FROZZINI

2015

50Hz R410a

AIR-CONDITIONERS

DEHUMIDIFIER

HEAT PUMPS

FAN COIL

FROZZINI

UNIKOM UNISAT

Put Srpskih branilaca 338 Banja Luka R.Serpska Bosnia/Hertzegovina

ELLANZA

Makedonska 2 A Zemun Belgrade Serbia


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FROZZINI

Features

Comfort

Independent Dehumidifying
Can effectively remove moisture from the room.

Turbo Cooling/heating
Maximizes cooling or heating output to rapidly cool or heat the room.

Cold Air Protection
This feature can prevent cold air being emitted prior to normal operation, thereby avoiding user discomfort.

Intelligent Defrost
Intelligently adjusts heating time to ensure the AC unit can enter heating mode as quickly as possible, thereby improving heat efficiency.

Multiple Flow Speeds
Multi-variable flow speeds, ensuring more precise control and a more comfortable breeze.

Health

Self-cleaning
Dust on the evaporator is removed by the fast-flowing condensation water while the clean button is pressed.

Cold Catalyst Filter
Eliminates formaldehyde and other volatile organic compounds, as well as harmful gases and odors.

Lonizer
Release of negative ions eliminates odors, dust and smoke, bringing you healthy and fresh air.

Others

Child Lock
Remote control button, the remote cannot be operated without being unlocked, preventing use by children and accidental use.

Convenience

Easy to Clean Panel
The indoor unit panel can be detached easily for regular cleaning.

Washable Filter
Patented disassembling technology offers easier detachment, so filter mesh may be cleaned at will.

Timer Switch
24-Hour timer can be set to automatically turn the device on and off.

Self-diagnosis
Automatic detection of abnormal operation or components, fault codes will be displayed on the indoor unit.

Auto-restart
If the unit stops unexpectedly due to a power cut, the AC unit will automatically restart in the previous mode once power is restored.

LED Display
Temperature will be shown in the LED displayer, which is functional and aesthetic.

Energy Saving

Sleep Mode
The AC will automatically increase (cooling) or decrease (heating) the temperature by 1°C within the first two hours, and then maintain a constant temperature for the next 5 hours, after that it will switch off, which maintains both energy saving and comfort.

Inner-grooved Copper Tubes
High quality inner-grooved copper increases the surface area of the inner copper wall, significantly improving thermal conductivity (heat conductivity is 20%-30% higher than that of smooth tubes).

Multi-folding Evaporator
With heat exchange area increased, multi-folding evaporator improves heat change efficiency.

Remote Control

1 OPERATION MODE
Changes the operation mode: AUTO,COOL,DRY, HEAT,FAN.

2 AIR FLOW (OPTIONAL)
Used for selection of the left/right air flow direction,whenever pressed the in flap will swing or fix (It just works on three-dimensional air flow model).

3 SWING
Changes the flap mode: natural flow, swing or fixed wind.

4 SLEEP
Changes to SLEEP operation.

5 TURBO
Changes to TURBO operation (It does not work in AUTO,DRY,and FAN mode).

6 ON/OFF
This button, when pressed starts operation and stops when repressed.

7 FAN SPEED
Sets air rate.

8 ±
Sets room temperature.

9 TIMER
Used to set the switch-on or switch-off and the timer time.

10 LAMP
Usedto turn on/off LED display.

11 CLEAN
Usedto start self-cleaning function.

Product No.

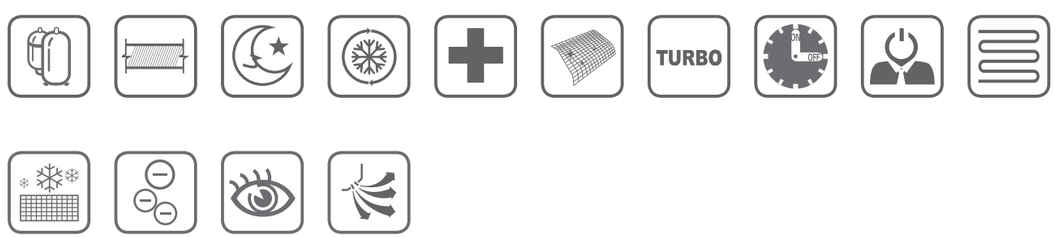
156

2015 New Product

Product No.

150

2015 New Product



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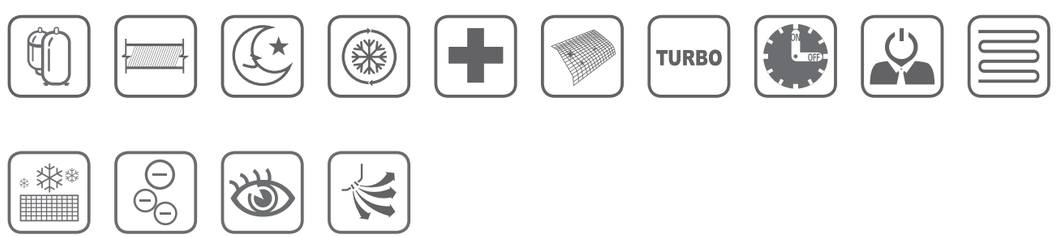

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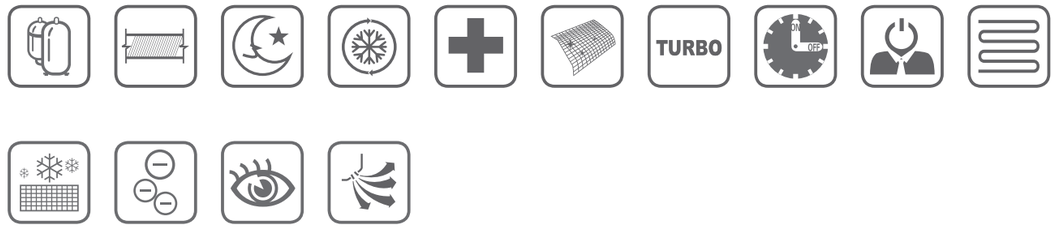

Model			KFR-25GW/A	KFR-35GW/A	KFR-51GW/B	KFR-70GW/A	KFR-35 GW INVERTER
Energy rate			B/B	B/B	C/A	B/B	A/A
Rated volt and frequency		Ph-V-Hz	220-240/50	220-240/50	220-240/50	220-240/50	220-240/50
Cooling	Cooling capacity	W	2500	3500	5100	7000	3500 (2200-3800)
	Cooling power input	W	833	1163	1809	2325	1092 (600-1400)
	Cooling current input	A	3.6	5.0	7.9	10.5	4.8(2.6-6.0)
	EER	w/w	3.00	3.00	2.82	3.00	3.21
Heating	Heating capacity	W	2600	3600	5300	7200	3700 (2400~4000)
	Heating power input	W	730	1056	1468	2100	1024(600-1300)
	Heating current input	A	3.1	4.6	6.4	9.4	4.5(2.6-5.8)
	COP	w/w	3.56	3.41	3.61	3.43	3.61
Max. input consumption		W	1000	1700	2400	3700	2400
Max. current		A	4.9	7.4	12.5	18.0	12
Compressor	Model		39A173AD&54K	44A263BK-FJKC	PA200M2CS-4KU1	PA270G2CS-4MU1	5RS102ZBC21
	Type (Rotary,Piston, scroll)		Rotary	Rotary	Rotary	Rotary	Rotary
	Brand		Rechi	Rechi	GMCC	GMCC	
Indoor	Fan motor Model		YDK-14-4 (TB-SDJ-A07Bc)	YDK-14-4 030020115	YDK-23-4 A6 320202024	YDK-30-4 320202043	YDK-16-4 3
	Fan motor Power input	W	40	40	47	63	33
	Indoor fan dia.×length	mm	φ97×583	φ97×583	φ98×715	φ102×880	φ98×622
	Indoor Air Circulation	m3/h	450	500	800	1050	500
	Indoor Noise Level dB	dB(A)	30-38	32-40	37-44	42-48	30-38
	Dimension (L×W×H)	mm	745×250×195	745×250×195	900×292×215	1080×302×220	800×280×190
	Packing (L×W×H)	mm	833×330×278	833×330×278	983×377×300	1275×392×318	865×358×275
	Net/Gross weight	Kg	9/11	9/11	13/15	16/20	10/12
Outdoor	Fan motor Model		YDK-30-6E 320222033	YDK-35-6A H (320222005)	YDK-38-6B 320222014	YDK-60A-6F 320222018	YDK-35-6HG 6
	Fan motor Power input	W	75	67	85	160	67
	Outdoor fan dia.×High	mm	φ364×115	φ408×134	φ408×134	Φ460×180	φ408×134
	Outdoor Noise Level dB	dB(A)	51	54	54	56	52
	Dimension (L×W×H)	mm	680×225×482	715×235×540	812×256×540	870*310*700	715×235×540
	Packing (L×W×H)	mm	822×345×535	851×335×600	920×335×595	990×410×780	851×335×600
	Net/Gross weight	Kg	25/29	28/33	36/40	58/64	29/33
	Refrigerant type/weight	g	R410A/520	R410A/700	R410A/1200	R410A/1450	R410A/830
Refrigerant piping	Liquid side/ Gas side/ Length	mm	φ6.0+φ9.52×3500	φ6.0+φ9.52×3500	φ6.0+φ12×4000	φ9.52+φ15.88×5000	φ6.00+φ9.52×3500
	Max. refrigerant pipe length /Max. difference in level	m	15/5	15/5	15/5	15/5	15/5

Product No.

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Product No.

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Large Capacity Water Tank

Water tank capacities of 2.5L and 8L respectively, with a visible water line. When the tank is full, the device automatically shuts down

Intelligent Defrost Mode

Indoor humidity is automatically controlled within a comfortable range and adjusted according to the humidity in the room. The function also inhibits bacterial growth

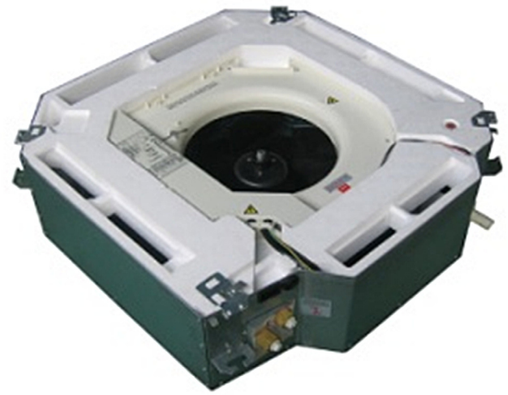
R134a environmental refrigerant

Model		CBD-12H3E-C10Z	CBD-18H3E-C10Z
Power Supply	V/Hz/Ph	220-240/50/1	220-240/50/1
Moisture removal at 30°C, 80%R.H.	L/day	12	18
Moisture removal at 27.2°C, 60%R.H.	L/day	6	10
Power input	W	260	390
Operation Current	A	1.2	1.9
Watertank Capacity	L	2.5	2.5
Air Delivety	m^3/h	100	100
Niose lever	db(A)	46	46
Net Dimension (WxHxD)	mm	260x485x285	260x485x285
Package dimension (WxHxD)	mm	345x525x305	345x525x305
Weight Net/Gross	Kg	13/14.5	13/14.5
Loading Capacity 40'HQ	Set	1310	1310

R410a environmental refrigerant

Model		CBD-40H3A-D11L
Power Supply	V/Hz/Ph	220-240/50/1
Moisture removal at 30°C, 80%R.H.	L/day	40
Moisture removal at 27.2°C, 60%R.H.	L/day	19
Power input	W	680
Operation Current	A	3.2
Watertank Capacity	L	8
Air Delivety	m^3/h	360
Niose lever	db(A)	54
Net Dimension (WxHxD)	mm	390x610x300
Package dimension (WxHxD)	mm	443x612x359
Weight Net/Gross	Kg	18.1/21
Loading Capacity 40'HQ	Set	696

E series 4-pipe system cassette type fan coil (4-way)



4-WAY CASSETTE FAN COIL(E Series-4 tube)

MODEL	air volume	COOLING CAPACITY	HEATING CAPACITY	POWER INPUT	POWER SUPPKY	REMARK
	m^3/h	W	W	W		
MFP-34KM4-Q1EE1	340	1350	1080	37	220V/1/50Hz	water pump inside,4 tubes
MFP-51KM4-Q1EE1	510	2030	1620	52	220V/1/50Hz	water pump inside,4 tubes
MFP-68KM4-Q1EE1	680	2700	2160	62	220V/1/50Hz	water pump inside,4 tubes
MFP-85KM4-Q1EE2	850	3380	2700	76	220V/1/50Hz	water pump inside,4 tubes
MFP-102KM4-Q1EE2	1020	4050	3240	96	220V/1/50Hz	water pump inside,4 tubes
MFP-136KM4-Q1EE3	1360	5400	4320	134	220V/1/50Hz	water pump inside,4 tubes
MFP-170KM4-Q1EE3	1700	6750	5400	152	220V/1/50Hz	water pump inside,4 tubes
MFP-204KM4-Q1EE3	2040	8100	6480	189	220V/1/50Hz	water pump inside,4 tubes
MFP-238KM4-Q1EE3	2380	9450	7560	228	220V/1/50Hz	water pump inside,4 tubes

DIMENSION(PANEL)		weight(panel)		DIMENSION(unit)		weight(unit)	
net	packing	net	packing	net	packing	net	packing
650*650*45	745*745*100	2.2	4	590*590*270	700*700*300	20	22
650*650*45	745*745*100	2.2	4	590*590*270	700*700*300	20	22
650*650*45	745*745*100	2.2	4	590*590*270	700*700*300	21	23
850*850*45	910*910*100	4.5	6.5	752*752*293	805*805*330	24	27
850*850*45	910*910*100	4.5	6.5	752*752*293	805*805*330	24	27
950*950*45	1005*1005*100	6	9	822*822*243	875*875*305	26	29
950*950*45	1005*1005*100	6	9	822*822*293	875*875*335	29	32
950*950*45	1005*1005*100	6	9	822*822*293	875*875*335	29	32
950*950*45	1005*1005*100	6	9	822*822*293	875*875*335	29	32

Universal type fan coil unit

Characteristic

1、Fan

Our fans are made by international professional fan manufacture with stable quality and reliable character with routine dynamic balance precise debug.
Fan runs stably and quietly.

2、Water collection tray

Tensile plate with high-grade, smooth surface spray, corrosion resistance, anti-rust;
One-time stamping molding process, without weld or solder joint;
Adopt the overall thermal insulation,in order to avoid secondary condensate drip tray;
Two-way diversion mouth slope shape design, condensate water speed, reduce the water remain inside thr tray, effectively reduce the rate of bacterial growth; large condensate tray designed to eliminate surface cooler and access to water dripping outside the interface of the phenomenon of condensation

3、Heat exchanger

Hydrophilic aluminum fin to wear high quality copper tube,high heat exchanging efficiency,large heat exchanging area,low pressure dropping,large cooling and heating capacity.
High quality material copper can support big water pressure.

4、Classical elegant design

5、Integrated models

Air volume from 340 to 2380m3/h，include 9 models and also different static pressure type；

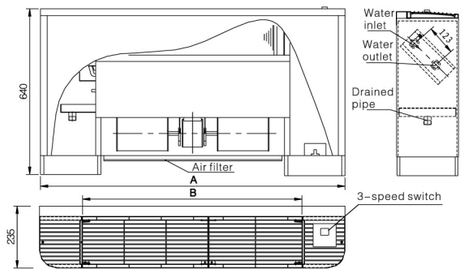
6、High efficency

Adopt good quality heat exchanger and fan, which is benifit to the heat exchanging capacity and efficiency

7、Symmetrical design, easy installation

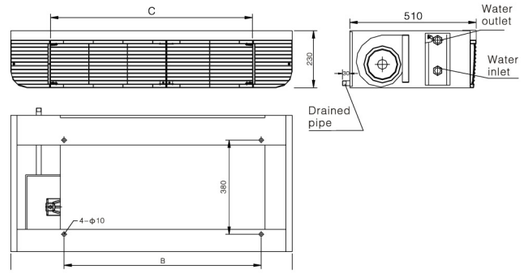
Symmetrical design, it is easy to change the unit from left(right)water tube connection to right(left) connection

Installing dimension



Item	FP-34LM	FP-51LM	FP-68LM	FP-85LM	FP-102LM	FP-136LM	FP-170LM	FP-204LM	FP-238LM
A	790	940	1020	1140	1260	1570	1720	1880	2040
B	470	620	700	820	940	1250	1400	1560	1720
C	430	580	660	780	900	1210	1360	1520	1680

Vertical installation series



Item	FP-34WM	FP-51WM	FP-68WM	FP-85WM	FP-102WM	FP-136WM	FP-170WM	FP-204WM	FP-238WM
A	790	940	1020	1140	1260	1570	1720	1880	2040
B	500	650	730	850	970	1480	1430	1590	1750
C	470	620	700	820	940	1250	1400	1560	1720

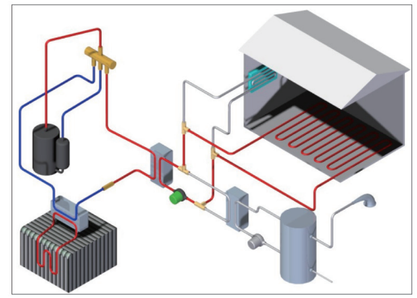
Horizontal installation series

Ground Source Heat Pump

For heatingand hot water

Heat Pump combines a well-designed, high quality outdoor unit with an indoor unit using advanced technology to produce a unique efficient and environmentally-friendly system for heating and domestic hot water.

Water heat pump is one of the most advanced and efficient heating systems available today. It can work perfectly all year around to provide you a comfortable living environment. Water heat pump can make 58¡æhot water from compressor and 65¡æhot water from compressor and added energy.

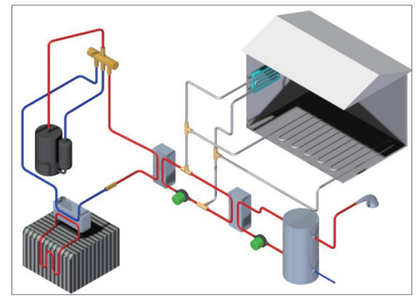


For Heating

Even in very cold winter, heat pump can also provide you a warm room temperature with radiator, convector or floor heater. A warm spring never leaves your room in the whole year.

For Sanitary Hot Water

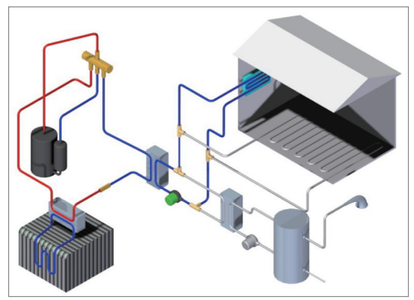
Heat Pump provides you an ideal hot water supply solution all year around. To enjoy the hot water shower and warm kitchen water with lowest cost is not a dream any more.



For cooling

Heat pump can also provide comfort cooling in hot summer. For house with radiator or under-floor heating, the cooling can be realized by adding fan coils. It delivers cooling in accordance with your demand instead of the thermostats' signal which traditional cooling system works with.

Heat Pump Provides you a perfect and comfortable cooling system together with water fan coil unit or under-floor system in hot summer.



R410a

Model		ESDWW–4C	ESDWW–7C	ESDWW–11C	ESDWW–13C	ESDWW–17C	ESDWW–20C	ESDWW–25C	ESDWW–34C	ESDWW–41C
Heating capacity	KW	3.4	6.8	10.2	13.0	17.0	20.0	25.0	34.0	41.0
Compressor	Type	Rotary			Scroll					
	QTY	1						2		
Heating power input	KW	0.67	1.36	2.04	2.60	3.40	4.00	5.00	6.80	8.20
Power supply	V/Ph/Hz	220–240/1/50				380/3/50				
Water flow (Hot Water Side)	m^3/h	0.5	1.0	1.5	2.0	2.7	3.0	4.0	5.2	6.2
Water flow (Ground Side)	m^3/h	0.5	0.9	1.4	1.8	2.4	2.7	3.6	4.7	5.6
Water pressure drop	Kpa	20	22	22	24	28	30	33	35	40
Noise	dB(A)	38	40	40	41	41	42	43	43	43
Water connection	inch	3/4"			1					1–1/2"
Net dimension (W×D×H)	mm	500×385×440		600×430×670				900×680×670		

Side Discharge Air-cooled Heat Pump

Host machine and water tank are connected with a pipe, easy to install.
Replacing brass connections and coiling within water tanks to eliminate hidden dangers such as leakage, corrosion and scale etc.
With high-efficient heat exchanger and circulating water pump in host machine.
Auto defrosting, power failure memory, multi-system protection. It can be used in conjunction with the solar water heater.

R410a

Model		ESDAW4CH	ESDAW6CH	ESDAW8CH	ESDAW11CH	ESDAW14CH	ESDAW16CH
Cooling capacity	KW	3.7	5.1	7.6	9.8	12.1	14.8
Heating capacity	KW	4	5.9	8.3	11	13.7	15.9
Compressor	Type	rotary			scroll		
	QTY	1					
Cooling power input	KW	1.2	1.7	2.5	3.3	4.0	4.9
Heating power input	KW	1.1	1.6	2.3	3.1	3.9	4.5
Power supply	V/Ph/Hz	220/1/50				380/3/50	
Water flow	m^3/h	0.8	1.0	1.4	1.9	2.4	2.7
Water pressure drop	Kpa	18	20	22	24	28	30
Noise	dB(A)	48	48	52	58		
Water connection	inch	3/4''			1		
Net dimension (W × D × H)	mm	750 × 265 × 500	930 × 280 × 550	1000 × 300 × 620	1100 × 420 × 690	1100 × 420 × 1250	

Measurement conditions:

Heating: Outdoor Air Temp.:7℃, Inlet Water Temp.: 40℃, Outlet Water Temp.: 45℃ .

Top Discharge Air-cooled Heat Pump

Host machine and water tank are connected with a pipe, easy to install.
Replacing brass connections and coiling within water tanks to eliminate hidden dangers such as leakage, corrosion and scale etc.
With high-efficient heat exchanger and circulating water pump in host machine.
Auto defrosting, power failure memory, multi-system protection. It can be used in conjunction with the solar water heater.

R410a

Model		ESDAW21CV	ESDAW27CV	ESDAW34CV	ESDAW42CV
Cooling capacity	KW	19.8	25.1	31	40
Heating capacity	KW	21	27	33.5	42
Compressor	Type	scroll			
	QTY	1		2	
Cooling power input	KW	6.6	8.4	10.3	13
Heating power input	KW	6.0	7.7	9.6	12.3
Power supply	V/Ph/Hz	380/3/50			
Water flow	m^3/h	3.6	4.6	5.8	7.2
Water pressure drop	Kpa	33	35	40	42
Noise	dB(A)	60			
Water connection	inch	1		1–1/4''	
Net dimension (W × D × H)	mm	1430 × 730 × 980			1660 × 960 × 1225

Measurement conditions:

Heating: Outdoor Air Temp.:7℃, Inlet Water Temp.: 40℃, Outlet Water Temp.: 45℃ .

Geothermal heat pump

MODEL	ESDWW-	4C	7C	11C	13C	17C	20C	25C	34C	41C
Cooling Capacity	KW	3.0	6.0	9.0	11.5	15.0	17.5	22.0	30.5	36.0
Heating Capacity	KW	3.4	6.8	10.2	13.0	17.0	20.0	25.0	34.0	41.0
Compressor	Type	Rotary			Scroll					
	Quantity	1	1	1	1	1	1	2	2	2
Cooling Power Input	KW	0.73	1.46	2.25	2.88	3.75	4.38	5.50	7.63	9.00
Heating Power Input	KW	0.67	1.36	2.04	2.60	3.40	4.00	5.00	6.80	8.20
Power Supply	V/PH/Hz	220/1/50				380/3/50				
Rated current (cooling)	Amp	3.3	6.6	10.2	13.1	7.6	8.9	11.1	15.5	18.2
Rated current (heating)	Amp	3	6.2	9.3	11.8	6.9	8.1	10.1	13.8	16.6
Water Flow (Hot Water Side)	m3/h	0.5	1.0	1.5	2.0	2.7	3.0	4.0	5.2	6.2
Water Flow (Ground Side)	m3/h	0.5	0.9	1.4	1.8	2.4	2.7	3.6	4.7	5.6
Max. hot water temp		55C°								
Water Pressure Drop	Kpa	20	22	22	24	28	30	33	35	40
Noise	dB(A)	38	40	40	41	41	42	43	43	43
Water Connections	Inch	3/4"	3/4"	3/4"	1	1	1	1	1	1-1/2"
Gross weight	kg	45	53	65	82	115	160	175	210	245
Package Dimensions	cm	63*27*64		72*64*82				100*76*85		

Air to water heat pump

MODEL	ESDAW	4CH	6CH	8CH	11CH	14CH	16CH	21CV	27CV	34CV	42CV
Cooling Capacity	KW	3.7	5.1	7.6	9.8	12.1	14.8	19.8	25.1	31	40
Heating Capacity	KW	4	5.9	8.3	11	13.7	15.9	21	27	33.5	42
Compressor	Type	rotary			scroll						
	Quantity	1						2			
Cooling Power Input	KW	1.2	1.7	2.5	3.3	4.0	4.9	6.6	8.4	10.3	13
Heating Power Input	KW	1.1	1.6	2.3	3.1	3.9	4.5	6.0	7.7	9.6	12.3
Power Supply	V/PH/Hz	220/1/50				380/3/50					
Rated current (in heating)	Amp	5	7.3	10.5	14.0	7.9	9.1	12.2	15.6	19.5	25
Water Flow	m3/h	0.8	1.0	1.4	1.9	2.4	2.7	3.6	4.6	5.8	7.2
Water Pressure Drop	Kpa	18	20	22	24	28	30	33	35	40	42
Noise	dB(A)	48	48	52	58	58	58	60	60	60	60
Water Connections	Inch	3/4"			1					1-1/4"	
Net Dimensions	mm	750x265x500	930x280x550	1000x300x620	1108x460x690	1108x460x1250		1430x735x990		1660x960x1225	

MODEL	ESDAW	55CV	65CV	80CV	110CV
Cooling Capacity	KW	52	61	76	102
Heating Capacity	KW	55	65	80	110
Compressor	Type	scroll			
	Quantity	2		3	
Cooling Power Input	KW	17.3	21.1	25.3	34.0
Heating Power Input	KW	15.7	18.8	22.9	31.4
Power Supply	V/PH/Hz	380/3/50			
Rated current (in heating)	Amp	31.8	38.1	46.4	63.6
Water Flow	m3/h	9.5	11.2	13.8	18.9
Water Pressure Drop	Kpa	44	46	50	55
Noise	dB(A)	60	62	68	71
Water Connections	Inch	1-1/2"		2	2.5
Net Dimensions	mm	1660x960x1225		2190x1437x2056	

Measurement Condition:
Heating: Ground Source Temp. 15C°, Hot Water Temp. 35C°
Cooling: Ground Source Temp. 20C°, Cooled Water Temp.12C°

Air to water heat pump (Snowland series)

Model			ESDAW-10CH/S	ESDAW-12CH/S	ESDAW-18CH/S	ESDAW-20CH/S
Specification	Heating capacity *	KW	10	11.8	17.3	19.5
	Heating power input *	KW	2.7	3.1	4.6	5.2
	Heating capacity **	KW	8	9.4	14	15.8
	Heating power input **	KW	2.6	3	4.5	5.1
	Heating capacity ***	KW	5.8	6.8	10.1	11.5
	Heating power input ***	KW	2.5	2.9	4.4	5
	COP*		3.70	3.81	3.76	3.75
	COP**		3.08	3.13	3.11	3.10
	COP***		2.32	2.34	2.30	2.30
	Max. water temperature	°C	60			
	Rated water temperature	°C	55			
	Water flow	m^3/h	1.72	2.03	2.98	3.35
	Water pressure drop	Kpa	22	24	28	30
	Net weight	kg	100	110	150	185
	Gross weight	kg	115	125	165	205
	Noise	dB(A)	52	52	55	58
	Water connections	Inch	1			
	Power supply		220V/1PH/50Hz	380V/3PH/50Hz		
	Net dimensions	mm	1110*460*850		1110*460*1250	1360*600*1280
	Packing dimensions	mm	1140*470*980		1140*470*1380	1390*610*1410
Standard components	Compressor	Brand	Copeland (EVI)			
		Quantity	1			
	Condenser		Plate heat exchanger			
	Evaporator		Hydrophilic aluminum foil + internal thread copper pipe			
	Economizer		Plate heat exchanger			
	4-way valve		yes			
	Expansion valve		Sanhua electronic expansion valve			
	Fan motor		50W		50Wx2	
	Cabinet		Galvanized white metal sheet			
	Controller		Chinese brand large LCD screen controller			
	High pressure switch		3.0/2.4MPa			
	Low pressure switch		0.02/0.15MPa			
	Working mode		Heating only			
	Refrigerant		R407C			
	Circulation pump		No (Optional)			

TECHNICAL DATA OF ESDWW-58C HEAT PUMP

Cooling capacity		kW	52
Heating capacity		kW	58
Max input power	Cooling	kW	14.9
	Heating	kW	15.6
Max input current	Cooling	A	22.6
	Heating	A	23.7
Refrigerated water flow		M3/h	8.9
Cooling water flow		M3/h	10.0
Power supply			380V/3phases/50Hz
Compressor			Sanyo compressor
Compressor quantity			2
Refrigerant			R410A
Refrigerant charge		g	3300*2
Ambient temperature		C°	-7 C° ~ 43 C°
Noise level		dB	55
Refrigerant water pipe diameter		Inch	2″
Cooling water pipe diameter		Inch	2″
Dimension (length/height/width)		mm	708×1048×750
Net weight		kg	290
Packing dimension (length/height/width)		mm	880×1120×1025
Gross weight		kg	310

Note:
1) Nominal cooling conditions: refrigerated input water temperature is 12°C, refrigerated output water temperature is 7°C, cooling input water temperature is 40°C, cooling output water temperature is 45°C,
2) Nominal heating conditions: refrigerated input water temperature is 40°C, refrigerated output water temperature is 45°C, cooling input water temperature is 20°C ,cooling output water temperature is 15°C.

TECHNICAL DATA OF ESDWW-68C HEAT PUMP

Cooling capacity		kW	61
Heating capacity		kW	68
Max input power	Cooling	kW	15.8
	Heating	kW	16,5
Max input current	Cooling	A	26,0
	Heating	A	32,4
Refrigerated water flow		M3/h	10,4
Cooling water flow		M3/h	13,0
Power supply			380V/3phases/50Hz
Compressor			Scroll compressor Copeland
Compressor quantity			2
Refrigerant			R407c
Refrigerant charge		g	3500*2
Ambient temperature		C°	-7 C° ~ 43 C°
Noise level		dB	55
Refrigerant water pipe diameter		Inch	2″
Cooling water pipe diameter		Inch	2″
Dimension (length/height/width)		mm	708×1048×750
Net weight		kg	300
Packing dimension (length/height/width)		mm	880×1120×1025
Gross weight		kg	320

Note:
1) Nominal cooling conditions: refrigerated input water temperature is 12°C, refrigerated output water temperature is 7°C, cooling input water temperature is 40°C, cooling output water temperature is 45°C,
2) Nominal heating conditions: refrigerated input water temperature is 40°C, refrigerated output water temperature is 45°C, cooling input water temperature is 20°C ,cooling output water temperature is 15°C.

WATER TO WATER HEAT PUMP

Model			ESDWW-80C	ESDWW-120C	ESDWW-160C
Specification	Heating capacity	KW	83	125	165
	Heating power input	KW	18.4	27.8	36.7
	Hot water supply	L/h	1778	2678	3535
	Rated current	A	37.2	56.3	74.3
	COP		4.5	4.5	4.5
	Max. water temperature	°C	60		
	Rated water temperature	°C	55		
	Water flow (hot water side)	m^3/h	14.3	21.5	25.80
	Water flow (ground source side)	m^3/h	11.4	17.2	20.60
	Water pressure drop	Kpa	48	55	58
	Noise	dB(A)	55	55	56
	Water connections	Inch	2.5	2.5	2.5
	Power supply		380V/3PH/50Hz	380V/3PH/50Hz	380V/3PH/50Hz
	Net dimensions	mm	1600x600x1310	2200x600x1310	2500x650x1360
	Packing dimensions	mm	1630x630x1430	2230x630x1430	2530x680x1480
Standard components	Compressor	Brand	Sanyo	Sanyo	Sanyo
		Quantity	2	3	4
	Condenser		tube in shell heat exchanger		
	Evaporator		tube in shell heat exchanger		
	4-way valve		No		
	Expansion valve		Thermal expansion valve		
	Controller		module controller		
	Working mode		heating and cooling		
	Refrigerant		R407C		
	Circulation pump		No		
Remarks	1. Test condition: Heating: Ground Source Temp. 15°C, Hot Water Temp. 35°C Cooling: Ground Source Temp. 20°C, Cooled Water Temp.12°C 2. Hot water supply: the volume of hot water heated from 15°C to 55°C at ambient temp 15°C. 3. The above is the basic configuration.				