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HEAT PUMP

Catalogue

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Model Description

A D - 12 R 1 D B A / B 300 L

A-Air source, T1
D- Dehumidifier
T-Air source, T3
W-Water source and Ground source

S-Split wall mounted
F-Floor standing
C-Cassette
P- Portable
M-Marine
G-Monoblock ducted
H-Water heater
T-Top discharge
D-Ducted (DX)
FC-Ducted (Fan coil)
AC-Pool heater
VH- Split water chiller
CC-Water chiller
SC- Split hydronic wall maunted

Capacity-1/1000, Btu

Air pressure
L-Low
M-Medium
H-High

Air volume (CFM)

Outdoor unit code

Indoor unit code

Series code

R-R22
N-R407C
D-R410A
G-R290
H-R134a
W-Water

1-220~240V/50Hz/1Ph	2-208~230V/60Hz/1Ph
3-115V/60Hz/1Ph	4-380~420V/50Hz/3Ph
5-208~230V/60Hz/3Ph	6-380~460V/60Hz/3Ph
7-100~110V/50/60Hz/1Ph	

Function \ Control	Normal AC power products			DC speed-adjustable products		
	Remote	Wire Or Keyboard	Mechanical	Remote	Wire Or Keyboard	Mechanical
Cooling only	C	A	G	K	X	O
Cooling&Heating	R	L	J	U	V	Q
Electric heating	E	F	P	B	Y	T
Heat pump	H	W	M	N	D	Z

● Split DC Inverter Air to Water Heat Pump

AVH-12V1DAA/B Serial A:

Indoor Unit
 Dimension (mm): 600*400*200
 Weight (KG): 20
 Inbuilt Electric Heater (KW): No

Outdoor Unit:
 Dimension (mm):780*255*590
 Weight (KG): 33
 Crank Heater: Yes
 Bottom Plate Heater: Yes

Working Temperature Range:-25℃/43℃
 Refrigerant Connection Size: 1/4"~1/2"

AVH-24V1DAB/F Serial A:

Indoor Unit
 Dimension (mm): 470*335*220
 Weight (KG): 24.5
 Inbuilt Electric Heater (KW): No

Outdoor Unit:
 Dimension (mm):830*310*700
 Weight (KG): 48
 Crank Heater: Yes
 Bottom Plate Heater: Yes

Working Temperature Range:-25℃/43℃
 Refrigerant Connection Size: 3/8"~1/2"



● Technical Data

R410A-50HZ

Model		AVH-12V1DAA/B	AVH-24V1DAB/F	AVH-48V1DAB/F	AVH-50D4D
Power Supply			220-240V/50Hz/1Ph		380V/50Hz/3Ph
Refrigerant			R410A		
Nominal Cooling Capacity	Btu/h	3400-15600	8800-27300	17600-54600	11942-44356
	W	1000-4600	2600-8000	5200-16000	3500-13000
Nominal Heating Capacity	Btu/h	4400-17500	11600-30700	23200-61400	24907-61416
	W	1400-5270	3400-9000	6800-18000	7300-18000
Input Power (Cooling)	W	495-1650	1100-3500	2200-7000	1500-5600
Input Power (Heating)	W	500-1650	1050-2800	2100-5600	1850-5700
Input Current (Cooling)	A	2.2-7.5	5-15.5	10-31	2.3-8.5
Input Current (Heating)	A	2.2-7.4	4.7-12.5	9.4-25	2.8-8.66
E.E.R	Btu/h-W	7.0-12.0	7.8-11.0	7.81-11.0	7.96-12.3
C.O.P	W/W	2.4-3.65	2.6-3.8	2.6-4.5	3.2-4.3
Compressor	Type	Inverter Rotary		Twin Rotary	Twin Rotary
	Quantity/System	1		2	1
Fan	Type	Axial		Axial	Axial
	Quantity	1		2	2
	Airflow	m³/h	1750	4400	7500
	Rated power	W	85	160	320
Air Side Heat Exchanger	Heat Exchanger Type	Tube-Fin		Tube-Fin	Tube-Fin
	Face Area	m²	0.395	0.705	1.41
	Row-Fins/in	2 Rows -14		2 Rows-14	2-(2 Rows-14)
	Tube.Dia	Inch	3/8 O.D.	3/8 O.D.	3/8 O.D.
Noise Level	Indoor/Outdoor	dB(A)		35/56	35/56
Water Side Heat Exchanger	Type	Tube-In-Tube		High Efficiency Tube in Shell	Plate Heat Exchanger
	Water Pressure Drop	kPa	8	8	5
	Piping Connection	Inch	G3/4"	G3/4"	G3/4"
Water Pump	Max Water Head	m		6	6
	Max Water Flow	m³/h		0.65	1.3

Note:

- Cooling condition: water in/out temperature: 12°C/ 7°C. Ambient temperature: 35°C;
 - Heating condition: water in/out temperature: 40°C/ 45°C. Ambient temperature: DB 7°C/WB 6°C;
- The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Split DC Inverter Air to Water Heat Pump



Outdoor Unit

AVH-12V1DAA/B Serial B:

Indoor Unit

Dimension (mm): 500*500*220

Weight (KG): 22.5

Inbuilt Electric Heater (KW): 2KW

Outdoor Unit:

Dimension (mm): 828*320*538

Weight (KG): 33

Crank Heater: Yes

Bottom Plate Heater: Yes

Working Temperature Range: -25 °C / 43 °C

Refrigerant Connection Size: 1/4"~1/2"



Indoor Unit



(AVH-12V1DAA/B)

● Split DC Inverter Air to Water Heat Pump



Outdoor Unit



Indoor Unit

AVH-24V1DAB/F Serial B:

Indoor Unit

Dimension (mm): 500*500*220

Weight (KG): 26.5

Inbuilt Electric Heater (KW): 2KW

Outdoor Unit:

Dimension (mm): 894*380*706

Weight (KG): 52

Crank Heater: Yes

Bottom Plate Heater: Yes

Working Temperature Range: -25 °C / 43 °C

Refrigerant Connection Size: 3/8"~1/2"



(AVH-24V1DAB/F)

● Split DC Inverter Air to Water Heat Pump



Outdoor Unit

AVH-12V1DAB/F Serial C:

Indoor Unit

Dimension (mm): 470*335*220

Weight (KG): 22.5

Inbuilt Electric Heater (KW): No

Outdoor Unit:

Dimension (mm): 828*320*538

Weight (KG): 33

Crank Heater: Yes

Bottom Plate Heater: Yes

Working Temperature Range: -25 °C / 43 °C

Refrigerant Connection Size: 1/4"~1/2"



Indoor Unit



(AVH-12V1DAA/B)

● Split DC Inverter Air to Water Heat Pump



Outdoor Unit

AVH-24V1DAB/F Serial C:

Indoor Unit

Dimension (mm): 470*335*220

Weight (KG): 24.5

Inbuilt Electric Heater (KW): No

Outdoor Unit:

Dimension (mm): 894*380*706

Weight (KG): 52

Crank Heater: Yes

Bottom Plate Heater: Yes

Working Temperature Range: -25°C / 43°C

Refrigerant Connection Size: 3/8"~1/2"



Indoor Unit



(AVH-24V1DAB/F)

● Split DC Inverter Air to Water Heat Pump

Indoor Unit

Dimension (mm): 600*300*900

Weight (KG): 65

Inbuilt Electric Heater (KW): No

Outdoor Unit:

Dimension (mm): 923*413*1436

Weight (KG): 126

Crank heater: Yes

Bottom Plate Heater: Yes

Working Temperature Range: -25°C/43°C

Refrigerant Connection Size: 3/8"~1/2"*2



Outdoor Unit



Indoor Unit

(AVH-48V1DAB/F)

● Split DC Inverter Air to Water Heat Pump



Indoor Unit
Dimension (mm): 600*300*900
Weight (KG): 50
Inbuilt Electric Heater (KW): 2KW

Outdoor Unit:
Dimension (mm): 1000*460*1200
Weight (KG): 126
Crank heater: Yes
Bottom Plate Heater: Yes

Working Temperature Range: -25 °C / 43 °C
Refrigerant Connection Size: 3/8"~3/4"

Outdoor Unit



Indoor Unit



(AVH-50D4D)

● Monoblock DC Inverter Air to Water Heat Pump



Dimension (mm): 1060*950*530

Weight (KG): 75

Inbuilt Electric Heater (KW): No

Working Temperature Range: -25 °C / 43 °C



(PVH-24V1D)

● Monoblock DC Inverter Air to Water Heat Pump



(PVH-24V1D)

Dimension (mm): 1060*950*530

Weight (KG): 75

Inbuilt Electric Heater (KW): No

Working Temperature Range:-25 °C/43 °C

● Technical Data

Model			PVH-24V1D
Power Supply		V/Hz/Ph	220-240/50/1
Refrigerant			R410A
Nominal Cooling Capacity		Btu/h	8800-27300
		W	2600-8000
Nominal Heating Capacity		Btu/h	11600-30700
		W	3400-9000
Input Power (Cooling)		W	1100-3500
Input Power (Heating)		W	1050-2800
Input Current(Cooling)		A	5-15.5
Input Current(Heating)		A	4.7-12.5
E.E.R		Btu/h.W	7.8-11.0
C.O.P		W/W	2.6-4.5
Compressor	Type		Twin Rotary
	Quantity/System		1
Fan	Type		Axial
	Quantity		1
	Airflow	m ³ /h	4200
	Rated power	W	160
Air Side Heat Exchanger	Heat Exchanger Type		Tube-Fin
	Face area	m ²	0.705
	Row-Fins/Inch		2 Rows-14
	Tube.Dia	Inch	3/8 O.D.
Noise Level	Indoor/Outdoor	dB(A)	54
Water Side Heat Exchanger	Type		Plate Heat Exchanger
	Water Pressure Drop	kPa	8
	Piping Connection	Inch	G3/4"
	Rated Water Flow	m ³ /h	1.4
Net Dimension(L×D×H)		mm	1060 × 950 × 530
Packing Dimension(L×D×H)		mm	1170 × 1060 × 645
Net Weight		Kg	75
Shipping Weight		Kg	90

Note:

1) Cooling condition: water in/out temperature:12°C/7°C, ambient temperature:35°C;

2) Heating condition: water in/out temperature: 30°C/35°C, ambient temperature:DB/WB 7/6°C.

The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Split DC Inverter Air to Water Heat Pump With Water Tank



AVH-12V1DAA-300L



AVH-24V1DAB-500L

- With Electronic Expansion Valve
- Wide working temperature range down to **-25 °C**
- Matsushita inverter compressor
- COP upto 4.2
- For creating sanitary hot water, house heating hot water and house cooling cold water.



Split DC Inverter Air to Water Heat Pump With Water Tank

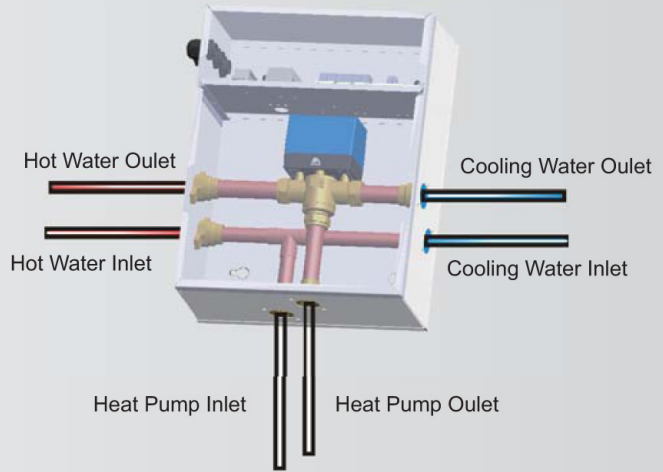
Technical Data

Model			AVH-12V1DAA-300L	AVH-24V1DAB-500L
Power Supply			220-240V/50Hz/1PH	
Refrigerant			R410A	
Nominal Heating Capacity		Btu/h	4400-17500	11600-30700
		W	1400-5400	3400-9800
Nominal Cooling Capacity		Btu/h	—	8800-27300
		W	—	2600-8000
Input Power (Heating)		W	500-1400	1050-2810
Input Power (Cooling)		W	—	1100-3500
Input Current(Heating)		A	2.2-7.4	4.7-12.5
Input Current(Cooling)		A	—	5-13.5
C.O.P		W/W	2.4~4.0	2.6~4.2
EER		Btu/h.w	—	7.8~10.9
Compressor	Type		Inverter Rotary	Twin Rotary
	Quantity/System		1	
Fan	Type		Axial	
	Quantity		1	
	Airflow	m ³ /h	1750	4400
Air Side Heat Exchanger	Heat Exchanger Type		Inner groved copper tube with hydrophilic aluminum coil	
	Tube.Dia	Inch	3/8"	3/8"
Water Side Heat Exchanger	Type		Tube-in-tube	Plate heat exchanger
	Water Pressure Drop	Kpa	45	42
	Piping Connection	Inch	3/4"	
Water Pump	Max Water Head	m	6	6
	Max Water Flow	m ³ /h	1.5	2.3
Noise Level	Outdoor	dB(A)	50	54
	Indoor		32	35
Water Volume		L	300	500
Range of setting temperature**		°C	30-52-75**	30-52-75**
Max.setting temperature		°C	75	75
Hot water capacity*		Kg/h	120	240
Range of working temperature		°C	-25~43	-25~43
Water pipe connection		inch	G3/4"	G3/4"
Max. Pressure of Water		Mpa	0.7	0.7
Inbulit Electric Heater		KW	1~3	2~3
Control of electric heater			Auto/Manual	Auto/Manual
Refrigerant pipe connection		inch	1/4" 、 1/2"	3/8" 、 1/2"
Net Dimension(L×D×H)	Outdoor Unit	mm	780 X 255 X 590	830 X 310 X 700
	Water Tank	mm	φ630 X 1840	φ700 X 1920
	Indoor Module	mm	—	540 X 365 X 1130
Packing Dimension(L×D×H)	Outdoor Unit	mm	920 X 340 X 600	970 X 410×750
	Water Tank	mm	695 X 695 X 1950	765 X 765 X 2030
	Indoor Module	mm	—	580 X 405 X 1150
Net Weight	Outdoor	Kg	33	48
	Water Tank	Kg	86	88
	Indoor Module	Kg	—	32
Packing Weight	Outdoor	Kg	36	53
	Water Tank	Kg	90	93
	Indoor Module	Kg	—	35

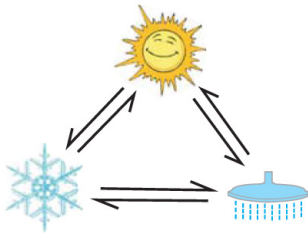
Note:

- 1) Cooling condition: water in/out temperature:12°C/7°C, ambient temperature:35°C;
- 2) Heating condition: water in/out temperature: 40°C/45°C, ambient temperature:DB/WB 7/6°C
- 3) Marked with "" means: Hot water capacity is based on testing condition: DB/WB 20°C/15°C, target water
- 4) Marked with "" means: water temperature can reach 55 °C by heat pump, and reach 75°C by using electric heater
- 5) The specifications are subject to change without prior notice. For actual specifications of unit,please refer to the stickers on the unit.

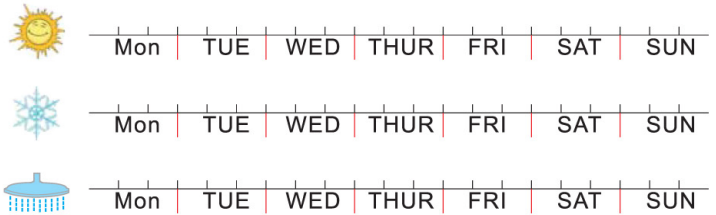
● Three - Way Valve Kit



1. Three working modes are available for supplying hot/cold water for your house heating (cooling) and sanitary hot water.



2. One week timer function.

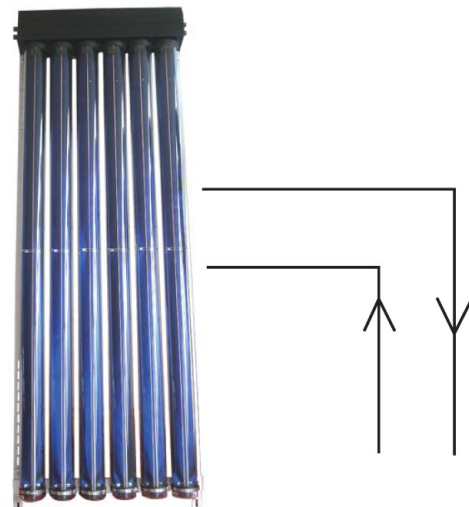
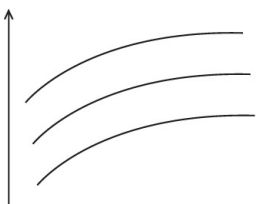


3. Bacteria kill function.



4. Control other heating sources so to guarantee enough heating output in the most economic way.

5. House heating hot water supply temperature automatic adjusting function.

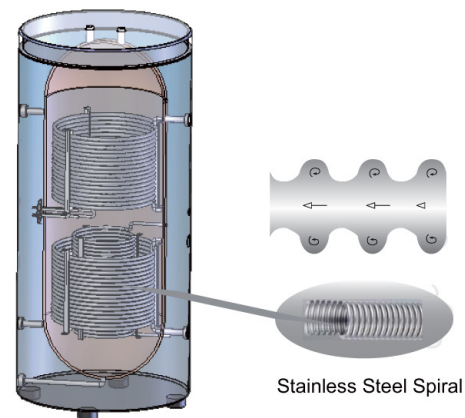


Multi-Functional Water Tank



Technical Data

Model			MWT-300B	MWT-500B
Water Volume		L	300	500
Net Dimension	High	mm	1535	1835
	Dia.	mm	700	700
Inside shell material			304s.s/316s.s	
Outside shell material			304s.s/painting metal	
Insulation Material			polyurethane injection foam	
Insulation Thickness		mm	100 (50,optional)	
Empty Weight		kg	95	120
Solar coil material			304s.s	
Solar coil tube size		mm	Dia22 x 0.3	
Solar coil length		m	10	
Solar coil capacity *		kw	3.0	
Shower coil material			304s.s	
Shower coil tube size		mm	Dia22 x 0.3	
Shower coil length		m	20+20	
Shower coil capacity **		kw	13.0	
Electric Heating capacity		kw	2~3	2~5



Stainless Steel Spiral

Remark:

Maximum working pressure: 10 bar

Maximum water temperature: 75°C

(1) * Solar coil heatexchange is based on the condition:

Water temperature inside the water tank: 20°C

Water flow rate inside the Coil tube: 20L/min, Water inlet temperature 40°C

(2) ** Shower coil heatexchange is based on the condition:

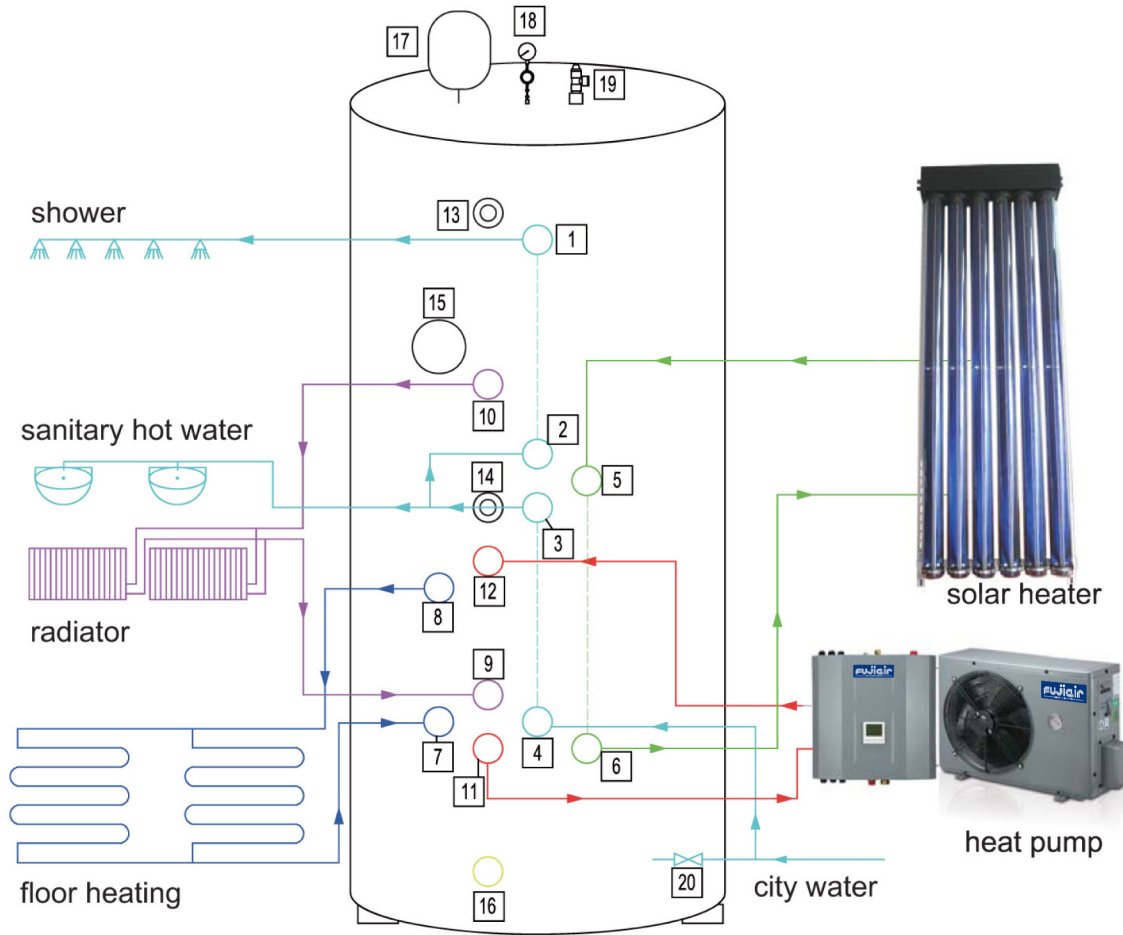
Water temperature inside the water tank: 60°C

Water flow rate inside the Coil tube: 8L/min, Water inlet temperature 15°C

The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

Multi-Functional Water Tank

Application Instruction



Multi-functional water tank

- | | | |
|-----------------------------------|---------------|--|
| 1. Ø22 shower coil 1 water outlet | } length: 20m | 11. Heat pump water outlet |
| 2. Ø22 shower coil 1 water inlet | | 12. Heat pump water inlet |
| 3. Ø22 shower coil 2 water outlet | } length: 20m | 13. Temperature meter |
| 4. Ø22 shower coil 2 water inlet | | 14. Temperature meter |
| 5. Ø22 solar coil water inlet | } length: 10m | 15. Electrical heater |
| 6. Ø22 solar coil water outlet | | 16. Drain water pipe G3/4" female |
| 7. Floor heating water inlet | | 17. Expansion tank |
| 8. Floor heating water outlet | | 18. Water pressure gauge |
| 9. Radiator water inlet | | 19. T/P valve |
| 10. Radiator water outlet | | 20. Automatic filling valve (optional) |



Automatic filling valve (optional)



T/P valve

● Heat Recovery Ventilation Water Heater--HRVWH



● Technical Data

Model		PBE-300W1D-SC	PBE-300W1D-S	PBE-300W1D
Rated heating capacity	KW	2.6	2.6	2.6
Water volume	L	300	300	300
Power input(heating)	W	800	800	800
Operating current	A	3.6	3.6	3.6
power supply	V/Ph/Hz	220/1/50	220/1/50	220/1/50
Compressor quantity		1	1	1
compressor type		Rotary	Rotary	Rotary
Airflow direction		Top discharge	Top discharge	Top discharge
Return temperature	℃	25℃~50℃ adjustable	25℃~50℃ adjustable	25℃~50℃ adjustable
Airflow	m3/h	450/430/400	450/430/400	450/430/400
Air pressure	pa	60	60	60
Duct dimension	mm	φ150	φ150	φ150
Noise level	dB(A)	48	48	48
Solar coil material		304s.s	/	/
Solar coil tube size	mm	Dia22 × 0.3	/	/
Solar coil length	m	10	/	/
Solar coil capacity ⁽¹⁾	kw	3.0	/	/
Shower coil material		304s.s	304s.s	/
Shower coil tube size	mm	Dia22 × 0.3	Dia22 × 0.3	/
Shower coil length	m	20+20	20+20	/
Shower coil capacity ⁽²⁾	kw	13.0	13.0	/
Inlet/outlet water pipe connector		DN20	DN20	DN20
Input power (Electric heating)	mm	2	2	2
Net dimension(D×H)	kw	φ700 × 1835	φ700 × 1835	φ700 × 1835
Packing Dimension (L×W×H)	mm	780/780/2000	780/780/2000	780/780/2000
Net weight	kg	105	105	105
Gross weight	kg	110	110	110

(1)Solar coil heat exchange capacity is based on working condition:inside tank water temperature:20℃,solar coil water temperature:40℃,flow rateL20L/min.

(2)Shower coil heat exchange capacity is based on working condition:inside tank water temperature:60℃, Shower coil water temperature:15℃,flow rate:8L/min

Rated heating test conditions:indoor temperature DB/WB20℃/12℃,Target water temperature 5℃.

The specifications are subject to change without prior notice. For actual pecifications of unit, please refer to the stickers on the unit.

● Heat Pump Water Heater + Air Conditioner

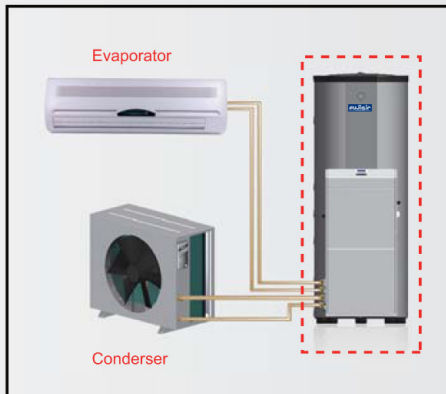
- Free hot water during cooling.
- Integrated COP ≥ 7.3 .
- Three modes available: Cooling, Hot water, Cooling + hot water.
- 2 steps compressor vibration absorbing system.
- With electronic expansion valve and water pump inside.
- Back-up electric heater inbuilt.



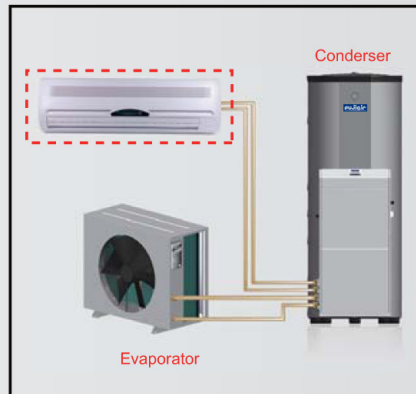
● Heat Pump Water Heater + Air Conditioner

● Three modes: Cooling, Hot Water, Cooling + Hot Water.

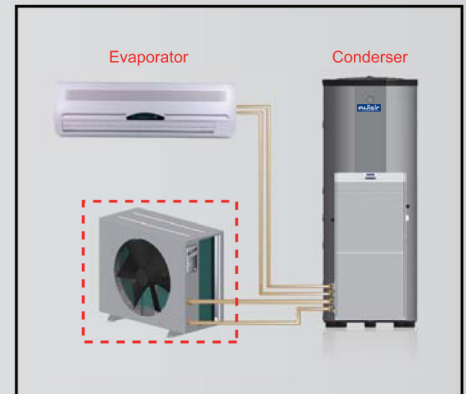
Cooling:



Hot Water:



Cooling + Hot Water :



● Technical Data

Model		MHC-36W1DAA-500L	
Power Supply		220-240V/50HZ/1PH	
Refrigerant		R410A	
Nominal Cooling Capacity	BTU/H	24500	
	KW	7.2	
Nominal Hot Water Heating Capacity	BTU/H	43600	
	KW	12.8	
General Capacity	BTU/H	68000	
	KW	20	
Input Power (Cooling)	KW	2.6	
Input Power (Hot water)	KW	2.7	
Input Power (Hot water+coolin)	KW	2.65	
EER in Cooling	W/W	2.8	
COP in Hot Water Heating	W/W	4.7	
General COP	W/W	7.3	
Water Volume	L	500	
Max. Pressure of Water	Mpa	0.7Mpa	
Water pipe connection	Inch	G3/4"	
Refrigerant pipe connection	Inch	3/8", 5/8"	
Inbulit Electric Heater	KW	3+3+3	
Range of working temperature	°C	-7°C-43°C	
Noise Level	dB(A)	50 dB(A)	
Net Dimension(L×D×H)	Indoor Unit-1	mm	915 X 700 X 1900
	Indoor Unit-2	mm	1230 X 250 X 320
	Outdoor Unit	mm	785 X 405 X 665
Packing Dimension(L×D×H)	Indoor Unit-1	mm	925 X 710 X 1930
	Indoor Unit-2	mm	1240 X 260 X 330
	Outdoor Unit	mm	795 X 415 X 700
Net Weight/Shipping Weight	Indoor Unit-1	Kg	159 /162
	Indoor Unit-2	Kg	17/18
	Outdoor Unit	Kg	30/32

(1)Heating Capacity Conditions: Outdoor temp: 20°C/15°C Tank water temp. from 15°C to 55°C ;

(2)Cooling Capacity Conditions: Indoor temp: 27°C/19°C Outdoor temp: 35°C/24°C ;

(3)Heating+Cooling capacity conditions : Indoor temp:27°C/19°C,Tank water temp. from 15°C to 55°C.

The specifications are subject to change without prior notice. For actual specifications of unit,please refer to the stickers on the unit.

● Plastic Swimming Pool Heater



● Heat Pump Sizing

Model	Capacity	Max.Pool Volume
AAC-18W1DCC/P	5.8KW	25M ³
AAC-30W1DCC/P	8.8KW	35M ³
AAC-48W1DCC/P	13KW	60M ³
AAC-52W1DCC/P	15KW	70M ³
AAC-64W4DCC/P	19KW	80M ³

● Features

- Super exquisite looking
- Plastic casing with stainless steel bottom plate, free of corrosion
- Titanium heat exchanger
- German SIKKA flow switch inbuilt
- CAREL controller optional
- Convenient water system connection
- Waterproof operation panel
- Auto defrosting

● Technical Data

R407C/R410A - Horizontal Discharge

Model		AAC-18W1DCC/P	AAC-30W1DCC/P	AAC-48W1DCC/P	AAC-52W1DCC/P	AAC-64W4DCC/P
Heating Capacity ⁽¹⁾	KW	5	8	12	14	17
	Btu/H	16500	28000	41000	47000	58000
Heating Capacity ⁽²⁾	KW	5.8	8.8	13	15	19
	Btu/H	18000	31000	45000	52000	64000
Compressor	Type	Rotary			Scroll	
	Quantity	1	1	1	1	1
Heat Power Input ⁽¹⁾	KW	0.94	1.7	2.5	2.9	3.5
Heat Power Input ⁽²⁾	KW	0.95	1.7	2.55	3	3.8
Power	V/Hz/Ph	220/50/1				380/50/3
Fan Quantity		1				
Fan Power Input	W	120	120	120	150	150
Fan Rotate Speed	Rpm	850	850	850	850	850
Water Flow Rate	m ³ /h	1-2	2-3	3-4.5	4-5.5	5.5-6.5
Water Pressure Drop	KPa	10	12	12	14	14
Noise Level	dB(A)	50	52	54	56	56
Water Connection	Inch	2				
Weight Net/Shipping	Kg	45/62	67/86	73/92	102/120	112/130
Net Dimension	mm	908 × 450 × 600		1040 × 490 × 700		1160 × 540 × 800
Shipping Dimension	mm	960 × 510 × 725		1090 × 570 × 825		1210 × 620 × 860

Note:

(1) Heating: outdoor air temperature DB/WB 15°C / 11°C, water inlet temperature 27°C.

(2) Heating: outdoor air temperature DB/WB 24°C / 19°C, water inlet temperature 27°C.

The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Air Source Swimming Pool Heater - Portable Type



● Heat Pump Sizing

Model	Capacity	Max.Pool Volume
AAC-15W*-P	4KW	20M ³
AAC-20W*-P	6KW	25M ³
AAC-24W*-P	7KW	30M ³
AAC-36W*-P	10KW	40M ³

● Features

- Flexibility on location
- For spa and small bubble pool application
- Titanium heat exchanger
- German SIKA flow switch inbuilt
- Water pump inbuilt
- CAREL controller optional
- Convenient water system connection
- Waterproof operation panel
- Auto defrosting

● Technical Data

R410A-50Hz

Model		AAC-15M*-P	AAC-20M*-P	AAC-24M*-P	AAC-36M*-P
Power Supply	V/Hz/Ph	220-240/50/1 208-230/60/1			
Heating Capacity ⁽¹⁾	KW	5	6	7.2	11.9
Heating Capacity ⁽²⁾	KW	3.19	3.85	4.73	7.92
Nominal Power Input ⁽¹⁾	KW	1.17	1.32	1.65	2.75
Running Current	A	5.3	6.00	7.50	12.50
Cop ⁽¹⁾	w/w	4.32	4.58	4.40	4.32
Compressor Type		Rotary			
Fan Motor Type		Axial Fan with External Rotor			
Fan Motor Quantity		1			
Refrigerant		R407C/R410A			
Water Pipe Connection		φ50-PVC Union			
Water Flow(Minimum/Nominal)	m ³ /h	1.3/2.5	1.5/3.0	2.1/3.6	2.7/4.8
Water Pump Type		Super low noise , low input power Circulating pump Special for SPA			
Water Pump Pressure Head	m(H ₂ O)	5			
Water Side Heat Exchanger		PVC shell- Titanium tube			
Water Pressure Drop	m(H ₂ O)	0.2		0.25	
Airflow Direction		Side Discharge			
Air Side Heat Exchanger		Mechanical expanded copper tube with blue aluminium fin			
Net Dimension (L×H×D)	mm	630 × 410 × 750		690 × 450 × 850	
Packing Dimension (L×H×D)	mm	640 × 440 × 785		710 × 470 × 900	
Net Weight	kg	50	52	55	58
Shipping Weight	kg	60	61	64	67
Noise Level	dB(A)	≤60	≤63	≤63	≤64

The Heating Capacity is Tested according to ARI Standard 1160	Ambient Temperature		Water Inlet Temperature
	Dry Bulb -T ^o [°C]	Wet Bulb -T ^o [°C]	T ^o [°C]
(1) High air temperature-Mid Humidity	80.6 [27.0]	70.7 [21.5]	80.0 [26.7]
(2) Low air temperature-Mid Humidity	50.0 [10.0]	41.9 [5.5]	80.0 [26.7]

Following Unit:
R22-60Hz,R407C-50Hz are also available from us.

● Air Source Swimming Pool Heater - Horizontal Type



Horizontal Type

● Heat Pump Sizing

Model	Capacity	Max.Pool Volume
AAC-18W1DCC	5.8KW	25M ³
AAC-30W1DCC	8.8KW	35M ³
AAC-48W1DCC	13KW	60M ³
AAC-52W1DCD	15KW	70M ³

● Features

- Titanium heat exchanger
- German SIKA flow switch inbuilt
- CAREL controller optional
- Convenient water system connection
- Waterproof operation panel
- Auto defrosting

● Technical Data

R22/407C/410A - Horizontal Discharge

Model		AAC-18W1DCC	AAC-30W1DCC	AAC-48W1DCC	AAC-52W1DCD
Heating Capacity ⁽¹⁾	KW	5	8	12	14.4
	Btu/H	16500	28000	41000	50000
Heating Capacity ⁽²⁾	KW	5.8	8.8	13	16
	Btu/H	18000	31000	45000	55000
Compressor	Type	Rotary	Rotary	Rotary	Scroll
	Quantity	1	1	1	1
Heat Power Input ⁽¹⁾	KW	0.94	1.7	2.5	3.1
Heat Power Input ⁽²⁾	KW	0.95	1.7	2.55	3.1
Power	V/Hz/Ph	220/50/1 (220/60/1)			
Fan Quantity		1	1	1	1
Fan Power Input	W	120	120	120	120
Fan Rotate Speed	Rpm	850	850	850	850
Water Flow Rate	m ³ /h	1-2	2-3	3-4.5	4-6
Water Pressure Drop	KPa	10	10	12	10
Noise Level	dB(A)	50	52	54	54
Water Connection	Inch	2"	2"	2"	2"
Weight Net/Shipping	Kg	52/57	68/76	77/82	110/124
Net Dimension	mm	818 × 380 × 550	1005 × 420 × 650	1005 × 420 × 650	1115 × 425 × 850
Shipping Dimension	mm	865 × 400 × 590	1050 × 440 × 690	1050 × 440 × 690	1165 × 490 × 900

Note:

(1) Heating: outdoor air temperature DB/WB 15°C / 11°C, water inlet temperature 27°C.

(2) Heating: outdoor air temperature DB/WB 24°C / 19°C, water inlet temperature 27°C.

The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Air Source Swimming Pool Heater - Vertical Type



Vertical Type

● Heat Pump Sizing

Model	Capacity	Max.Pool Volume
AAC-68W4DZJ	19KW	80M ³
AAC-90W4DZJ	23KW	90M ³
AAC-140W4DZK	38KW	150M ³
AAC-160W4DZL	47KW	220M ³

● Features

- Titanium heat exchanger
- German SIKA flow switch inbuilt
- CAREL controller optional
- Convenient water system connection
- Waterproof operation panel
- Auto defrosting

● Heat Pump Sizing

R22/R407C/R410A - Vertical Discharge

Model		AAC-68W4DZJ	AAC-90W4DZJ	AAC-140W4DZK	AAC-160W4DZL
Heating Capacity ⁽¹⁾	KW	19	23	38	47
	Btu/H	65000	81000	135000	162000
Heating Capacity ⁽²⁾	KW	21	26	42	52
	Btu/H	72000	90000	150000	180000
Compressor	Type	Scroll	Scroll	Scroll	Scroll
	Quantity	1	1	2	2
Heat Power Input ⁽¹⁾	KW	4.5	5.1	4.5×2	5.1×2
Heat Power Input ⁽²⁾	KW	4.5	5.1	4.5×2	5.1×2
Power	V/Hz/Ph	380/50/3 (380/60/3)			
Fan Quantity		1	1	2	2
Fan Power Input	W	200	250	250	250
Fan Rotate Speed	Rpm	670	670	670	670
Water Flow Rate	m ³ /h	5-7.5	8	15	18
Water Pressure Drop	KPa	10	10	12	12
Noise Level	dB(A)	57	57	59	59
Water Connection	Inch	2	2	3	3
Weight Net/Shipping	Kg	153/163	158/168	315/350	325/360
Net Dimension	mm	855 × 755 × 1000	855 × 755 × 1000	1500 × 840 × 1100	1500 × 840 × 1300
Shipping Dimension	mm	920 × 810 × 1035	920 × 810 × 1035	1650 × 950 × 1150	1650 × 950 × 1450

Note:

(1) Heating: outdoor air temperature DB/WB 15°C / 11°C, water inlet temperature 27°C.

(2) Heating: outdoor air temperature DB/WB 24°C / 19°C, water inlet temperature 27°C.

The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Air Source Swimming Pool Heater - Stainless steel Type



● Technical Data

Model		AAC-42W1DTB	
Refrigerant			R410A/R407C
Power Supply		V/Hz/Ph	220-240/50/1
Heating Capacity ⁽¹⁾		KW	12
Heating Capacity ⁽²⁾		KW	9
Rated Input Power ⁽¹⁾		KW	2.2
Rated Input Current ⁽¹⁾		A	10.6
Compressor	Type		Rotary
	Quantity		1
Fan	Airflow rate	m ³ /h	3500
	Power	W	150
	Quantity		1
Water Side Heat Exchanger	Type		PVC Shell-Titanium Tube
Water Flow Rate		m ³ /h	4-7
Water Pressure Drop		Kpa	5
Water Connection Pipe		mm	φ40
Noise Level		dB(A)	≤56
Net Dimension (L×D×H)		mm	565×565×835
Packing Dimension (L×D×H)		mm	580×580×855
Net Weight		Kg	75
Shipping Weight		Kg	80

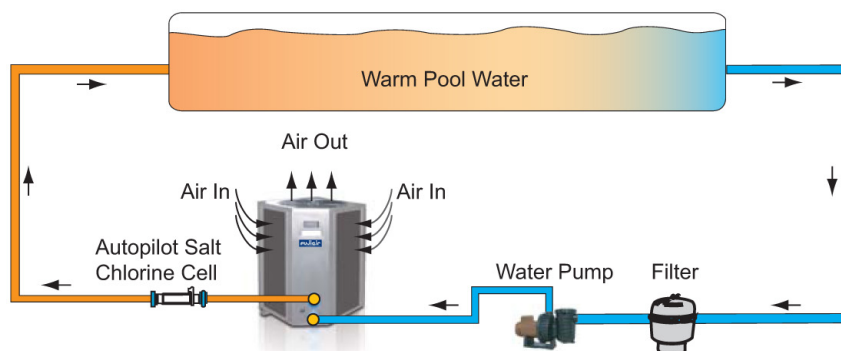
Test Conditions:

(1) Air Temperature DB/WB 27/21.5°C, Inlet Water Temperature 26.7°C

(2) Air Temperature DB/WB 10/5.5°C, Inlet Water Temperature 26.7°C

The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Application Instruction



● All - in - one Heat Pump Water Heater



- Double-jacket copper condenser coil guarantees water quality.
- Electronic Expansion Valve ensures good performance at varies working conditions.
- Super-heat coil in top of the tank guarantees high temperature outlet hot water (up to 70°C).
- Back-up electric heater inbuilt.
- Working range from -10°C to 43°C.

● Technical Data

Model		PKH-09W1DSB
Power Supply		220-240V/50HZ/1PH
Refrigerant		R410A
Rated Heating Capacity	BTU/H	12000
	W	3500
Power Input	W	940
COP	W/W	3.7
Inbulit Electric Heater	KW	1.5
Max. Setting Water Temp.	°C	50°C
Max. Outlet Water Temp.	°C	75°C
Range of working Temp.	°C	-7°C-43°C
Water Volume	L	150L
Max. Pressure of Water	Mpa	0.7
Piping Connection	Inch	G3/4"
Noise Level	dB(A)	49
Net Dimension	mm	552 X 573 X 1565
Packing Dimension	mm	562 X 583 X 1600
Net Weight	Kg	73
Shipping Weight	Kg	75

(1) Rated heating test condition: Air Temperature DB/WB 20°C/15°C Inlet/Outlet Water Temperature 15°C/50°C.
The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Air Source Domestic Heat Pump Water Heater - Side Discharge



● Technical Data

Water Heater

Model		AH-09W	AH-12W	AH-24W
Power Supply	V/Hz/Ph	208-240/50/1		
Hot water output*	L/h	65	120	240
Average Heating Capacity*	KW	2.7	4.8	9.6
Nominal Power Input	KW	0.60	1.30	2.60
Current	A	2.7	6.2	12.2
Refrigerant		R22/R410A		
Water Circle Connection	Inch	3/4" or 1/2"		
Water Temp. Set Range**	°C	30~55~75**		
Water Pump Quantity		1		
Max. Water Temp.	°C	75		
Max. Ambient Temp.	°C	43		
Min. Ambient Temp.	°C	-5		
Max. Pressure of Water	Mpa	0.7		
Recommand Water Tank	L	100-500	100-500	500-1000
Electrical Heater Control		Auto/Manual		
Noise Level	dB(A)	60	60	64
Weight	kg	37	65	80
Net Dimension (LxDxH)	mm	778×320×504	953×360×555	1010×370×614
Packing Dimension (LxDxH)	mm	820×415×510	1013×380×575	1060×390×634

Efficiency comparison

Equipment	Cost of water heating (USD/ton)	Efficiency
Heat Pump Water Heater	1.0	450%
Electric Water Boiler	4.0	95%
Diesel Fueled Water Boiler	2.1	60%
Gas-Fired Water Heater	3.0	80%
Solar Source Water Heater	1.4	Remark

Remark: Cost of electric water heater in 150 cloudy and rainy days equals that of heat pump water heater in 650 days

Water Tank

Model		AH-100L	AH-150L	AH-200L	AH-260L	AH-320L	AH-500L
Water Volume	L	100L	150L	200L	260L	320L	500L
Electrical Heater Power Supply	V/Hz/Ph	208-240/50/1					
Electrical Heater Capacity	KW	2			3		
Electrical Heater Stage	KW	1/1			1.5/1.5		
Current	A	9	9	9	14	14	14
City Water Inlet	Inch	3/4"					
Hot Water Outlet	Inch	3/4"					
Water Circle Connection	Inch	3/4"					
Drain	Inch	1/2"					
Water Temp. Set Range	°C	30~75					
Max. Water Temp	°C	75					
Empty Weight		29	34	41	55	65	80
Net Dimension		Φ470x1000	Φ470x1420	Φ560x1300	Φ560x1530	Φ560x1800	Φ700x1800
Packing Dimension (L×D×H)	mm	500x500x1030	500x500x1450	590x590x1330	590x590x1560	590x590x1830	730x730x1830

Note:

- 1) The water tank electrical heater just for the requirement of high water temperature and for the maintenance of the water heater.
- 2) The user needs to set the power supply according to the maximum electric current of the Water Heater and the Water tank.
- 3) Marked with ** means: water temp.can reach 55°C by heat pump water heater,and reach 75°C by using electrical heater simultaneously.
- 4) Marked with * means: ambient temp. is DB/WB 20/15°C, water inlet/outlet temperature is 15°C/50°C.
- 5) The specifications are subject to change without prior notice. For actual pecifications of unit, please refer to the stickers on the unit.

● Monoblock Air to Water Reversed Cycle Heat Pump



● Technical Data

R410A-50HZ

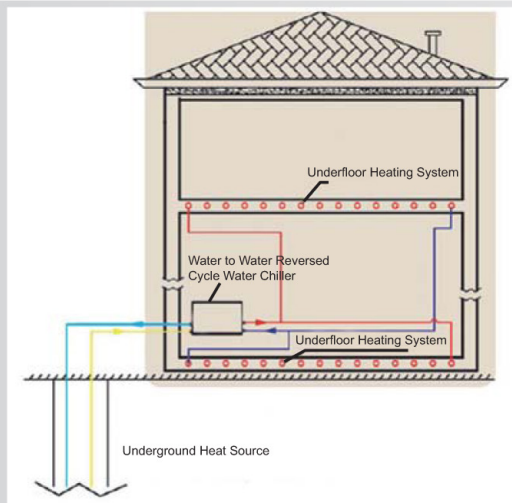
Model	Cooling & Heating		ACC-18L1DAA	ACC-30L1DAA	ACC-48L1DAB	ACC-48L4DAB	ACC-60L4DAB
	Cooling Only		ACC-18A1DAA	ACC-30A1DAA	ACC-48A1DAB	ACC-48A4DAB	ACC-60A4DAB
Power Supply		V/Hz/Ph	220/50/1			380-415/50/3	
Refrigerant			R410A/R22				
Cooling Capacity		Btu	18000	29500	48000	48000	60000
		W	5000	8650	14000	14000	17500
Heating Capacity		Btu	18500	30500	48000	48000	60000
		W	5400	8950	14000	14000	17500
Input Power	Cooling	W	1920	3200	5500	5500	6980
	Heating	W	1930	3300	5380	5380	6730
Current	Cooling	A	9.4	15.0	25.0	8.4	10.6
	Heating	A	9	15.2	24.5	8.2	10.3
E.E.R		Btu/h/w	9	9.2	8.7	8.7	8.6
C.O.P		W/W	2.6	2.7	2.6	2.6	2.5
Compressor	Type		Rotary			Scroll	
	Quantity/System		1			1	
Fan	Type		Axial Fan with external rotor		Axial Fan	Axial Fan	
	Quantity		1	1	2	2	2
	Airflow Rate	m ³ /h	3500	4500	3000×2	3000×2	4500×2
	Rated power × Quantity	W	190×1	220×1	165×2	165×2	315×2
Air Side Heat Exchanger	Heat Exchanger Type		Air cooled fin-tube heat exchanger				
	Face area	m ²	0.74	0.74	1.13	1.13	1.13
	Row-Fins/in		1 Row/14	2 Rows/14	2 Rows/14	2 Rows/14	
	Tube.Dia	Inch	5/16O.D.	5/16O.D.	3/8 O.D.	3/8 O.D.	
Noise Level		dB(A)	68	68	60	60	68
Water Side Heat Exchanger	Type		Shell and tube				
	Water Pressure Drop	kPa	20	16	16	16	20
	Piping Connection	Inch	G3/4"	G1"	G1"	G1"	G1"
	Water Flow	m ³ /h	0.92	1.6	2.5	2.5	4.2
Water-Pump Input Power		W	75	175	780	780	780
Net Dimension	L×D×H	mm	1060 × 425 × 710		960 × 480 × 1170	960 × 480 × 1170	
Packing Dimension	L×D×H	mm	1090 × 515 × 740		1010 × 590 × 1310	1010 × 590 × 1310	
Net Weight		kg	98	130	151	151	161
Packing Weight		kg	112	144	165	165	175

Note:

- 1) Cooling condition: water in/out temperature:12°C/7°C. Ambient temperature:35°C;
- 2) Heating condition: water in/out temperature: 40°C/45°C, Ambient temperature:DB/WB 7/6°C.

The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Monoblock On/Off Water to Water Reversed Cycle Heat Pump



Advantages

- With two water pumps inside
- Flow switch protection
- High/low pressure protection
- Anti-freezing protection

Monoblock On/Off Water to Water Reversed Cycle Heat Pump

Technical Data

Model		WHC-18L	WHC-24L	WHC-30L	WHC-36L	WHC-42L	WHC-48L	WHC-60L	WHC-72L	WHC-90L	WHC-120L	WHC-150L	WHC-180L	
Refrigerant		R410A/R407C/R22												
Power Supply		220~240V/50Hz/1PH, 208~230V/60Hz/1PH					308~420V/50Hz/3PH, 208~230V/60Hz/3PH							
Water-Loop														
Cooling Capacity	Btu/h	13100	17400	22100	25600	30800	36400	44800	52500	64100	92200	110100	123000	
	KW	3.8	5.1	6.5	7.5	9.0	10.7	13.1	15.4	18.8	27.0	32.2	36.0	
Heating Capacity	Btu/h	17400	23200	29400	34100	41000	48500	59700	70000	85400	122900	146800	165000	
	KW	5.1	6.8	8.6	10.0	12.0	14.2	17.5	20.5	25.0	36.0	43.0	48.0	
Input Power(Cooling)	E.E.R.	12.0	12.2	10.6	10.2	10.2	10.6	10.2	10.2	10.2	10.6	10.6	11.6	
	KW	1.1	1.4	2.1	2.5	3.0	3.5	4.4	5.1	6.2	8.8	9.6	10.5	
	A	5.6	7.1	10.6	12.6	5.1	5.9	7.4	8.6	10.5	14.9	16.2	17.7	
Input Power(Heating)	C.O.P.	4.3	4.3	3.6	3.6	3.5	3.6	3.6	3.7	3.6	3.7	4.1	4.1	
	KW	1.2	1.6	2.4	2.8	3.4	4.0	4.8	5.6	6.9	9.8	10.6	11.7	
	A	6.1	8.1	12.1	14.1	5.7	6.8	8.1	9.5	11.6	16.5	17.9	19.8	
Ground-Water														
Cooling Capacity	Btu/h	14150	18790	23870	27650	33260	39310	48380	56700	69230	99580	118910	132600	
	KW	4.1	5.5	7.0	8.1	9.7	11.5	14.2	16.6	20.3	29.2	34.8	38.8	
Heating Capacity	Btu/h	14616	19488	24696	28644	34440	40740	50148	58800	71736	103236	123312	137500	
	KW	4.3	5.7	7.2	8.4	10.1	11.9	14.7	17.2	21	30.2	36.1	40.2	
Input Power(Cooling)	E.E.R.	14.0	14.3	12.0	12.0	12.2	12.0	12	12.0	12.2	12.6	13.7	13.7	
	KW	1.0	1.3	2.0	2.3	2.7	3.3	4	4.6	5.7	8.0	8.7	9.7	
	A	5.1	6.6	10.1	11.6	4.6	5.6	6.8	7.8	9.6	13.5	14.7	16.4	
Input Power(Heating)	C.O.P.	3.6	3.8	3.1	3.1	3.2	3.1	3.2	3.2	3.2	3.2	3.6	3.6	
	KW	1.2	1.5	2.3	2.7	3.2	3.8	4.6	5.3	6.5	9.3	10.1	11.2	
	A	6.1	7.6	11.6	13.6	5.4	6.4	7.8	8.9	11.0	15.7	17.1	18.9	
Ground-Loop														
Cooling Capacity	Btu/h	14150	18790	23870	27650	33260	39310	48380	56700	69230	99580	118910	132600	
	KW	4.1	5.5	7.0	8.1	9.7	11.5	14.2	16.6	20.3	29.2	34.8	38.8	
Heating Capacity	Btu/h	12180	16240	20580	23870	28700	33950	41790	49000	59780	86030	102760	114700	
	KW	3.6	4.8	6	7	8.4	9.9	12.2	14.4	17.5	25.2	30.1	33.6	
Input Power(Cooling)	E.E.R.	14.0	14.3	12.0	12.0	10.2	10.0	10.2	10.2	10.2	12.6	13.7	13.7	
	KW	1.0	1.3	2.0	2.3	2.7	3.3	4	4.6	5.7	8.0	8.7	9.7	
	A	5.1	6.6	10.1	11.6	4.6	5.6	6.8	7.8	9.6	13.5	14.7	16.4	
Input Power(Heating)	C.O.P.	3.0	3.0	2.6	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.9	2.9	
	KW	1.2	1.6	2.3	2.8	3.3	4.0	4.7	5.5	6.7	9.6	10.4	11.6	
	A	6.1	8.1	11.6	14.1	5.6	6.8	7.9	9.3	11.3	16.2	17.6	19.6	
Compressor Type		Rotary					Scroll							
Compressor Qty.		1					1							
Comp.Rated Input Power		W	1206	1610	2320	2830	3320	3830	4700	5220	6640	9500	10440	13500
User side														
Heat-Exchanger Type		Tube-tube/Tube-Shell/Plate										Plate		
Water Pump		W	90	90	180	180	250	370	370	550	550	750	750	750
Water Flow		m ³ /h	1.25	1.25	2.13	2.12	2.48	3.40	3.4	5.00	5.00	8.10	8.10	8.10
Water Head		m(H ₂ O)	4	4	5	5	5	7	7	9	9	11	11	11
Water Pre. Drop		m(H ₂ O)	0.7	0.7	1.1	1.4	1.5	1.8	1.8	2.1	2.1	1.8	1.8	1.8
Water Connection Pipe		Inch	3/4	3/4	1	1	1	1	1	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
Source side														
Heat-Exchanger Type		Tube-tube/Tube-Shell/Plate										Plate		
Water Pump		W	90	90	180	180	250	370	370	550	550	750	750	750
Water Flow		m ³ /h	1.21	1.21	2.05	2.03	2.38	3.26	3.26	4.79	4.79	7.78	7.78	7.78
Water Head		m(H ₂ O)	4	4	5	5	5	7	7	9	9	11	11	11
Water Pre. Drop		m(H ₂ O)	0.7	0.7	1.1	1.4	1.5	1.8	1.8	2.1	2.1	1.8	1.8	2.8
Water Connection Pipe		Inch	3/4	3/4	1	1	1	1	1	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
Noise Level		dB(A)	40	40	40	42	42	43	43	46	46	47	47	47
Net Dimension(LxDxH)		mm	754 × 465 × 500			854 × 505 × 529		854 × 505 × 686			1010 × 655 × 850		1320 × 780 × 980	
Packing Dim. (LxDxH)		mm	804 × 520 × 520			904 × 560 × 549		904 × 560 × 706			1060 × 715 × 870		1370 × 830 × 1000	
Net Weight		kg	65	73	85	96	103	115	127	141	153	187	205	240
Shipping Weight		kg	71	79	93	104	111	125	137	151	163	199	220	260

Test conditions*--R410A/50HZ	Water temp. (°C) -cooling function		Water temp.(°C) -heating function	
	Load side--Inlet	Source side--Inlet	Load side--Inlet	Source side--Inlet
Water-Loop	12°C	30°C	40°C	20°C
Ground-Water	12°C	25°C	40°C	10°C
Ground-Loop	12°C	25°C	40°C	0°C

Welcome to contact us for more details. All above data are subject to changes without prior notification.
The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● BM Fan Coil Unit



- Radiated heating, ventilated cooling.
- Thickness only **129mm**
- DC motor for super low energy consumption and noise.
- Motorized valve included.
- Unit can be mounted under ceiling, on the floor, or on the wall.

● BM Fan Coil Unit

● Technical Data

Model		BM200	BMI200	BM400	BMI400	BM600
(a)Total cooling capacity	kw	0.82	0.82	1.75	1.75	2.65
Sensible cooling capacity	kw	0.61	0.61	1.25	1.2	1.9
Water flow rate	l/h	142	142	302	302	453
Water pressure drops	kPa	7	7	8.2	8.2	22
(b)Heating capacity 50°C	kw	1.2	1.2	2.5	2.5	3.1
Water flow rate (50°C)	l/h	142	142	302	302	453
Water pressure drops (50°C)	kPa	5.5	5.5	6.5	6.5	16.5
(c)Heating capacity	kw	1.8	1.8	3.9	3.9	5.5
Water flow rate (70°C)	l/h	162	162	343	343	471
Water pressure drops (70°C)	kPa	6.7	6.7	7.5	7.5	16.5
Coil water content	l	0.48	0.48	0.85	0.85	1.15
Maximum operating pressure	bar	10	10	10	10	10
Water pipe fittings	inches	G 3/4"	G 3/4"	G 3/4"	G 3/4"	G 3/4"
(d)Air flow rate max	m3/h	160	160	320	320	460
(d)Air flow rate min	m3/h	50	50	150	150	200
Supply voltage	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max.current absorption	A	0.22	0.22	0.24	0.24	0.31
Max.cpower absorption	W	45	45	55	55	66
(e)Sound power min-max	dB(A)	41.6	41.6	42.5	42.5	43.6
(e)Sound pressure min-max	dB(A)	25.3	25.3	28.2	28.2	29.1
Total length	mm	697	479	897	679	1097
Total height(without feet)	mm	579	576	579	576	579
Total depth	mm	129	126	129	126	129
Net weight	kg	16	9	19	11	22

Model		BMI600	BM800	BMI800	BM1000	BMI1000
(a)Total cooling capacity	kw	2.65	3.3	3.3	3.9	3.9
Sensible cooling capacity	kw	1.9	2.6	2.6	3.1	3.1
Water flow rate	l/h	453	573	573	655	655
Water pressure drops	kPa	22	18.5	18.5	26	26
(b)Heating capacity 50°C	kw	3.1	4.1	4.1	4.9	4.9
Water flow rate (50°C)	l/h	453	573	573	655	655
Water pressure drops (50°C)	kPa	16.5	14	14	18.2	18.2
(c)Heating capacity	kw	5.5	7.1	7.1	8.2	8.2
Water flow rate (70°C)	l/h	471	600	600	714	714
Water pressure drops (70°C)	kPa	16.5	14.0	14.0	19.6	19.6
Coil water content	l	1.15	1.48	1.48	1.82	1.82
Maximum operating pressure	bar	10	10	10	10	10
Water pipe fittings	inches	G 3/4"	G 3/4"	G 3/4"	G 3/4"	G 3/4"
(d)Air flow rate max	m3/h	460	580	580	650	650
(d)Air flow rate min	m3/h	200	300	300	400	400
Supply voltage	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max.current absorption	A	0.31	0.35	0.35	0.42	0.42
Max.cpower absorption	W	66	80	80	90	90
(e)Sound power min-max	dB(A)	43.6	42.8	42.8	44	44
(e)Sound pressure min-max	dB(A)	29.1	26.5	26.5	28	28
Total length	mm	879	1297	1079	1497	1279
Total height(without feet)	mm	576	579	576	579	576
Total depth	mm	126	129	126	129	126
Net weight	kg	16	25	17	31	23

Notes:(a)Water temperature at coil inlet 7°C, Water temperature at coil outlet 12°C, Room temperature 27°C db and 19°C wb (b) Water temperature at coil inlet 50°C, water flow rate as for cooling + plate, ambient air temperature at inlet 20°C. (c) Water temperature at coil inlet 70°C, water temperature at coil outlet 60°C, ambient air temperature at inlet 20°C. (d) Air flow measured with clean filters. (e) Sound power measured as per ISO23741/2 Standards. -Sound pressure measured as per UNI EN ISO 7779:2001.

The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

● Ductless High Wall Mounted Hydronic Fan Coil Unit



● Technical Data

Model				SC-09Y			SC-12Y			SC-18Y		
Water Temp. *			°C	5/60	7/50	9/45	5/60	7/50	9/45	5/60	7/50	9/45
Cooling Capacity **		H	Btu/H	10050	9000	8100	12800	11500	10350	20050	18000	16200
		M		8780	8000	7200	11100	10000	9200	17500	15800	14200
		L		8150	7400	6660	10200	9450	8500	16200	14500	13200
Heating Capacity **		H	Btu/H	14800	11500	9800	18500	14500	12500	29400	23500	20000
		M		12800	10000	8500	16000	12600	10500	25000	20200	17000
		L		10200	8150	7050	12750	10200	8900	20050	16400	14200
Coil data		Tube Diameter	mm	7								
		Rows/Fins		2R/16 fin								
		Fin Height/Length	mm	211x656			211x776			433x961		
		Face Area	m ²	0.13			0.164			0.416		
Motor data		Type		Asynchronous Motor								
		Qty		1								
		Power Output	W	12			35			50		
Fan data		Fan Speed	H	1350			1350			1300		
			M	1150			1100			1100		
			L	950			950			950		
		Type		Cross-flow fan								
		Qty		1								
Air Flow		H	m ³ /h	493			697			1088		
		M		442			595			935		
		L		340			476			731		
Water Flow			m ³ /h	0.468			0.576			0.936		
Power Supply				220-240V/50Hz/60Hz/1Ph 110-127V/50Hz/60Hz/1Ph								
Power Input			W	25			30			75		
Noise Level at high speed			dB(A)	35			35			37		
Pipe Connector Size				G1/2								
Drain Connection--(O.D)			mm	16			16			16		
Water Pressure Drop			Kpa	15			20			20		
Control Type				Wireless								
Bypass Valve				Yes								
Net Dimension (L×D×H)			mm	780×280×175			1020×310×205			1250×320×230		
Packaging Dimension (L×D×H)			mm	845×350×235			1070×390×275			1280×385×285		
Net Weight			Kg	9			14.5			18		

Note:

- 1) Water Temp. marked with* : 5/60 means 5°C water inlet in cooling mode and 60°C water inlet in heating mode.
- 2) Marked with ** means that Cooling/Heating Capacity are stated at different fan speed. "H", high fan speed; "M", medium fan speed; "L" low fan speed.
- 3) Nominal capacity test condition, Cooling: 7°C water inlet, room temperature is DB/WB 27°C/19°C, Heating: 45°C water inlet, room temperature is DB/WB 21/15°C.
- 4) Water flow is defined at 5°C temperature difference between water outlet and inlet in cooling mode.
- 5) High Wall Mounted Fan Coil Unit without motorized valve is also available.
- 6) The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

Decorative Wall Mounted Hydronic Fan Coil Unit



Technical Data

Model			UDFC-07 L1WCA-200F	UDFC-09 L1WCA-300F	UDFC-12 L1WCA-400F	UDFC-15 L1WCB-500F	UDFC-18 L1WCB-600F	UDFC-24 L1WCC-800F	UDFC-30 L1WCD-1000F	UDFC-36 L1WCE-1200F
Unit Performance										
Nom. Airflow Rate	High	(L/S)	95.0	142.0	189.0	236.0	280.4	378.0	472.0	572.0
	Medium		86.0	131.0	175.0	219.0	264.0	353.0	442.0	503.0
	Low		78.0	117.0	156.0	195.0	234.0	311.0	389.0	453.0
External Static Pressure		(Pa)	Free Flow							
Cooling Capacity (3 Row Coil / 12FPI)	High	Total (kw)	1.57	2.05	2.72	3.58	4.48	6.23	7.15	8.72
		Sensible (kw)	1.15	1.55	2.07	2.63	3.25	4.44	5.25	6.36
	Medium	Total (kw)	1.47	1.95	2.63	3.43	4.29	5.99	6.86	8.04
		Sensible (kw)	1.07	1.47	1.97	2.50	3.10	4.24	5.01	5.80
	Low	Total (kw)	1.39	1.81	2.43	3.19	3.95	5.50	6.36	7.56
		Sensible (kw)	1.00	1.35	1.81	2.30	2.83	3.86	4.59	5.39
Cooling Capacity (4 Row Coil / 12FPI)	High	Total (kw)	1.98	2.65	3.62	4.59	5.66	7.76	8.60	10.47
		Sensible (kw)	1.37	1.88	2.54	3.18	3.90	5.29	6.12	7.41
	Medium	Total (kw)	1.85	2.51	3.41	4.33	5.37	7.36	8.25	9.59
		Sensible (kw)	1.27	1.77	2.39	3.00	3.70	5.00	5.85	6.73
	Low	Total (kw)	1.80	2.31	3.12	3.94	4.94	6.82	7.54	8.91
		Sensible (kw)	1.21	1.62	2.17	2.71	3.37	4.85	5.29	6.21
Noise Level	High	dB(A)	<37	<37	<39	<40	<40	<41	<42	<42
	Medium		<34	<34	<35	<37	<37	<37	<38	<39
	Low		<30	<30	<32	<33	<33	<34	<35	<36
Physical Data										
Cooling Coil Size	Fin Height	(mm)	152	152	203	152	203	203	203	203
	Fin Length	(mm)	610	610	610	864	864	1118	1295	1473
	Max. Working Pressure.		20Bar							
Coil Circuits ⁽¹⁾	3 Row Coil		3	3	4	3	4	4	6	6
	4 Row Coil		3	3	4	3	4	4	8	8
Power Supply			220V/1PH/50HZ							
Max Input Power	(w)		75	115	115	150	225	225	308	308
Max. Current	(A)		0.3	0.5	0.5	0.7	1	1	1.4	1.4
Fan Motor			3 - Speed Fan Motor							
	Output ⁽²⁾	(w)	20	30	30	40	60	60	80	80
	Qty		1	1	1	1	1	1	2	2
Fan Blower			Double Inlet Forward Curved Centrifugal Fan Blower							
	Size (Dia x L)	(Inch)	6" x 8"							
	Qty		1	1	1	2	2	2	4	4
Chilled Water Connection	3 Row Coil	(Inch)	Inner 1/2"FPT - Outer 3/4"MPT						Inner 3/4"FPT - Outer 1"MPT	
	4 Row Coil	(Inch)	Inner 1/2"FPT - Outer 3/4"MPT						Inner 3/4"FPT - Outer 1"MPT	
Drainage Connection	(Inch)	1/2"MPT					3/4"MPT			
Net Dimension	L×W×H	(mm)	830 x 525 x 260			1085 x 525 x 260		1340 x 525 x 260	1515 x 525 x 260	1695 x 525 x 260
Packing Dimension	L×W×H	(mm)	850 x 540 x 270			1105 x 540 x 270		1360 x 540 x 270	1535 x 540 x 270	1715 x 540 x 270
Net Weight ⁽³⁾	3 Row Coil	(Kg)	27.0	27.0	38.0	34.0	35.0	39.5	46.0	48.5
	4 Row Coil	(Kg)	28.5	28.5	30.0	36.0	37.0	42.0	48.5	51.0

Notes :

- (1) Coil circuits means water circuits inside our standard units, and it can be adjusted according to the actual need.
- (2) The motor output varies according to the actual ESP.
- (3) Please add 3 Kg to the net weight for calculating shipping weight.
- (4) The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.