pump)		W	--	12600	--	15900	--	19400	--	22500
Rated input power	Cooling	W	3620	3630	4580	4590	5430	5466	6280	6320
	Heating	W	--	3490	--	4640	--	5620	--	6480
Rated current	Cooling	A	17.8	17.9	9.4	9.6	10.5	10.6	11.8	11.9
	Heating	A	--	11.0	--	9.9	--	11.2	--	12.3
EER		W/W	3.23	3.22	3.20	3.19	3.24	3.22	3.26	3.24
Rated Hot Water Coil Capacity		W	--	19600	--	22000	--	24600	--	28300
Indoor unit	Air flow	m^3/h	2100		2100		2400		3000	
	External static pressure	Pa	50(15/30/70)						70(15/30/50)	
	Indoor unit weight	kg	55		56		74		107	
	Noise (high/medium/low)	dB(A)	43/41/39		46/44/42		48/45/43		55/48/44	
	Length x width x height	mm	1450×628×247				1740×628×247		1280×852×438	
Outdoor unit	Noise	dB(A)	59		59		59		61	
	Outdoor unit weight	kg	69	70	105	110	106	112	138	140
	Length x width x height	mm	840×311×697		970×412×1255				1007×489×1246	
Power supply			220V~/50Hz		380V/3N~/50Hz					
Connector size	Liquid pipe external diameter φmm (in.)	φmm(in.)	9.52(3/8)		9.52(3/8)		9.52(3/8)		9.52(3/8)	
	Gas pipe external diameter φmm (in.)	φmm(in.)	15.88(5/8)		19.05(3/4)		19.05(3/4)		19.05(3/4)	
	Water drainage pipe		R3/4						R1	
Shell of exposed hoisting unit			EKCC030E		EKCC040E		EKCC050E		EKCC060E	
Hot Water Coil inlet/outlet pipe size			R3/4		R3/4		R3/4		R1 1/2	
Hot Water Coil Flow Rate		L/S	0.45		0.49		0.56		0.63	
Hot Water Coil Pressure Drop		KPa	34		36		28		20	

Note:

- The GB 19576-2004 EER standard is applied.
- The nominal cooling capacity is measured under the following conditions: The indoor dry/wet bulb reads 27/19 °C and the outdoor dry bulb reads 35 °C.
- The nominal heating capacity is measured under the following conditions: The indoor dry/wet bulb reads 20/15 °C and the outdoor dry/wet bulb reads 7/6 °C.
- The preceding performance data is based on the condition that the connection pipe between indoor and outdoor units is 5 m.
- The air amount of the indoor unit is the air amount at high wind speed under standard static pressure.
- The value in brackets for static pressure outside the unit is an optional value for static pressure. When an external hot water coil box is used, the air resistance of the hot water coil box needs to be deducted from the original static pressure outside the unit to obtain the static pressure value outside the unit.
- The noise value for the indoor unit is measured under standard static pressure outside the unit in a semi-anechoic room without air return plenum. The noise increases by about 5 dB(A) in the case of downward air return.
- An indoor unit with an external electric heater box or external hot water coil box is equal to a standard unit.
- For details about on-site power distribution and wiring for unit installation, see the nameplate or installation manual of the unit.

Electric parameters

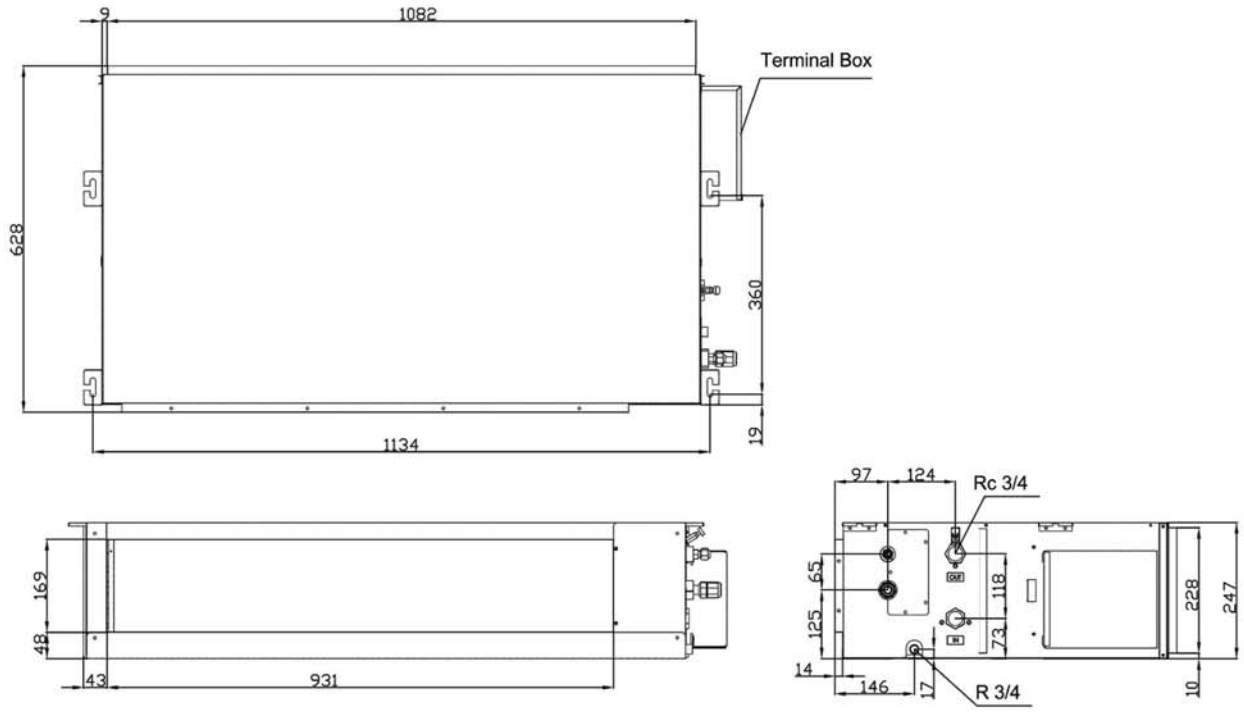
Model	Indoor unit	EKCCH015A	EKCCH020A	EKCCH025A	EKCCH030A	EKCCH040A	EKCCH050A	EKCCH060A	EKCCH070A
	Outdoor unit (Cooling Only)	EKAA015AC	EKAA020AC	EKAA025AC	EKAA030AC	EKAA040AC	EKAA050AC	EKAA060AC	EKAA070AC
Power cable	Cross sectional area (mm^2)	2.5	2.5	4	4	4	4	4	4
	Number	3	3	3	3	5	5	5	5
Cables connecting indoor unit and outdoor unit	Cross sectional area (mm^2)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Number	4	4	4	5	5	5	5	5
Fault reporting cables between indoor and outdoor units	Cross sectional area (mm^2)	\	\	\	1.5	1.5	1.5	1.5	1.5
	Number	\	\	\	3	3	3	3	3

Model	Indoor unit	EKCCH015A	EKCCH020A	EKCCH025A	EKCCH030A	EKCCH040A	EKCCH050A	EKCCH060A	EKCCH070A
	Outdoor unit (Heat Pump)	EKAA015ARC	EKAA020ARC	EKAA025ARC	EKAA030ARC	EKAA040ARC	EKAA050ARC	EKAA060ARC	EKAA070ARC
Power cable	Cross sectional area (mm^2)	2.5	2.5	4	4	4	4	4	4
	Number	3	3	3	3	5	5	5	5
Cables connecting indoor unit and outdoor unit	Cross sectional area (mm^2)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	Number	5	5	5	6	6	6	6	6
Fault reporting cables between indoor and outdoor units	Cross sectional area (mm^2)	\	\	\	1.5	1.5	1.5	1.5	1.5
	Number	\	\	\	3	3	3	3	3

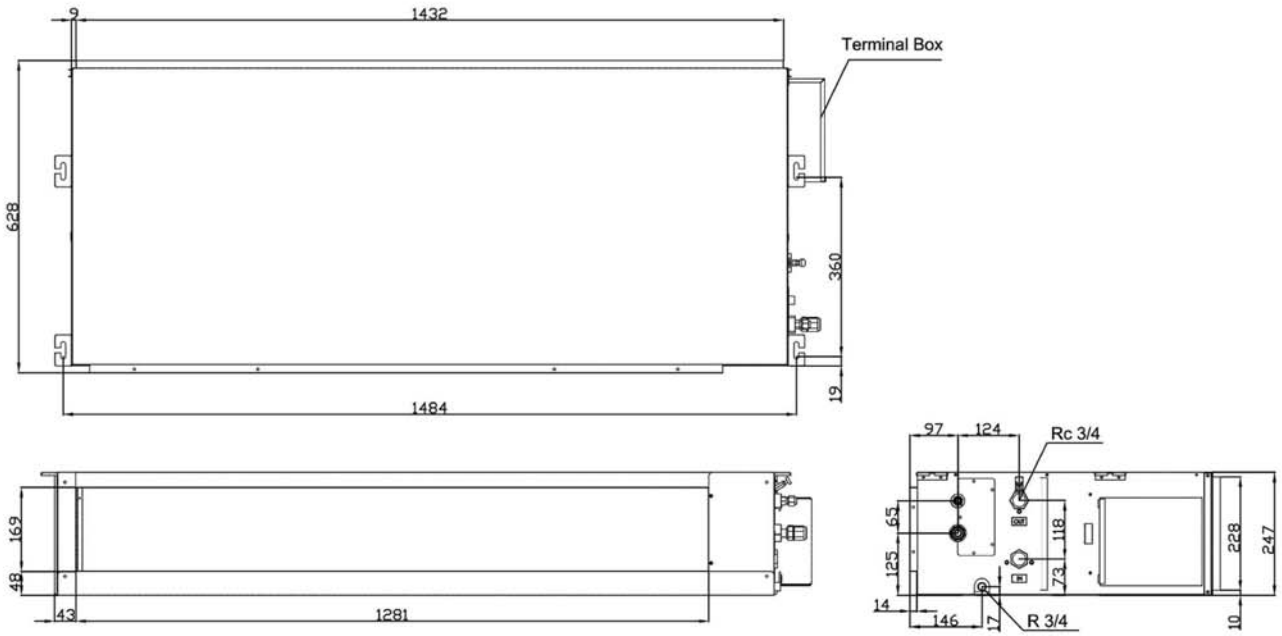
Note:

- The preceding cable specifications are recommended.
- All wires must be well connected. Connecting wires must be fixed by wire clips.
- All wires must avoid refrigerant pipeline and movable parts such as compressor and fan motor.
- Connecting wires must adopt chloroprene rubber copper conductor cables. The cross sectional
- area must meet the requirements listed in the preceding table.
- A circuit breaker with sufficient capacity must be set at the power input wire. The breaker has a contact separation of at least 3 mm.
- For details about on-site power distribution and wiring for unit installation, see the nameplate or installation manual of the unit.

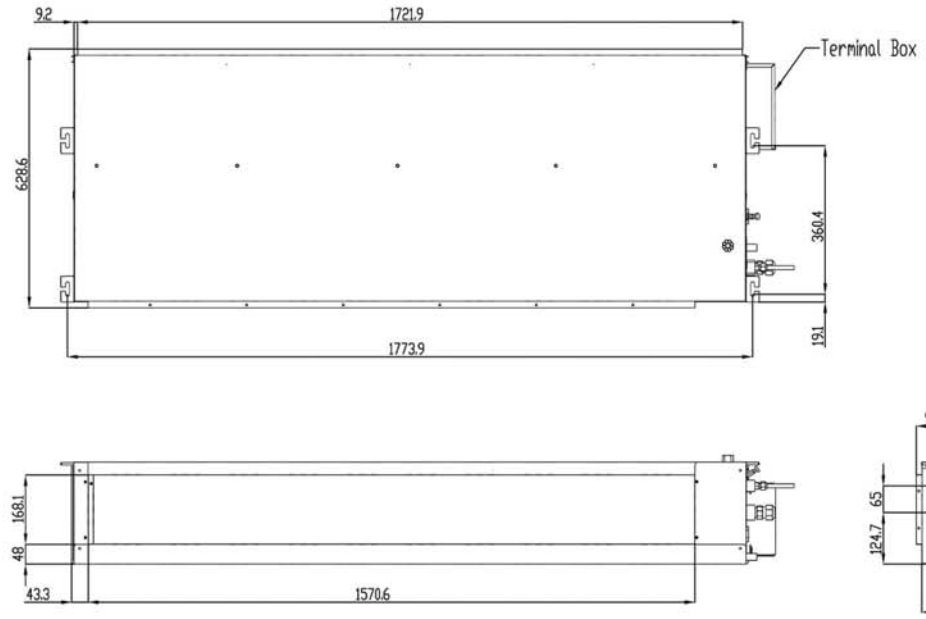
Indoor Unit Dimensions EKCCH020A – EKCCH025A – EKCCH030A



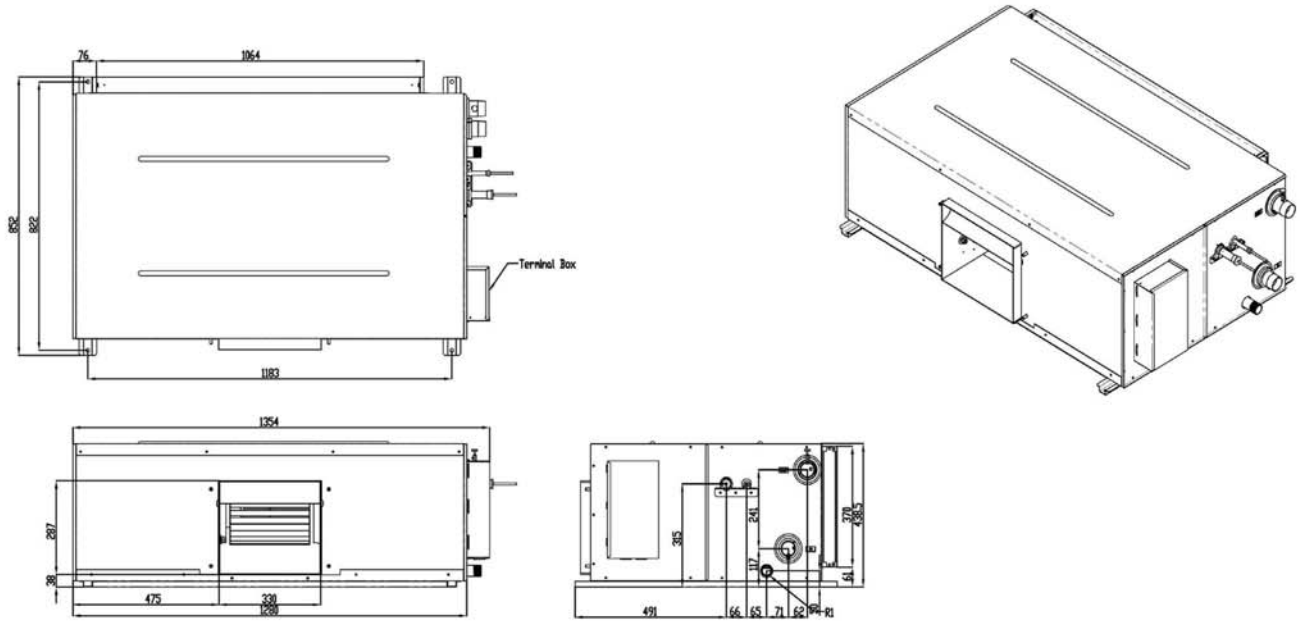
Indoor Unit Dimensions EKCCH040A – EKCCH050A



Indoor Unit Dimensions EKCCH060A



Indoor Unit Dimensions EKCCH070A



Ceiling mounted air conditioner - EKCK series

The ceiling-mounted EKCK series central air conditioners use artistic panels and have uniform dimensional design at four sides. The installation layout is convenient and flexible. The air conditioners supply strong and even circular air through wide-angle air outlets from four sides, quickly providing a comfortable indoor environment. In addition, advanced air circulation design continuously introduces fresh air from outside to build a natural and healthy living environment. This series is ideal for office buildings and malls, meeting requirements for comfortable environment in modern apartments and office buildings.

Unit Features

Graceful Exterior

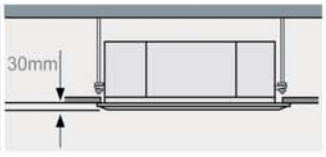
Elegant Design
The unit features graceful panel designs to improve the aesthetic feeling of indoor decorations.

Flexible Design
All models use decorating panels with same dimensions, facilitating deployment of indoor lighting systems and achieving a clean and enjoyable indoor decoration style.

Easy Installation

Super-slim Unit Body
The front panel is designed to be super slim and streamlined for easy installation.

Condensed water drainage pump
A fully automatic high pressure head condensed water drainage pump is built in. The lift can reach 750 mm, greatly facilitating configuration of the drainage pipe.



Wide Applications

Energy- saving environment-friendly technology from Europe

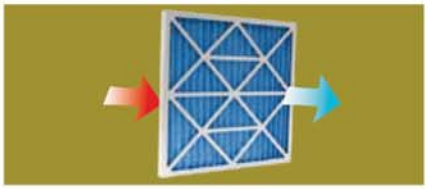
Silent, comfortable, and healthy

Super-silent Operation

The advanced three-dimensional spiral blade design from aviation technology is adopted to optimize the vent structure and realize super-silent operation.

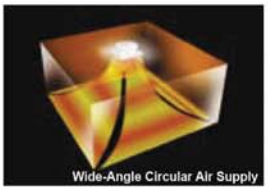
Washable Anti-mildew Filter with Long Effective Period

Folded filters with a long effective period can be easily washed to keep indoor air clean.



Wide-Angle Circular Air Supply

The unit provides wide-angle circular air with a strong and even current. For rooms with high ceilings, the unit can also quickly supply air to all corners, making air in the room immediately feel comfortable.



Smart Control and Flexible Application

Micro-computer Control

Two control modes, including delicate wireless LCD remote controller and wired LCD remote controller, are available. A standard unit supports both control modes. Both controllers can realize multiple functions, including function setting, fan speed regulation, and on/off time setting, achieve achieving accurate control and saving energy. In addition, multiple centralized control systems are available.

Specifications

Model		Indoor unit	EKCK030A		EKCK050A	
		Outdoor unit	EKAA030AK	EKAA030ARK	EKAA050AK	EKAA050ARK
Nominal cooling capacity		W	7800	7800	12500	12500
Nominal heating capacity		W	--	8000	--	15000
Rated input power	Cooling	W	2550	2600	4300	4300
	Heating	W	--	2500	--	5100
Rated current	Cooling	A	12	12	7.6	7.6
	Heating	A	--	11.5	--	9.1
EER		W/W	2.82	2.77	2.79	2.79
Energy Efficiency Rating			3	4	4	4
Indoor unit	Air flow	m^3/h	1200	1200	1700	1700
	Power	W	127		186	
	Current	A	0.58		0.86	
	Noise	dB(A)	40		44	
	Main unit (length x width x height)	mm	705×705×290		832×832×290	
	Panel (length x width x height)	mm	830×830×30		980×980×30	
	Weight	kg	31		41	
Outdoor unit	Noise	dB(A)	59		61	
	Weight	kg	55	56	105	112
	Length x width x height	mm	840×311×697		970×345×1255	
Power supply			220V~/50Hz		380V/3N~/50Hz	
Connector size	External diameter of liquid tube	φmm(in.)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	External diameter of air tube	φmm(in.)	15.88(5/8)	15.88(5/8)	19.05(3/4)	19.05(3/4)
	Pipe Connecting Mode		The copper tube tulip opening is connected to the threading connector.			
Water drainage pipe			φ27mm			

Note:

- The GB 19576-2004 EER standard is applied.
- The nominal cooling capacity is measured under the following conditions: The indoor dry/wet bulb reads 27/19 °C and the outdoor dry/wet bulb reads 35/24 °C.
- The nominal heating capacity is measured under the following conditions: The indoor dry/wet bulb reads 20/15 °C and the outdoor dry/wet bulb reads 7/6 °C.
- The sound pressure level noise is measured through test in a semi-anechoic room. Due to environment noise and other factors in actual operation, the actual noise may be different from those listed in the preceding table.
- The preceding data shows parameters when the horizontal length of connecting pipes between indoor and outdoor units is 5 m.
- For details about on-site power distribution and wiring for unit installation, see the nameplate or installation manual of the unit.

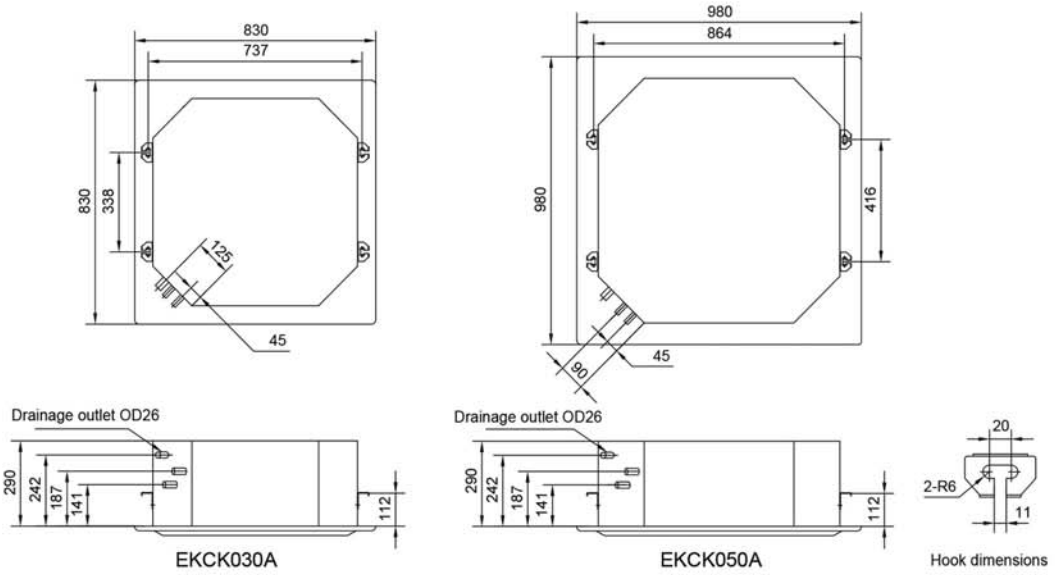
Electric parameters

Model	Indoor unit	EKCK030A		EKCK050A	
	Outdoor unit	EKAA030AK	EKAA030ARK	EKAA050AK	EKAA050ARK
Power supply		220V~/50Hz		380V/3N~/50Hz	
Power cable	Cross sectional area (mm^2)	4	4	4	4
	Number	3	3	5	5
Cables connecting indoor unit and outdoor unit	Cross sectional area (mm^2)	2.5	2.5	2.5	2.5
	Number	5	6	5	6
Fault reporting cables between indoor and outdoor units	Cross sectional area (mm^2)	1.5	1.5	1.5	1.5
	Number	3	3	3	3

Note:

- The preceding cable specifications are recommended.
- All wires must be well connected. Connecting wires must be fixed by wire clips.
- All wires must avoid refrigerant pipeline and movable parts such as compressor and fan motor.
- Connecting wires must adopt chloroprene rubber copper conductor cables. The cross sectional area must meet the requirements listed on the preceding table.
- A circuit breaker with sufficient capacity must be set at the power input wire. The breaker has a contact separation of at least 3 mm.
- For details about on-site power distribution and wiring for unit installation, see the nameplate or installation manual of the unit.

Model: EKCK030A/EKCK050A

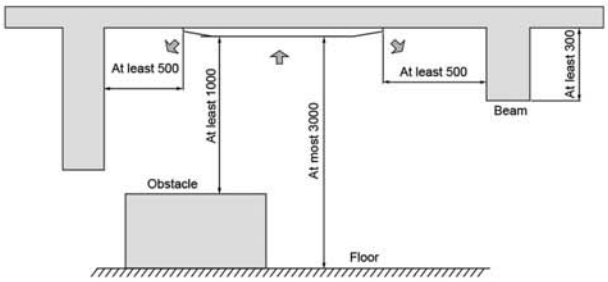


Measurement: mm

Indoor unit installation

- Ensure that the electric wires, refrigerant pipeline, and drainage pipes can be easily installed.
- Ensure that no obstacles exist in the air inlet/outlet channel of the indoor unit for good ventilation.

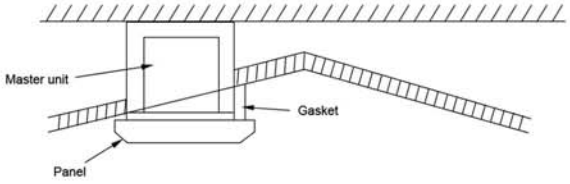
During installation, refer to the following figure:



Measurement: mm

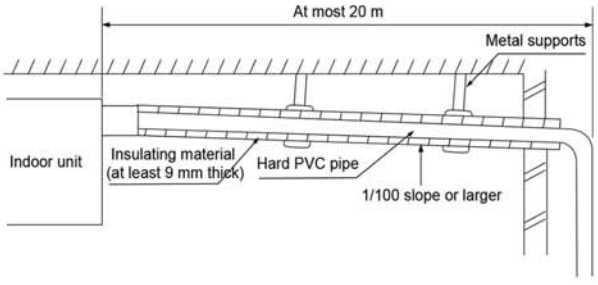
Install the unit within the scope of dimensions recommended in the figure so that the air conditioner performance can be guaranteed. The scope may be exceeded during actual installation, which, however, will affect air regulation of the air conditioner to a certain extent.

- The installation parts must be able to bear weight four times of the air conditioner to avoid large vibration and noise. The installation must be horizontal. In addition, ensure that the ceiling has sufficient height and space.
- If the indoor unit is installed in a space with an obstacle such as a lamp or in a confined space, connect pipes to improve air supply effects. Air may be sent to two rooms at the same time.
- The ceiling should be horizontal. If the unit is to be mounted to inclined ceiling, fill a gasket between the ceiling and panel to ensure that the unit is installed in a horizontal way as follows:



- Installation of the water drainage pipe

1) Firmly connect the other end of the flexible drainage pipe to a φ20 hard PVC pipe (purchased locally). Take waterproof measures at the connection.
2) Set a 1/100 or larger downward slope for the drainage pipe.
3) Wrap the PVC pipe with an insulating sleeve to prevent condensed water on the surface of the PVC pipe.



Outdoor unit of split type central air conditioner (EKAA)

Unit Features

Increasing Efficiency and Saving Energy

The unit uses a brand efficient volute compressor, which consumes less electricity while providing the same cooling/heating capacity. The compressor features a small volume and stable running.

Optimized System and Quiet Running

The outdoor unit produces a low noise. The system is optimized to suppress vibration and noise during operation, achieving quiet and stable unit running.

Soft Starter Thermal Protection

Soft starters reduce torque by controlling voltage delivered to the motor during startup.

Soft starters are designed to control the acceleration and deceleration of induction motors by controlling the voltage applied to the motor.

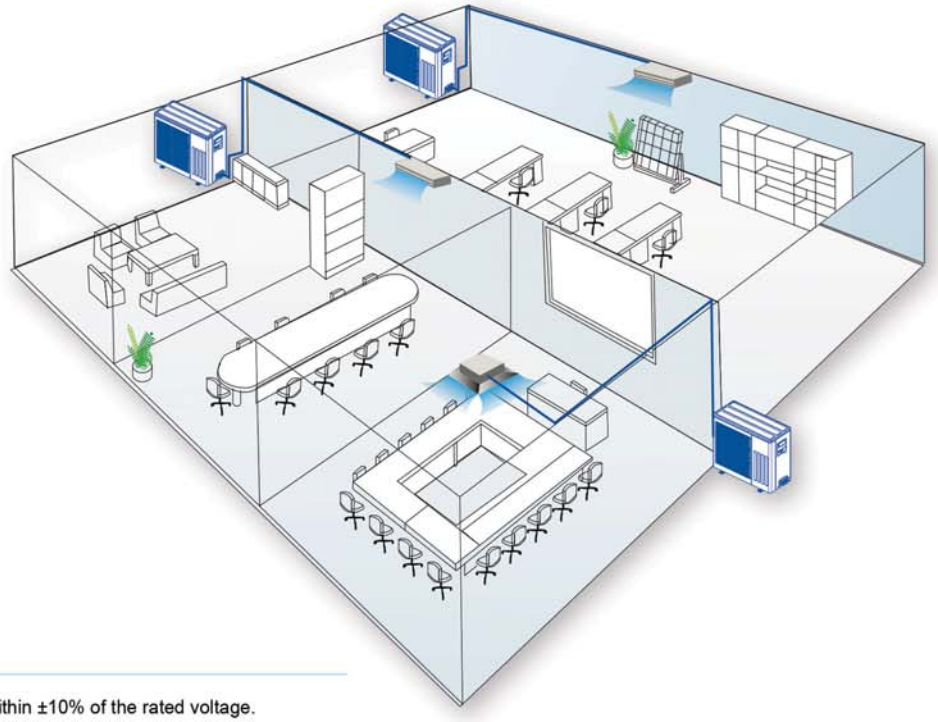
Soft starters are used on motors for the following advantages features:

1. Smooth starting by torque control for gradual acceleration of the system
2. Reduction in starting current to achieve break-away, and to hold back current during acceleration, to prevent mechanical, electrical, thermal weakening.
3. Enhancement of motor starting duty by reducing the temperature rise in stator windings and supply transformer.
4. The power factor improvement is a self monitoring in built feature.

Wide Range of Operating Temperature

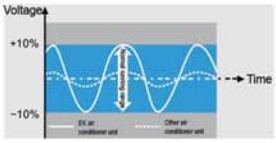
The unit steadily runs in cooling and heating modes in summer or winter. Cooling operation range: 18 oC to 48 oC. Heating operation range: -10 oC to 27 oC.

Energy-saving environment-friendly technology from Europe



Wide voltage range

The unit normally runs within ±10% of the rated voltage.



Multiple Protections

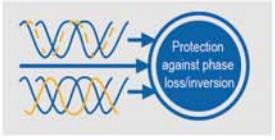
The unit provides high/low voltage protection, air exhaust temperature protection, overload protection, protection against phase loss or inversion, minimum downtime protection, minimum running time protection, and so on, minimizing damage to the unit. Faults are alarmed and displayed at the first moment, facilitating troubleshooting.

Power Recovery and Memory Functions

During operation, if the power fails, the unit can automatically start once the power resumes no matter how long the power failure lasts. After starting from an exceptional power failure, the unit automatically resumes the running status before the power failure. This function is not enabled upon factory delivery. It needs to be set through DIP switches on site.

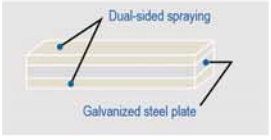
Protection against phase loss or inversion

In case that the power supply encounters phase loss or inversion, the protection device protects the running unit. Protection against phase inversion is designed for volute compressors.

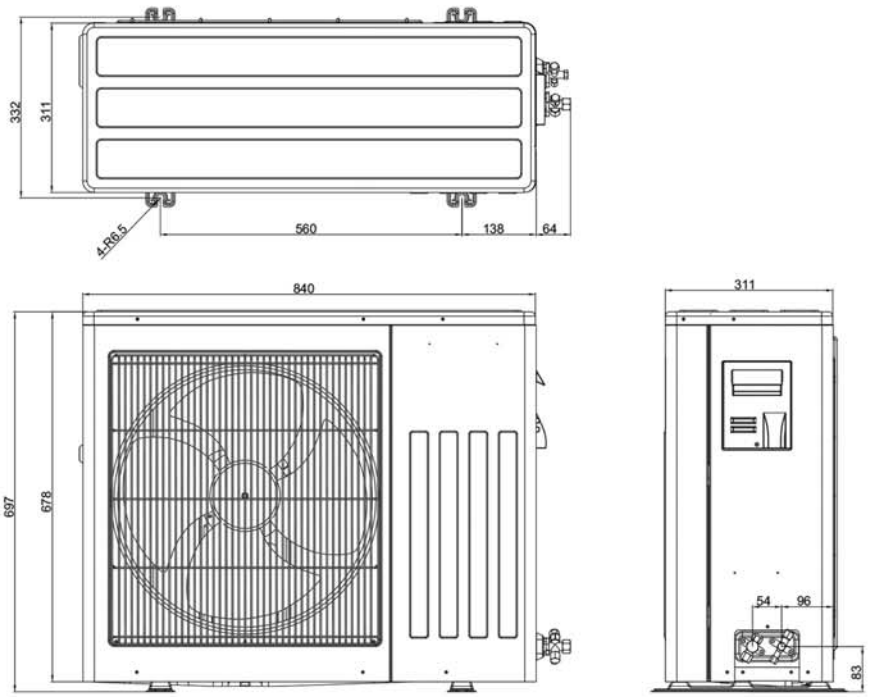


Dual-sided spraying for long lifecycle

The shell of the outdoor unit is sprayed with anti-UV and pure polyester mineral highlighter on dual sides, effectively prolonging the lifecycle of the unit.

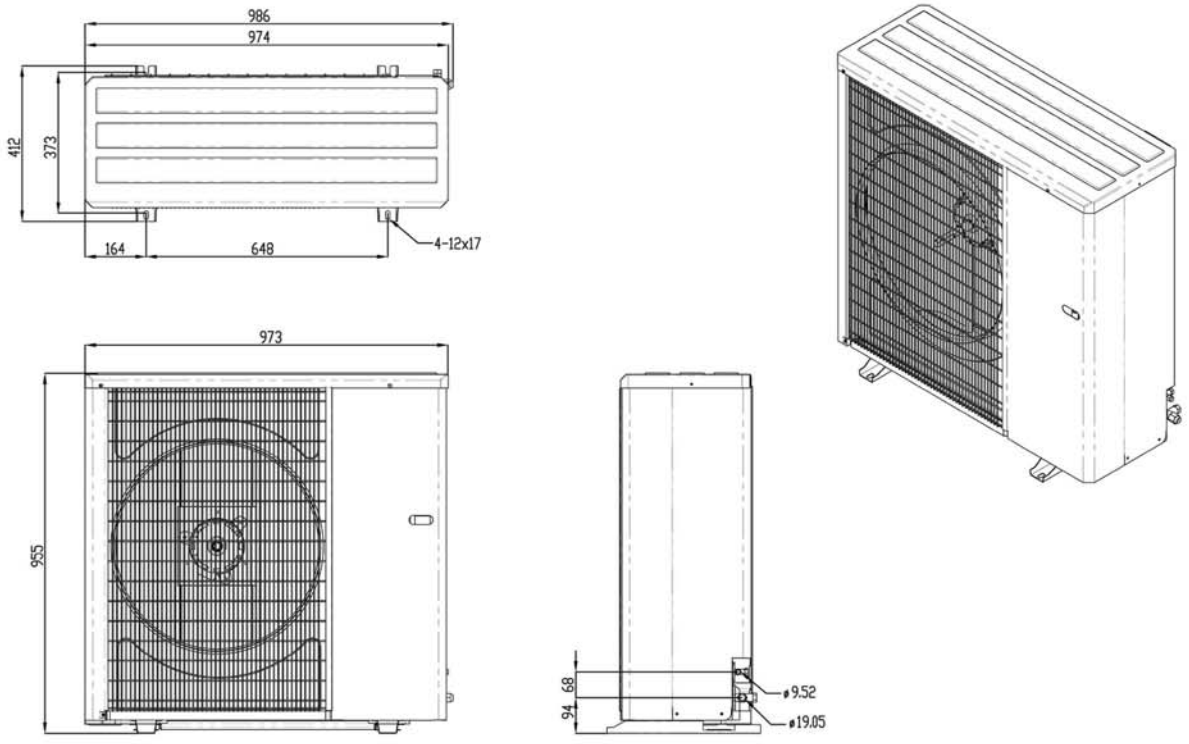


Outdoor unit models: EKAA030AC/EKAA030ARC



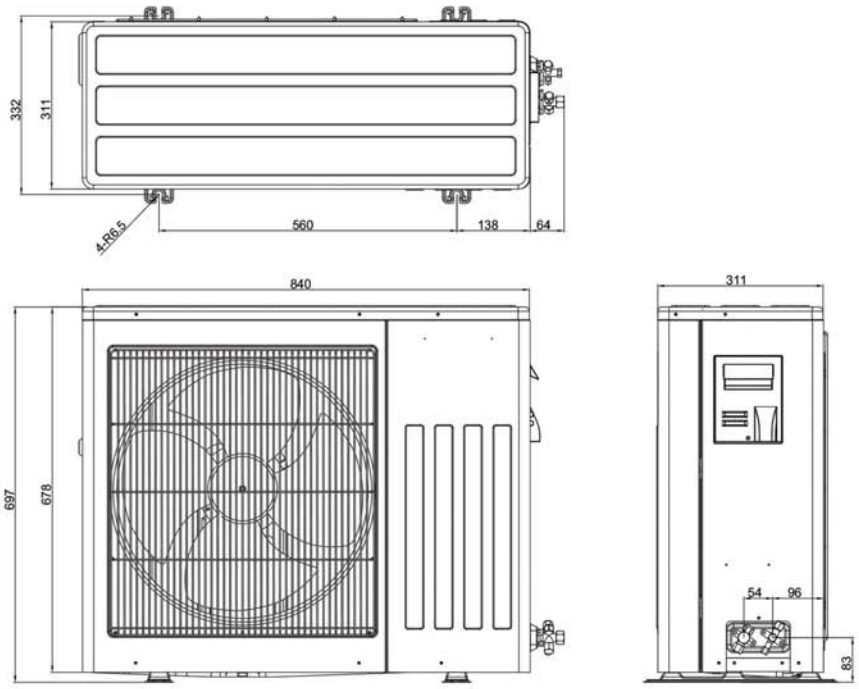
Measurement: mm

Outdoor unit models: EKAA040AC/EKAA040ARC,



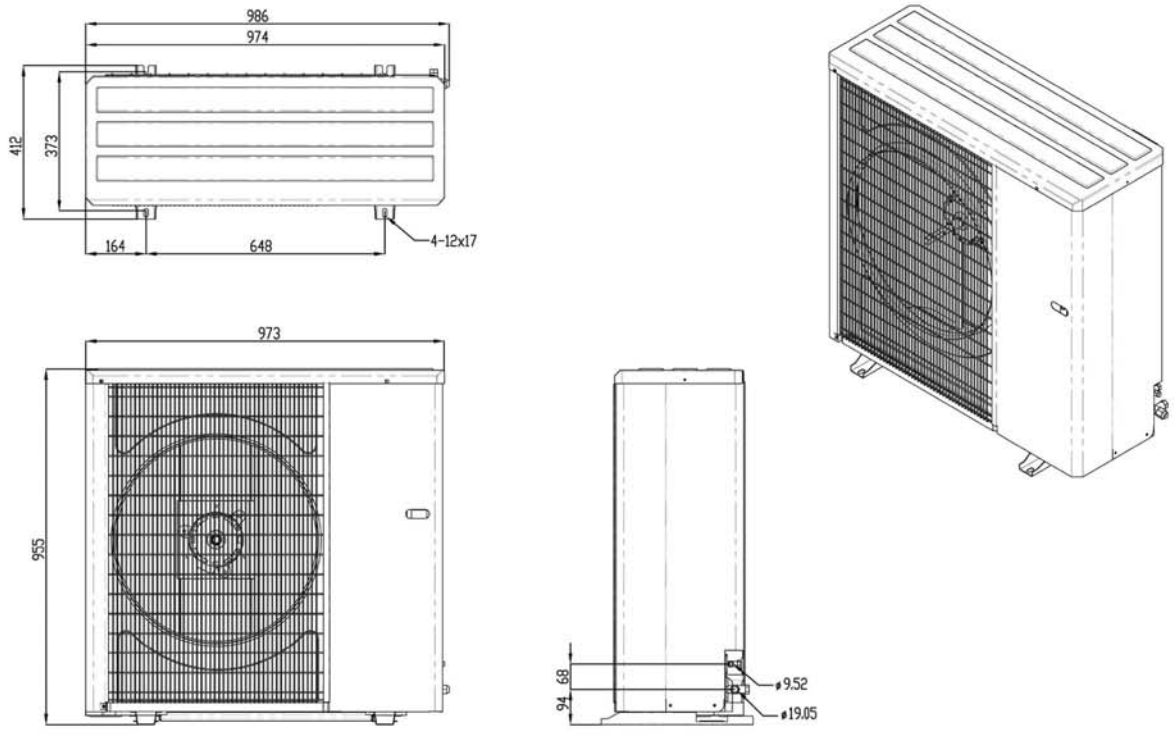
Measurement: mm

Outdoor unit models: EKAA030AC/EKAA030ARC



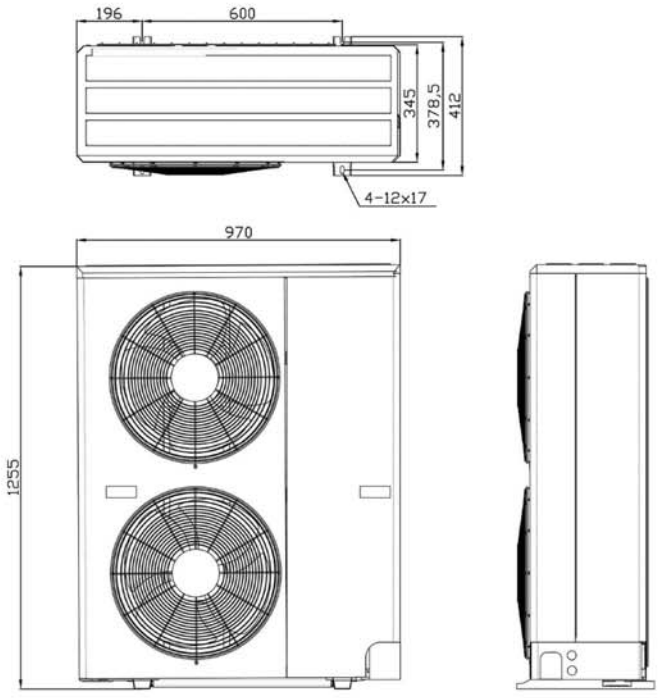
Measurement: mm

Outdoor unit models: EKAA040AC/EKAA040ARC,



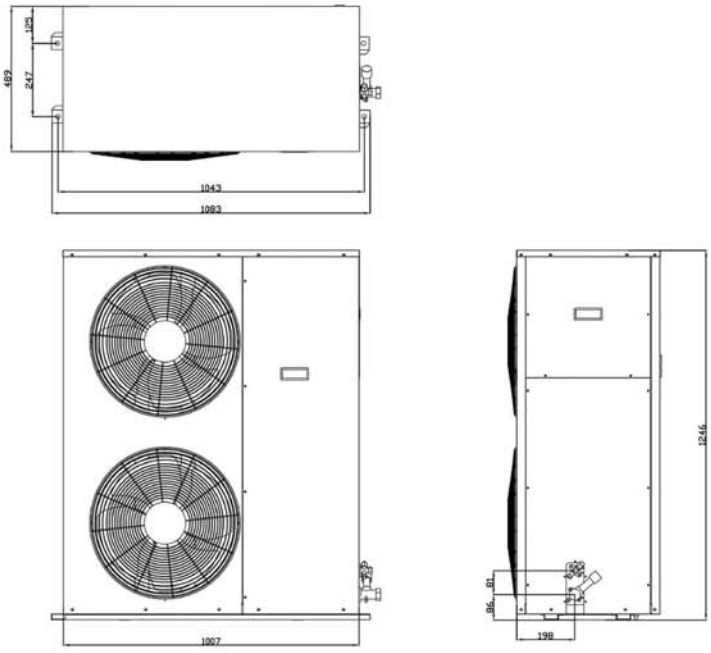
Measurement: mm

Outdoor unit models: EKAA050AC/EKAA060ARC



Measurement: mm

Outdoor unit models: EKAA070AC/EKAA070ARC,



Measurement: mm

Relationship between cooling/heating operation change coefficient and indoor/outdoor conditions

Cooling operation

Energy coefficient (ε) / Indoor wet bulb reading (oC) / Outdoor dry bulb reading (oC)	17	18	19	20	21	22	23
25	1.036	1.091	1.114	1.135	1.152	1.166	1.177
30	1.000	1.034	1.064	1.091	1.114	1.135	1.152
35	0.921	0.963	1.000	1.034	1.064	1.091	1.064
40	0.826	0.876	0.921	0.963	1.000	1.034	1.064
43	0.760	0.821	0.867	0.913	0.966	0.993	1.028

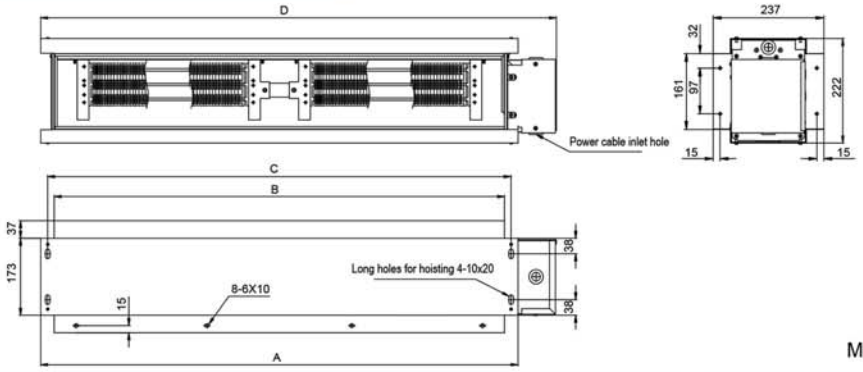
Heating operation(Heat Pump)

Energy coefficient (ε) / Indoor wet bulb reading (oC) / Outdoor dry bulb reading (oC)	14	12	10	8	6	4	2	0	-2	-4	-6	-8
10	1.236	1.189	1.155	1.118	1.079	1.036	0.991	0.942	0.890	0.835	0.776	0.713
15	1.195	1.161	1.125	1.086	1.041	0.997	0.948	0.896	0.842	0.784	0.721	0.658
20	1.170	1.131	1.093	1.051	1.000	0.955	0.904	0.849	0.791	0.729	0.663	0.600
25	1.138	1.099	1.054	1.015	0.957	0.910	0.856	0.800	0.737	0.672	0.600	0.539

Note:

- During cooling operation, the readings of the indoor dry bulb and outdoor wet bulb have little impact on the cooling capacity. On the contrary, during heating operation, the readings of the indoor wet bulb and outdoor dry bulb have little impact on the heating capacity. To better show the relationship between indoor/outdoor conditions and cooling/heating capacity, the preceding table does not include these impacts.
- The preceding table shows the approximate change curve of the EKCC series air conditioner with the change of indoor/outdoor conditions, and serves only as reference for customers during model selection.
- If the cooling (or heating) capacity in nominal conditions is Q0, and the energy coefficient in a certain condition is ε, the actual cooling (or heating) capacity in the corresponding condition Q1 is measured as follows: Q1 = Q0 x ε.

Outer dimensions of external electric heater box

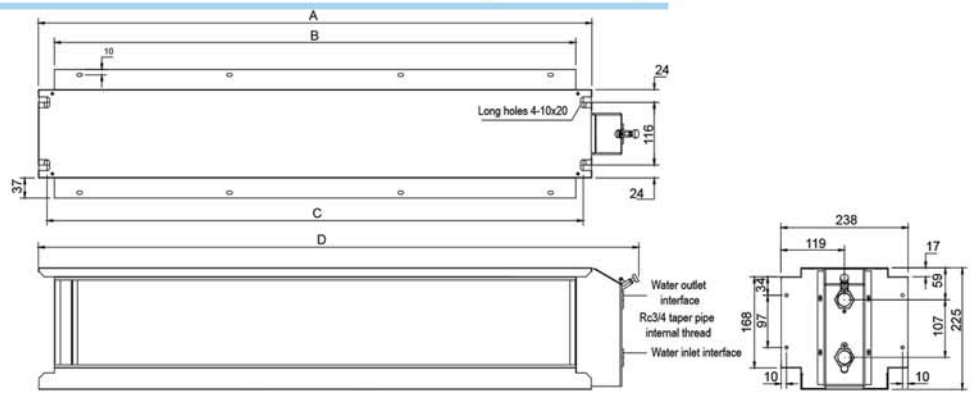


Measurement: mm

Model of the electric heater box	Applicable model	A	B	C	D	Heating capacity (W)	Power supply	Current (A)	Cross-sectional area of power cable (mm²)
ACCC-EH1.2-1	EKCC010A/EKCC015A	762	704	732	844	1200	220V~/50Hz	5.5	1.5
ACCC-EH2.4-1		762	704	732	844	2400	220V~/50Hz	11	2.5
ACCC-EH2.4-2	EKCC020A/EKCC025A/ EKCC030A	1022	964	992	1104	2400	220V~/50Hz	11	2.5
ACCC-EH3.6-2		1022	964	992	1104	3600	220V~/50Hz	16.4	4
ACCC-EH2.4-5	EKCC040A/EKCC050A	1372	1314	1342	1454	2400	220V~/50Hz	11	2.5
ACCC-EH3.6-5		1372	1314	1342	1454	3600	220V~/50Hz	16.4	4
ACCC-EH4.8-5	EKCC040A/EKCC050A	1372	1314	1342	1454	4800	380V/3N~/50Hz	7.3	1.5
ACCC-EH7.2-5		1372	1314	1342	1454	7200	380V/3N~/50Hz	11	2.5
ACCC-EH5.4-6	EKCC060A	1632	1574	1602	1714	5400	380V/3N~/50Hz	8.2	2.5
ACCC-EH7.2-6		1632	1574	1602	1714	7200	380V/3N~/50Hz	11	2.5
ACCC-EH10.8-6		1632	1574	1602	1714	10800	380V/3N~/50Hz	16.4	4

Note: The electric heater is externally installed at the air outlet of the indoor unit.

Outer dimensions of the external hot water coil box (for EKCC unit)



Measurement: mm

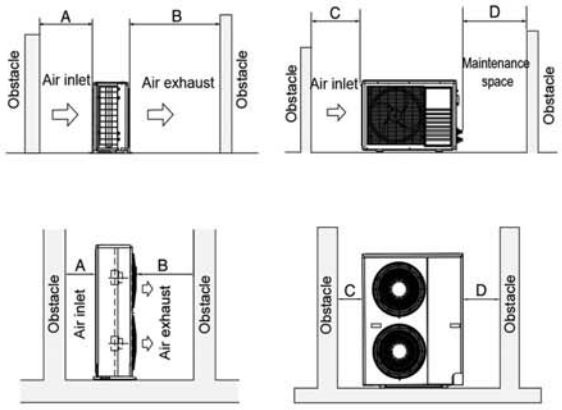
Model of the hot water coil box	Applicable model	A	B	C	D	Heating capacity (W)	Heating capacity (W)	Water flow (m^3/h)	Wind resistance (Pa)	Water resistance (kPa)	Net weight (kg)	Coils
WH-1	EKCC010A	774	714	742	862	450	3600	0.31	7	2	9.5	2
	EKCC015A	774	714	742	862	580	4200	0.36	13	3	9.5	2
ACCC-WH-2	EKCC020A	1034	974	1002	1122	850	6300	0.54	12	6	11.5	2
	EKCC025A	1034	974	1002	1122	1000	7200	0.6	17	7	11.5	2
	EKCC030A	1034	974	1002	1122	1200	8000	0.67	23	9	11.5	2
ACCC-WH-5	EKCC040A	1384	1324	1352	1472	1900	12000	0.99	31	11	14	2
	EKCC050A	1384	1324	1352	1472	1900	12000	0.99	31	11	14	2
ACCC-WH-6	EKCC060A	1644	1584	1612	1732	2100	13500	1.11	26	17	15	2

Note:

- Test conditions for the heating capacity of the hot water coil box: The inlet/outlet water temperature is 60°C/50°C.
- The wind resistance listed in the preceding table is measured at the wind speed. When the unit is used with a hot water coil, the actual external static pressure is the original external static pressure of the unit minus the wind resistance of the hot water coil.
- The external hot water coil must be installed at the air outlet of the indoor unit.

Installation of a single outdoor unit (EKAA010 to EKAA060 unit)

When installing an outdoor unit, ensure that the exhausted gas is not short-circuited, no obstacles exist, and the air flow is smooth.



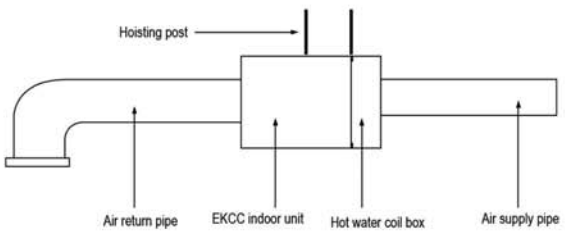
Measurement: mm

All models	A	B	C	D
Minimum distance (mm)	300	2000	300	500

Selecting the installation location

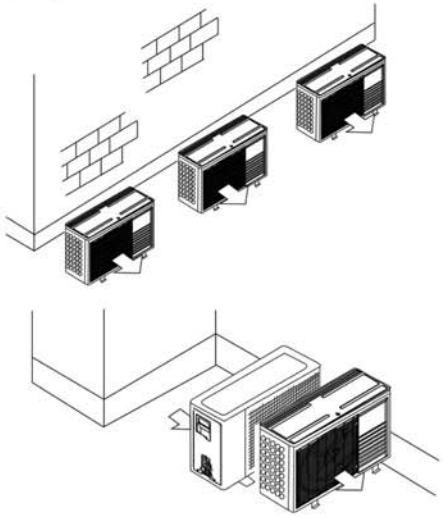
- Ensure that the selected location facilitates cable connection and pipe connection.
- For a ceiling mounted unit, select a location with a short wind pipe and low piping load. Ensure that the suspension posts are properly mounted and the unit is installed horizontally. Check whether suspension is safe and reliable.
- For a floor mounted unit, ensure that the foundation is solid and horizontal to fully bear the unit weight.
- During installation of an indoor unit, leave a certain distance between the air return outlet and the air supply outlet so that the air flow does not form a short circuit. Adopt flexible connection between the wind pipe and unit to reduce noise transfer and vibration of the unit.

Installation of the hot water coil box



Installation of multiple outdoor units (EKAA010 to EKAA060 unit)

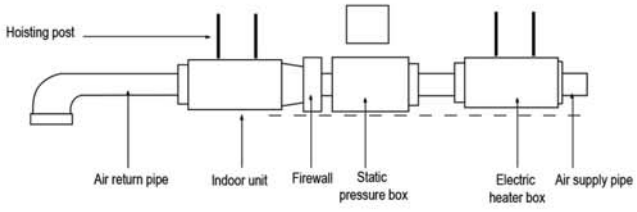
When installing two or more outdoor units together, select a proper position to prevent the case where one unit absorbs the air discharged by another unit.



Note:

- The installation site must be well ventilated.
- The unit is not exposed to direct sunlight.
- The installation place provides easy water drainage.
- The installation place bears the weight of the outdoor unit and can isolate noise and vibration.
- The installation place ensures that the air outlet is not opposed to strong wind.

Installation of the electric heater box



Note: For a unit equipped with an electric heater box, connect a cable from the control terminal of the electric heater to the control loop of the electric heater.

Note:

- For a heat pump unit equipped with a hot water coil box, it is recommended that the heat pump be used in transitional seasons for heating and the hot water coil be used for heating in winters.
- If a hot water coil is not used in winter, drain up the water in the coil or add a small amount of circulating hot water to prevent the coil from being frozen.
- For a unit equipped with a hot water coil, connect a cable from the control terminal on the hot water coil to the electric two-way valve that controls hot water. The electric two-way valve is purchased by the user.

Conversion Table of Units

Measurement	Metric system	British system
Length	1 m	3.281 ft
	0.3084 mm	1 ft
	1 mm	0.039337 in
	25.4 mm	1 in
Area	1 m^2	10.76 ft^2
	0.0929 m^2	1 ft^2
Volume	1 m^3	35.31 ft^3
	0.0283 m^3	1 ft^3
Weight	1 kg	2.205 lb
	0.4536 kg	1 lb
Speed	1 m^3/s	2119 cfm
	0.000472 m^3/s	1 cfm
	1 m^3/h	0.5836 cfm
Air flow	1.699 m^3/h	1 cfm
	1 L/s	2.119 cfm
	0.4719 L/s	1 cfm
Water volume	1 L/s	15.85 gpm
	0.06309 L/s	1 gpm
Power	1 kW	1.341 hp
	0.7457 kW	1 hp
	1 W	3.412 BTU/h
	0.2931 W	1 BTU/h
	1 kW	0.2843 Ton
Heat capacity	3.517 kW	1 Ton
	1 kJ	0.9478 BTU
	1.055 kJ	1 BTU
	1 kPa	4.015 inH_2O
	0.2491 kPa	1 inH_2O
	1 kPa	0.3346 ftH_2O
	2.989 kPa	1 ftH_2O
Pressure	1 kPa	0.2953 inHg
	3.386 kPa	1 inHg
	1 kPa	0.145 psi
	6.895 kPa	1 psi

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