VRF SYSTEM



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Air is our element – moving it **intelligently and efficiently** is our passion. Since 1981 we have been developing and producing adjustable external rotor motors, fans and air handling units.

Our headquarters in Künzelsau is in the centre of the Heilbronn-Franken innovation area. **German Engineering skill** is the basis of our development work and drives our innovation. As a worldwide company we are represented where our customers need us.

With production sites and sales offices in more than 45 countries **we are present worldwide** – a strong and reliable partner always within reach of our customers.

The continuous exchange of information between customers and employees comes first with us. Consequently, we can permanently optimise products and quality to respond flexibly to all of our customers' needs.





AIR IS OUR ELEMENT

We offer intelligent solutions to move air efficiently no matter whether it is hot or cold.



DRV Indoor Unit Lineup

DRV Indoor Unit (DC fan motors)

Capacity(kW)	Appearance	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	15.0
Four-way Cassette	1		•	•	•	•	•	•	•	•	•	•	•	
Slim Duct		•	•	•	•	•	•							
Mid ESP Duct					•	•	•	•	•	•	•	•	•	•
Wall-mounted		•	•	•	•	•	•							

DRV Indoor Unit (AC fan motors)

Capacity(kW)	Appearance	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	15.0
Four-way Cassette							•	•	•	•	•	•	•	
Slim Duct		•	•	•	•	•	•							
Mid ESP Duct	-				•	•	•	•	•	•	•	•	•	•
High ESP Duct	· D										•	•	•	•
Ceiling&Floor					•	•	•	•	•	•	•	•	•	
Wall-mounted		•		•	•	•	•							

Capacity(kW)	Appearance	22.0	28.0	45.0	56.0
High ESP Duct	TO D	•	•	•	•
Fresh Air Processor	R. M.			•	•

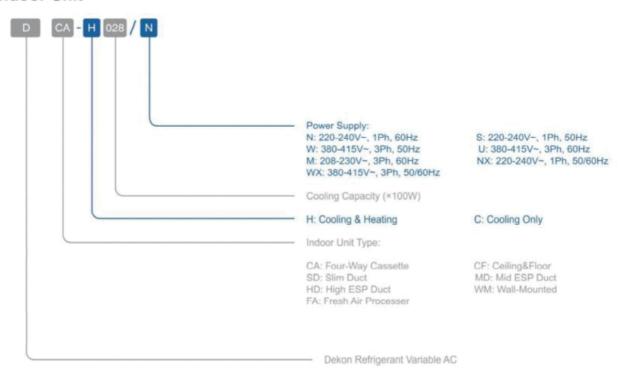
Heat Recovery Ventilator

Air Volume(m³/h)	Appearance	200	300	400	500	600	800	1000	1500	2000	2500	3000	4000	5000
HRV		•	•	•	•	•	•	•	•	•	•	•	•	•



Nomenclature

Indoor Unit



Outdoor Unit





Energy Saving



180° Sine Wave Control

With considerable advantages, DC Inverter 180° sine wave driving technology has much wider range of frequency and voltage, higher energy efficiency, more smooth running and lower noise.



0.5W Standby

Intelligent technology enables DRV products to cut energy consumption from normal 5W to 0.5W per hourwhen standby, which counts 90% of saving.



Sleep Mode

The function enables the air conditioner to automatically increase cooling or decrease heating 1°C per hour for the first 2 hours, then holds steady for the next 5 hours, after that it will switch off. This function maintains both energy saving and comfort in night.



Hydrophilic aluminum fin

The louvered hydrophilic aluminum foil has improved by more than 10%. There refrigerant inlet and outlet are separated, to ensure the sub-cooling and enhance the cooling capacity.



Full Process By DC Drive

DC control,DC Compressor,DC indoor motor, DC outdoor motor, and DC Electronic expansion valve make low noise and high efficiency.

Convenience



24-hour Timer

Users can turn on or turn off the air conditioner at any time in 24 hours with remote controller or wireless controller.



Built-in Drain Pump

The built-in pump can lift the condensing water 1200 mm upmost from the drainage



Dual side Drainage

Both left and right sides of the indoor unit are possible for drainage hose connection, and it's easy for installation with this function.



Digital Tube Display

Easily for the running parameters checking and more convenient for troubleshooting, digital tube displays work status such as indoor temperature, setting temperature, the mode of operation, etc.



Remote Control

Help users to control the air conditioner easily, you can design your most comfortable settings with this controller.



Wired Control

Help users to control the air conditioner easily, the wired controller can be fixed on the wall and avoid mislaying. It's mainly used for commercial zone and makes air conditioner control more convenient.



Central Control

With the control function of weekly timer, zone (or group) setting etc., the centralized controller can control 64 units with RS 485 wire connection and the central



WIFI Control

With the WIFI control, you can easily turn off the air conditioner outside your house via smart device. Furthermore, you can turn it on before you come back. The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.



Washable Filter

The indoor unit filter can be taken off to wash easily and it keeps cleaning air all the time.

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Auto Restart Function

If the air conditioner breaks off unexpectedly due to the power cut, it will restart with the previous setting mode automatically when the power resume.



Health



Fresh Air Intake

Air outside can be led into the room via a connection pipe, which keeps the indoor air fresh and healthy.



Long-term Filter

The latest long-term filter ensures better air quality. Meanwhile, the cleaning frequency has been decreased, and maintenance is also much easier.



Self-Cleaning

Indoor unit will continue running with special combined mode to blow and dry indoor evaporator after the unit switch off so as to keep clean and healthy.

Comfort



Anti-Cold-Air

When starting the heating operation, the fan speed is regulated automatically from the lowest speed to the preset level. This function can prevent cold air from blowing out at the beginning of the operation, which avoids the discomfort to the user.



With the independent dehumidification function, the unit can efficiently dehumidify the room and give you more comfort.



Follow M

Temperature sensor built in the remote control will sense its surrounding temperature, so the unit can achieve accurate and comfortable temperature control just like the air conditioner is following you.



3D Air Flow

Combine vertical and horizontal auto swing to ensure an even distribution of air fow throughout the room.



Fast Cooling /Heating

Startup at high frequency increases cooling/heating capacity and reduces time to reach set temperature, thus you can enjoy cooling and heating in seconds.



Auto swing

Distributes cool/warm air to maximum area by moving horizontal and vertical fags automatically.



Dimme

Press this button to shut off the display light on the front panel.



Cilent

Indoor fan will run at super breeze speed and indoor noise level can be extremely low when the unit enters silent mode operation.

Reliability



Self-diagnosis Function

Once abnormal operation or parts failure happen, the unit will monitor the failures, the microcomputer of air conditioner will switch off and protect the system automatically when it happens. Meanwhile, the error or protection code will be displayed on the indoor unit.



No Frosting Chassis

The unique pipeline design makes the temperature on chassis higher than normal units, and it prevents defrosting water accumulated, which improves heat transfer efficiency and solves the drainage problem.



Low Ambient Cooling

With special designed PCB, outdoor fan speed can be changed automatically according to condensation temperature. The air conditioner can run cooling operation even when the outdoor ambient temperature down to -15°C.



Golden Fin

Effectively prevent bacteria breeding and improve heat transfer efficiency. The unique anti-corrosive golden coating on the condenser can withstand the rain, salty air and other corrosive elements.



Intelligent Defrosting

Normal defrost function can only be operated in certain time,but Rosenberg commercial start automatically according to the air conditioner's intelligent defrost can sur-rounding condition.



Compressor Heating Belt

Auxiliary heating belt can increase compressor oil temperature in winter and prevent defrosting water accumulated, which improves heat transfer efficiency.



Optional Electric Heater

Built-in auxiliary electric heater as option, the heating performance will be more powerful.



Fire-proof Electric Box

Electrical control box adopts new design, which can meet the higher fire safety requirement to prevent the internal fire due to the electric spark accident.





Duct Series



Slim Duct





Mid ESP Duct





High ESP Duct





Fresh Air Processor



FEATURES







Intelligent Defrosting



Class Made











Central Contro

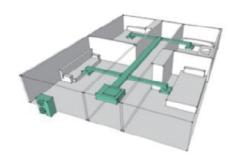


High ESP Duct



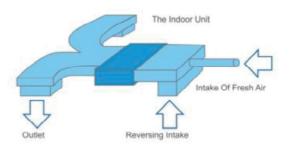
Long Distance Air Supply

High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable To A Variety Of Room Types

Specific ESP design can be applied to various room types easily, like rooms of L type or U type; the air outlet can be set separately from the indoor unit, so the air flow can be equally distributed even the room is in irregular structure.



Room1: L Type

Room2: U Type

Room3: Narrow Type

Specification-50Hz AC fan motor

Model	Indoor		DHD-H112S	DHD-H125S	DHD-H140S	DHD-H150S	DHD-H224S	DHD-H280S	DHD-H450W	DHD-H560W
0	Cooling	kW	11.2	12.5	14.0	15.0	22.4	28.0	45.0	56.0
Capacity	Heating	kW	12.8	13.3	15.0	16.0	25.0	31.5	49.5	61.5
Electric Date	Power Supply	V~,Hz,Ph	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	220~240,50,1	380~415,50,3	380~415.50.3
Electric Data	Rated Power	W	600	600	600	600	1250	1250	2220	2220
	Air Flow Volume(Hi/Mid/Low)	m³/h	2000/1600/1400	2000/1600/1400	2000/1600/1400	2000/1600/1400	4000/3200/2600	4000/3200/2600	8000	8000
Performance	Noise Level(Hi/Mid/Low)	dB(A)	60/57/51	60/57/51	60/57/51	60/57/51	55	55	63	63
	External Static Pressure(ESP)	Pa	196	196	196	196	220	220	200	200
Dimension	Net	mm	1200×719×380	1200×719×380	1200×719×380	1200×719×380	1350×700×460	1350×700×460	2115×990×855	2115×990×855
(WxDxH)	Packing	mm	1235×760×415	1235×760×415	1235×760×415	1235×760×415	1540×810×610	1540×810×610	2225×1025×1015	2225×1025×1015
Weight	Net/Gross	kg	56/59	56/59	56/59	56/59	91/110	91/110	225/260	225/260
	Liquid Side	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)	12.7(1/2)x2	12.7(1/2)x2
Pipe Diameter	Gas Side	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)	22.2(7/8)	22.2(7/8)	22.2(7/8)x2	22.2(7/8)x2
	Drainage	mm	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN20(R3/4)	DN25	DN25	DN25	DN25
Stuffing Quantity	20/40/40H	unit	65/140/168	65/140/168	65/140/168	65/140/168	30/63/84	30/63/84	10/22/22	10/22/22

- Notes:

 1. Cooling Capacity: Indoor temperature 27°C DB/19°C WB; Outdoor temperature:35°C DB/ 24°C WB.

 2. Heating Capacity: Indoor temperature 20°C DB; Outdoor temperature: 7°C DB/ 6°C WB.

 3. Piping Length: Equivalent piping length: 7.5m, I evel difference; 0m.

 4. Sound level is measured at 1.4m below the unit.

- 5. The above designs and specifications are subject to change without prior notice. Final specifications please refer to technical specification provided by sales representative.







DRV Indoor Units

AC FAN MOTOR

SPECIFICATIONS

Model	Indoor		DHD-H112S
Capacity	Cooling	kW	11.2
Сарасіту	Heating	kW	12.8
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1
LIECTIIC Data	Rated Power	W	600
	Air Flow Volume(Hi/Mid/Low)	m³/h	2000/1600/1400
Performance	Noise Level(Hi/Mid/Low)	dB(A)	60/57/51
	External Static Pressure(ESP)	Pa	196
Dimension	Net	mm	1200×719×380
(WxDxH)	Packing	mm	1235×760×415
Weight	Net/Gross	kg	56/59
	Liquid Side	mm(inch)	9.52(3/8)
Pipe Diameter	Gas Side	mm(inch)	19.05(3/4)
	Drainage	mm(inch)	DN20(R3/4)

FEATURES

optional

■ standard



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Fresh Air Intake

Hydrophilic Aluminum Fin

Digital Tube Display





Built-in Drain Pump







Low Ambient Cooling







Washable Filter







Wired Control



Central Control

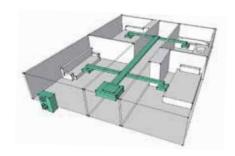
Fast Cooling/Heating



Full Process By DC Drive 0.5W Standby

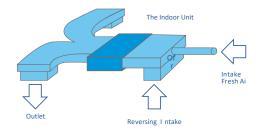
Long Distance Air Supply

High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable to A Variety Of **Room Types**







Room1: L Type

Room2: U Type

Room3: Narrow Type



High ESP Duct 12.5kw

DHD-H125S







DRV Indoor Units

AC FAN MOTOR

SPECIFICATIONS

Model	Indoor		DHD-H125S
Canacity	Cooling	kW	12.5
Capacity	Heating	kW	13.3
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1
Electric Data	Rated Power	W	600
	Air Flow Volume(Hi/Mid/Low)	m³/h	2000/1600/1400
Performance	Noise Level(Hi/Mid/Low)	dB(A)	60/57/51
	External Static Pressure(ESP)	Pa	196
Dimension	Net	mm	1200×719×380
(WxDxH)	Packing	mm	1235×760×415
Weight	Net/Gross	kg	56/59
	Liquid Side	mm(inch)	9.52(3/8)
Pipe Diameter	Gas Side	mm(inch)	19.05(3/4)
	Drainage	mm(inch)	DN20(R3/4)

FEATURES

optional

■ standard



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Digital Tube Display

Fresh Air Intake





Built-in Drain Pump





Low Ambient Cooling







Hydrophilic Aluminum Fin



Washable Filter







Wired Control



Central Control

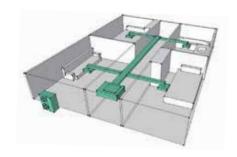
Fast Cooling/Heating



Full Process By DC Drive 0.5W Standby

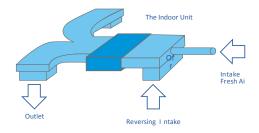
Long Distance Air Supply

High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable to A Variety Of **Room Types**







Room1: L Type

Room2: U Type

Room3: Narrow Type



High ESP Duct 14 kw

DHD-H140S







DRV Indoor Units

AC FAN MOTOR

SPECIFICATIONS

Model	Indoor		DHD-H140S
Capacity	Cooling	kW	14.0
Capacity	Heating	kW	15.0
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1
Electric Data	Rated Power	W	600
	Air Flow Volume(Hi/Mid/Low)	m³/h	2000/1600/1400
Performance	Noise Level(Hi/Mid/Low)	dB(A)	60/57/51
	External Static Pressure(ESP)	Pa	196
Dimension	Net	mm	1200×719×380
(WxDxH)	Packing	mm	1235×760×415
Weight	Net/Gross	kg	56/59
	Liquid Side	mm(inch)	9.52(3/8)
Pipe Diameter	Gas Side	mm(inch)	19.05(3/4)
	Drainage	mm(inch)	DN20(R3/4)

FEATURES

optional

■ standard



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Fresh Air Intake

Hydrophilic Aluminum Fin

Digital Tube Display





Built-in Drain Pump







Low Ambient Cooling





Washable Filter





Wired Control



Central Control

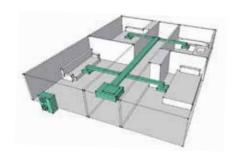
Fast Cooling/Heating



Full Process By DC Drive 0.5W Standby

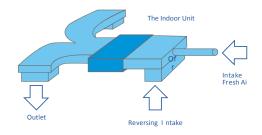
Long Distance Air Supply

High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable to A Variety Of **Room Types**







Room1: L Type

Room2: U Type

Room3: Narrow Type



High ESP Duct 15 kw

DHD-H150S







DRV Indoor Units

AC FAN MOTOR

SPECIFICATIONS

Model	Indoor		DHD-H150S
Capacity	Cooling	kW	15.0
Сарасіту	Heating	kW	16.0
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1
LIECTIIC Data	Rated Power	W	600
	Air Flow Volume(Hi/Mid/Low)	m³/h	2000/1600/1400
Performance	Noise Level(Hi/Mid/Low)	dB(A)	60/57/51
	External Static Pressure(ESP)	Pa	196
Dimension	Net	mm	1200×719×380
(WxDxH)	Packing	mm	1235×760×415
Weight	Net/Gross	kg	56/59
	Liquid Side	mm(inch)	9.52(3/8)
Pipe Diameter	Gas Side	mm(inch)	19.05(3/4)
	Drainage	mm(inch)	DN20(R3/4)

FEATURES

optional

■ standard



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Fresh Air Intake

Hydrophilic Aluminum Fin

Digital Tube Display





Built-in Drain Pump







Low Ambient Cooling







Washable Filter





Wired Control

Central Control

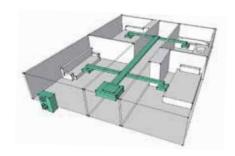
Fast Cooling/Heating



Full Process By DC Drive 0.5W Standby

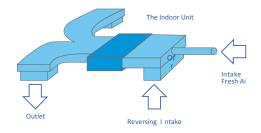


High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable to A Variety Of **Room Types**







Room1: L Type

Room2: U Type

Room3: Narrow Type



High ESP Duct 22kw

DHD-H220S







DRV Indoor Units

AC FAN MOTOR

SPECIFICATIONS

Model	Indoor		DHD-H220S
Capacity	Cooling	kW	22.0
Сарасіту	Heating	kW	25.0
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1
LIECTIIC Data	Rated Power	W	1250
	Air Flow Volume(Hi/Mid/Low)	m³/h	4000/3200/2600
Performance	Noise Level(Hi/Mid/Low)	dB(A)	55
	ce Noise Level(Hi/Mid/Low) dB(A) External Static Pressure(ESP) Pa	Pa	220
Dimension	Net	mm	1350×700×460
(WxDxH)	Packing	mm	1540×810×610
Weight	Net/Gross	kg	91/110
	Liquid Side	mm(inch)	12.7(1/2)
Pipe Diameter	Gas Side	mm(inch)	22.2(7/8)
	Drainage	mm(inch)	DN25

FEATURES

optional

■ standard



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Fresh Air Intake

Hydrophilic Aluminum Fin





Built-in Drain Pump





Fire-proof Electric Box



Low Ambient Cooling



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Washable Filter







Wired Control



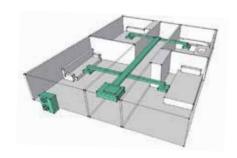
Central Control



Full Process By DC Drive 0.5W Standby

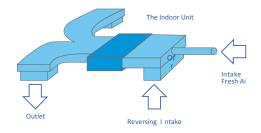
Long Distance Air Supply

High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable to A Variety Of **Room Types**







Room1: L Type

Room2: U Type

Room3: Narrow Type









DRV Indoor Units

AC FAN MOTOR

SPECIFICATIONS

Model	Indoor		DHD-H280S
Capacity	Cooling	kW	28.0
Сарасіту	Heating	kW	31.5
Electric Data	Power Supply	V~,Hz,Ph	220~240,50,1
LIECTIIC Data	Rated Power	W	1250
	Air Flow Volume(Hi/Mid/Low)	m³/h	4000/3200/2600
Performance	Noise Level(Hi/Mid/Low)	dB(A)	55
	External Static Pressure(ESP)	Pa	220
Dimension	Net	mm	1350×700×460
(WxDxH)	Packing	mm	1540×810×610
Weight	Net/Gross	kg	91/110
	Liquid Side	mm(inch)	12.7(1/2)
Pipe Diameter	Gas Side	mm(inch)	22.2(7/8)
	Drainage	mm(inch)	DN25

FEATURES

optional

■ standard



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Fresh Air Intake

Hydrophilic Aluminum Fin

Digital Tube Display





Built-in Drain Pump





Fire-proof Electric Box



Low Ambient Cooling







Washable Filter





Wired Control



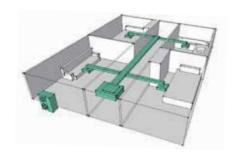
Central Control



Full Process By DC Drive 0.5W Standby

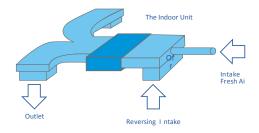
Long Distance Air Supply

High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable to A Variety Of **Room Types**







Room1: L Type

Room2: U Type

Room3: Narrow Type



High ESP Duct 45 kw

DHD-H450W







DRV Indoor Units

AC FAN MOTOR

SPECIFICATIONS

Model	Indoor		DHD-H450W
Capacity	Cooling	kW	45.0
Сарасіту	Heating	kW	49.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3
LIECTIIC Data	Rated Power	W	2220
	Air Flow Volume(Hi/Mid/Low)	m³/h	8000
Performance	Noise Level(Hi/Mid/Low)	dB(A)	63
	External Static Pressure(ESP)	Pa	200
Dimension	Net	mm	2115×990×855
(WxDxH)	Packing	mm	2225×1025×1015
Weight	Net/Gross	kg	225/260
	Liquid Side	mm(inch)	12.7(1/2)x2
Pipe Diameter	Gas Side	mm(inch)	22.2(7/8)x2
	Drainage	mm(inch)	DN25

FEATURES

optional

■ standard







Built-in Drain Pump





Fire-proof Electric Box

Fast Cooling/Heating



Hydrophilic Aluminum Fin

Digital Tube Display

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Low Ambient Cooling







Washable Filter





Wired Control



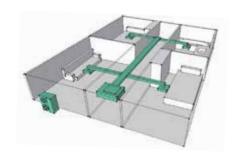
Central Control



Full Process By DC Drive 0.5W Standby

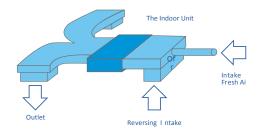
Long Distance Air Supply

High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable to A Variety Of **Room Types**







Room1: L Type

Room2: U Type

Room3: Narrow Type



High ESP Duct 56kw

DHD-H560S







DRV Indoor Units

AC FAN MOTOR

SPECIFICATIONS

Model	Indoor		DHD-H560W
Capacity	Cooling	kW	56.0
	Heating	kW	61.5
Electric Data	Power Supply	V~,Hz,Ph	380~415,50,3
	Rated Power	W	2220
Performance	Air Flow Volume(Hi/Mid/Low)	m³/h	8000
	Noise Level(Hi/Mid/Low)	dB(A)	63
	External Static Pressure(ESP)	Pa	200
Dimension	Net	mm	2115×990×855
(WxDxH)	Packing	mm	2225×1025×1015
Weight	Net/Gross	kg	225/260
Pipe Diameter	Liquid Side	mm(inch)	12.7(1/2)x2
	Gas Side	mm(inch)	22.2(7/8)x2
	Drainage	mm(inch)	DN25

FEATURES

optional

■ standard



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Fresh Air Intake

Hydrophilic Aluminum Fin





Auto Restart Function

Built-in Drain Pump





Low Ambient Cooling





Washable Filter







Digital Tube Display



Wired Control



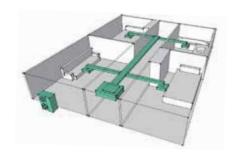
Central Control



Full Process By DC Drive 0.5W Standby

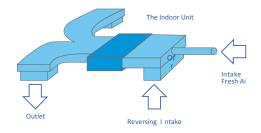
Long Distance Air Supply

High ESP makes the air supply distance up to 50m.



Fresh Air Intake

Fresh air makes indoor air healthy and comfortable.



Applicable to A Variety Of **Room Types**







Room1: L Type

Room2: U Type

Room3: Narrow Type







WE REMAIN AT YOUR DISPOSAL

Our employees will advise you personally. We are looking forward to receiving your enquiry!





Argentina
Austria
Australia
Belgium
Bulgaria
Canada
Chile
China
Cyprus
Czech Republic
Denmark
Egypt
Finland
France
Great Britain

Hungrary
Iceland
India
Indonesia
Iran
Ireland
Italy
Kirgistan
Korea
Lithuania
Malaysia
Moldova
Netherlands
New zealand
Norway

Poland
Romania
Russia
Sausi Arabia
Singapore
Slovakia
Slovenia
Spain
Sweden
Switzerland
Syria
Thailand
U.A.E. (Dubai)
Ukraine
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