

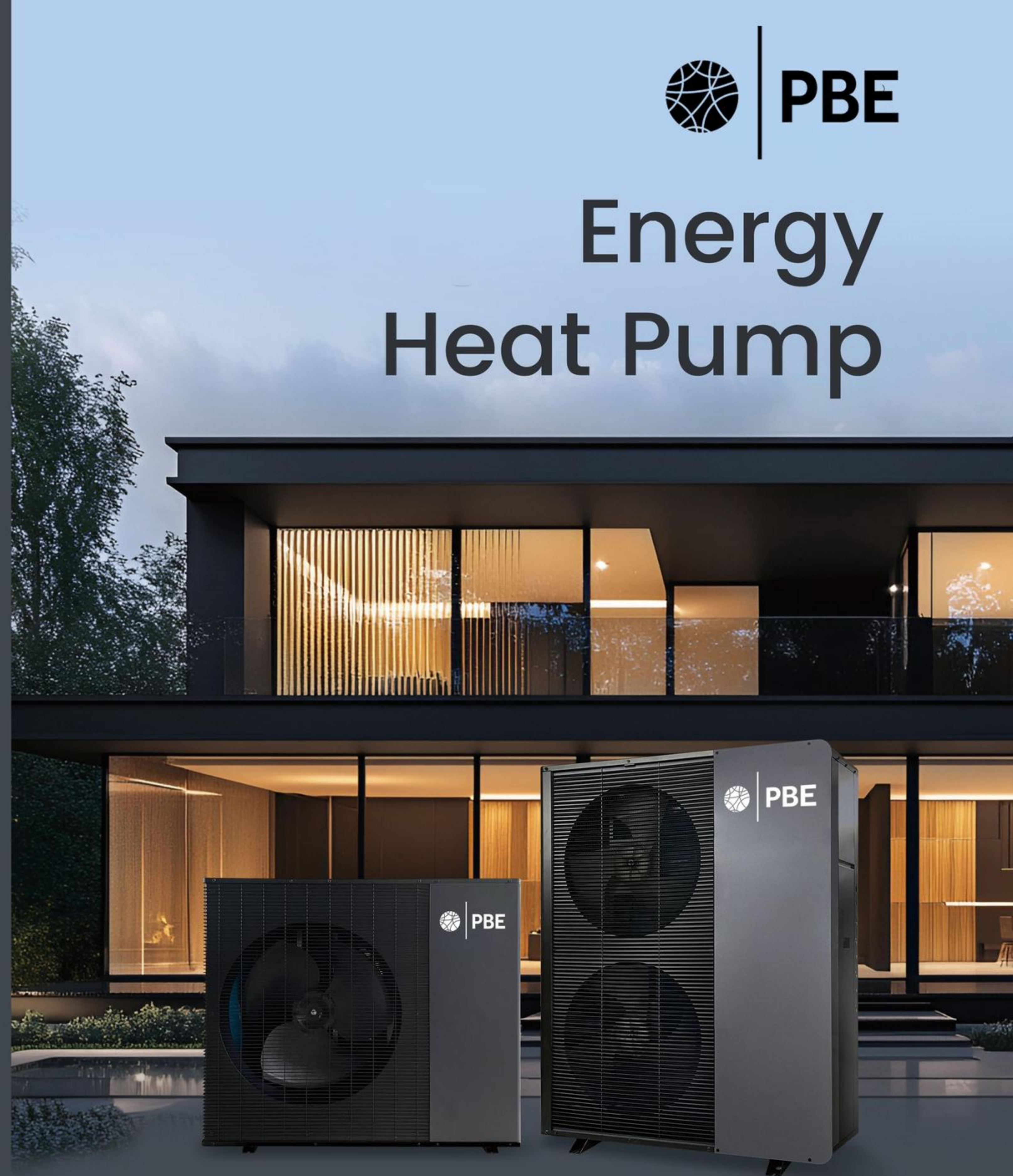


PBE



PBE

Energy Heat Pump



DC Inverter Air Source Heat Pump

35
dB

A+++
ERP LABEL

75°C
Max.Outlet
Water
Temperature

WIFI

R290

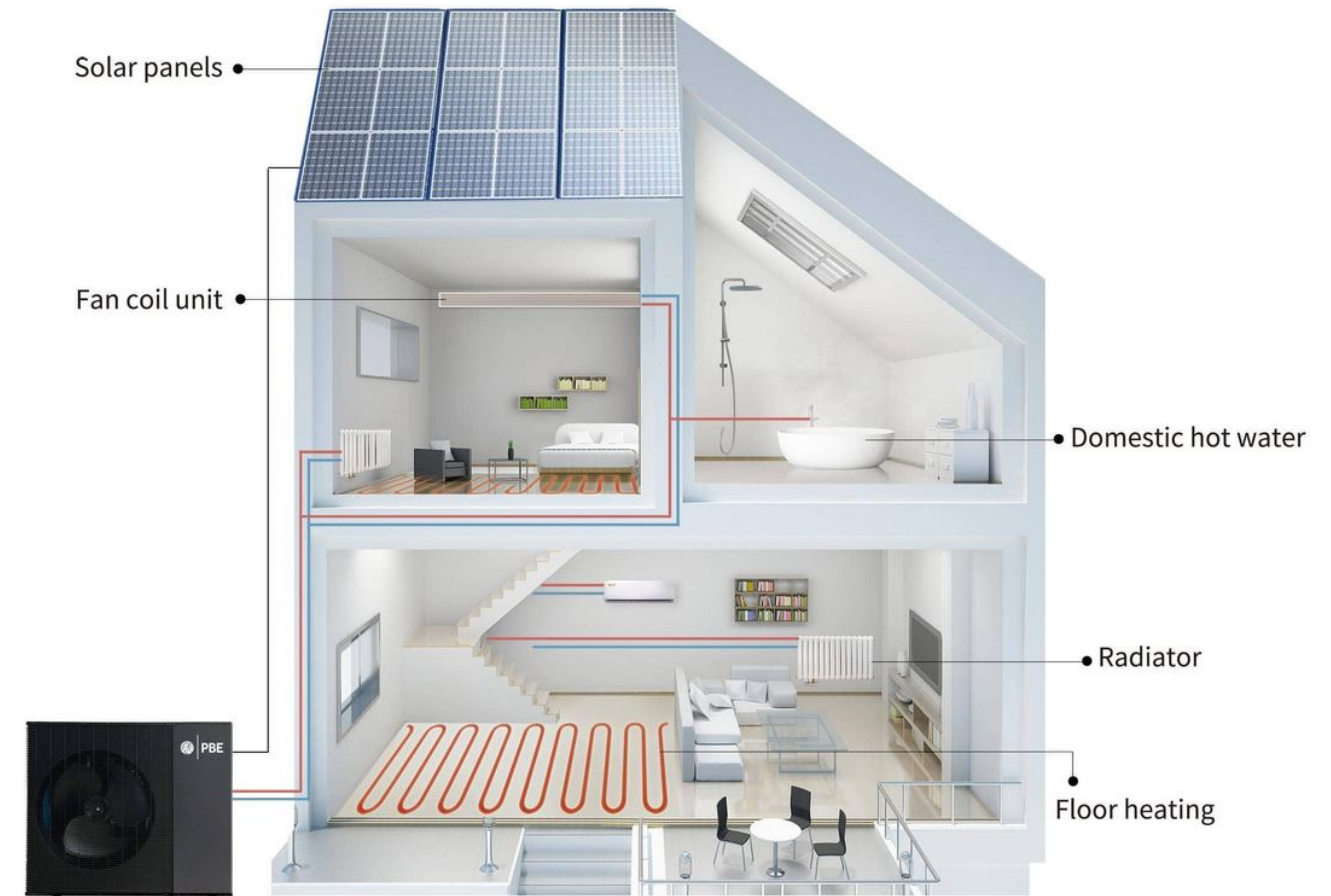
-25°C

Maximum Water Temperature 75°C.
Meets a Variety of Terminal Usage Needs

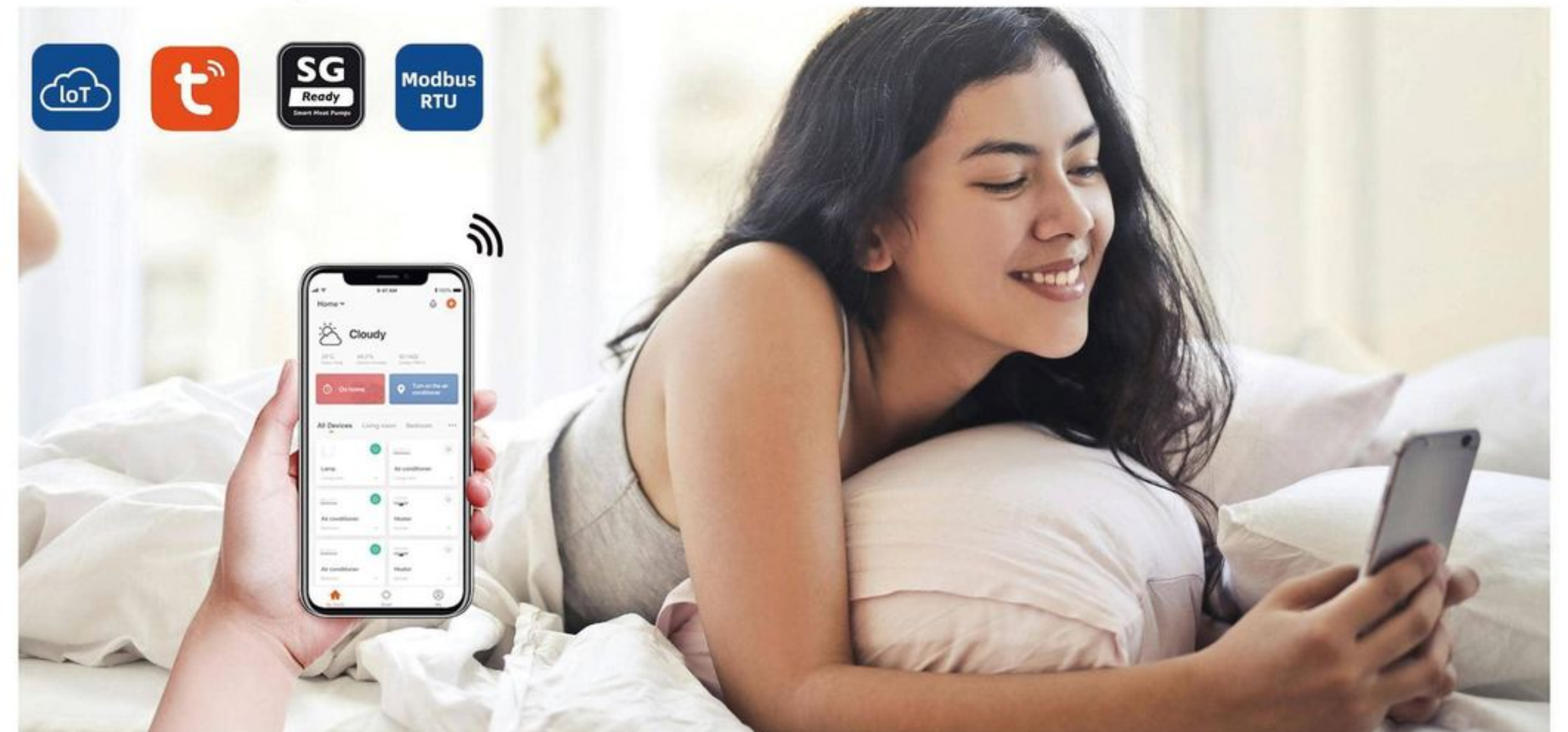


Multiple Function

Heating | Cooling | Hot Water



Smart System



Energy Saving & Comfortable

Nurturing a greener, more sustainable future

*Environmental Sustainability

*R290 has a Low GWP and zero ODP, which is a sustainable refrigerant in the industry.



R290

Noise Reduction Technology

Noise-reduction technology for serene comfort
Sound pressure lower to 35dB(A)



35dB



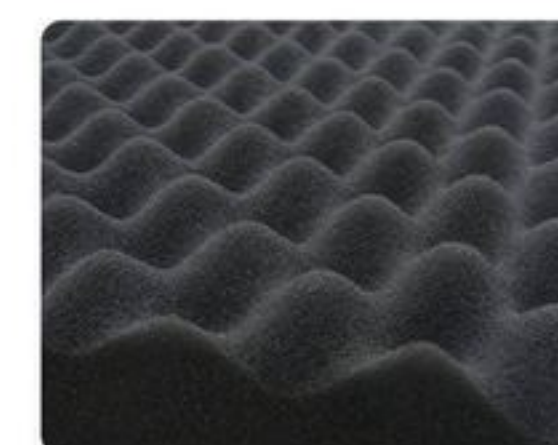
Ultra-silent axial fan design



Ultra-quiet compressor design



Soundproof Isolation



Improved design minimizes vibration
Exclusive Compressor Chassis Reduce
Compressor Vibration Transmission

The Most Intelligent Control System

The Easiest Operation

Users can set different water temp, operation modes, time setting, parameter query, smart grid, check the energy consumption curve, etc.



Built-in WIFI module, APP control

REAL-TIME MONITORING

- ☒ 8 languages
- ☒ Operating mode
- ☒ Fault reminder
- ☒ Parameters

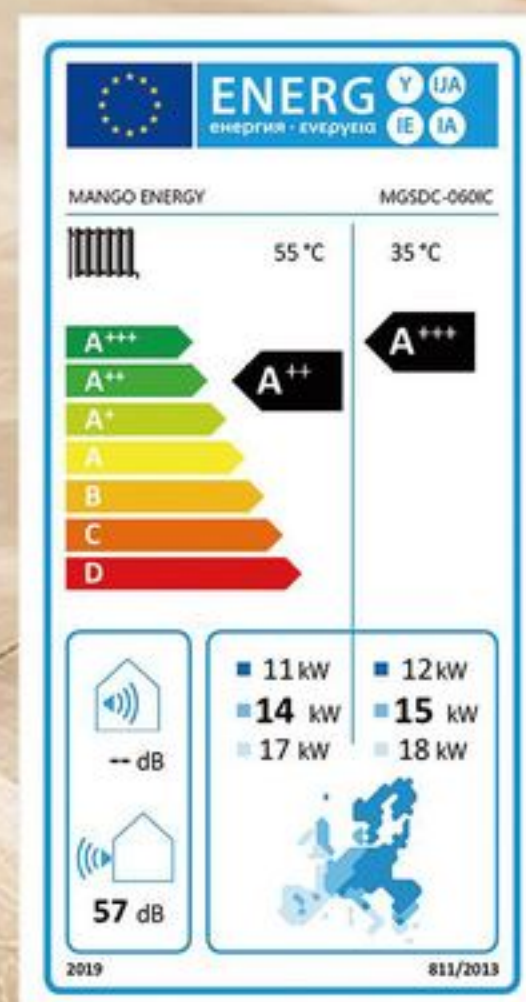
Model				MGSDC-030IIC	MGSDC-050IIC	MGSDC-060IIC	MGSDC-080IIC	MGSDC-100IIC	MGSDC-120IIC
Heat Capacity				1.8-10.8kw	4.5-16.05kw	6.2-22.3kw	10-24.8kw	11.7-33.8kw	13.4-39.3
HP				3HP	5HP	6HP	8HP	10HP	12HP
Suggestion heating area				60-90sqm	100-130sqm	140-160sqm	160-200sqm	200-250sqm	250-300sqm
Ambient	Outlet	Power Supply		220-240V / 50-60Hz / 1ph or 380-415V / 50-60Hz / 3ph			380-415V / 50-60Hz / 3ph		
+7℃	35℃	Heating Capacity	kW	10.80	16.05	22.30	24.80	33.80	39.30
		Power Input	kW	2.02	3.45	4.23	5.18	6.81	8.71
COP				5.35	4.65	5.27	4.79	4.96	4.51
+7℃	55℃	Heating Capacity	kW	9.05	14.07	18.81	20.93	31.61	36.76
		Power Input	kW	2.37	4.37	5.27	6.46	9.30	11.45
COP				3.82	3.22	3.57	3.24	3.40	3.21
-10℃	35℃	Heating Capacity	kW	7.21	12.58	12.58	18.83	26.61	30.94
		Power Input	kW	2.39	3.79	4.22	6.17	8.56	10.93
COP				3.02	3.32	2.98	3.05	3.11	2.83
-22℃	35℃	Heating Capacity	kW	5.88	9.71	12.88	14.82	17.64	20.29
		Power Input	kW	2.70	4.28	5.65	6.59	7.67	9.31
COP				2.18	2.27	2.28	2.25	2.30	2.18
+35℃	7℃	Cooling outlet	kW	7.68	13.25	16.29	20.61	23.95	29.33
		Power Input	kW	2.64	4.60	5.70	7.18	8.37	10.08
EER				2.91	2.88	2.86	2.87	2.86	2.91
Work Ambient			℃	-30℃ - 43℃					
Max Outlet Water Temperature			℃	75℃					
Control System				Punp DC inverter controler					
Compressor				Panasonic DC Inverter Compressor					
Refrigerant				R290					
Fan Motor				DC Brushless Motor					
Circulation Pump				Wilo or AWANT DC Variable Frequency Circulation Water Pump/AC water pump					
3-Way Valve				Danfoss					
Controller				Wired Touchscreen Controller with WIFI and Custom Language					
Water Heating Exchanger				Brazed Plate Heat Exchanger					
External Cabinet Material				Galvanized Steel With Powder Coating					
Electronic Expansion Valve				Dunan					
Certificates									
Rated Pressure Drop			kPa	≤40	≤50	≤60	≤65	≤65	≤65
Max Working Pressure	Refrigerant	Bar	44 Bar						
	Water	Bar	3 Bar						
Water Flow			m³/h	1.56	2.42	3.24	3.60	5.44	6.32
Water Pipe			-	DN25			DN32		DN40
Noise in 1M			dB(A)	≤52	≤56	≤57	≤59	≤60	≤61
Unit size			mm	1104*480*770	1280*530*928		1330*510*1135		
Net Weight			kg	102	139	145	188	198	219

DC Inverter Air Source Heat Pump



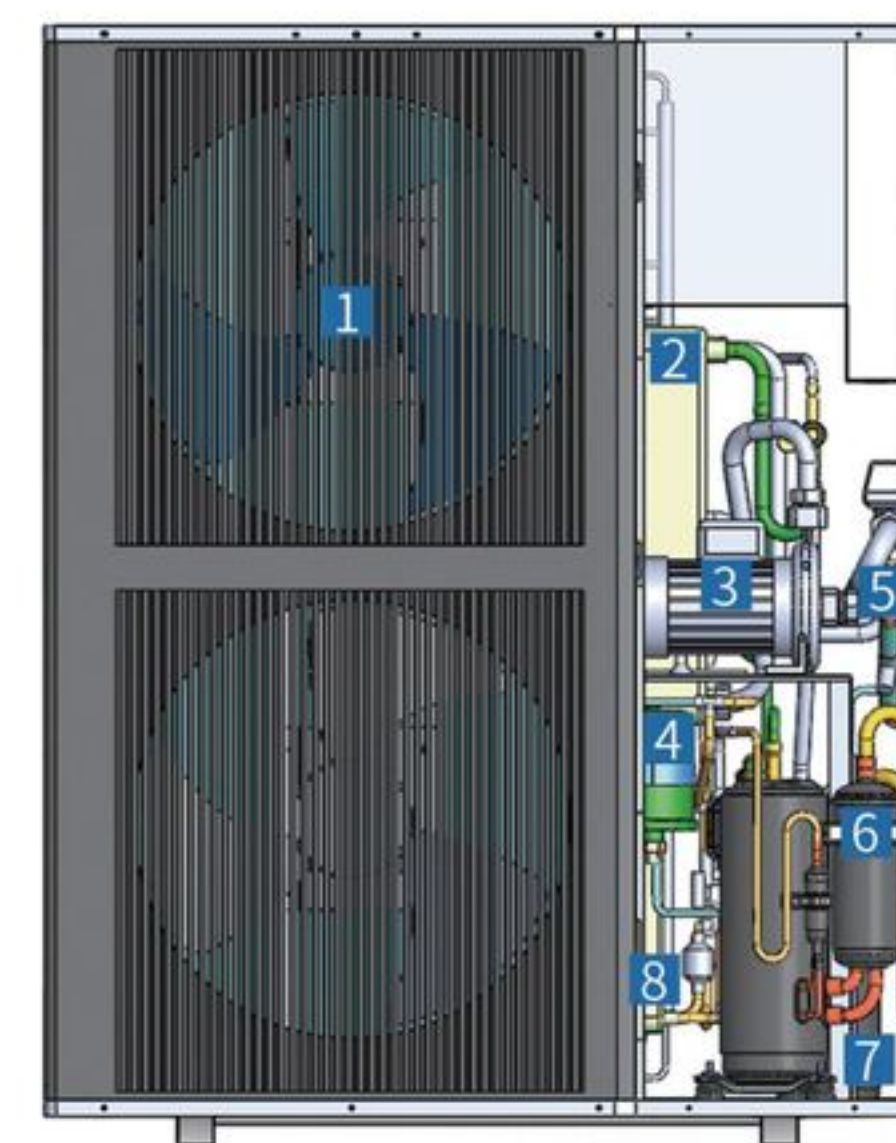
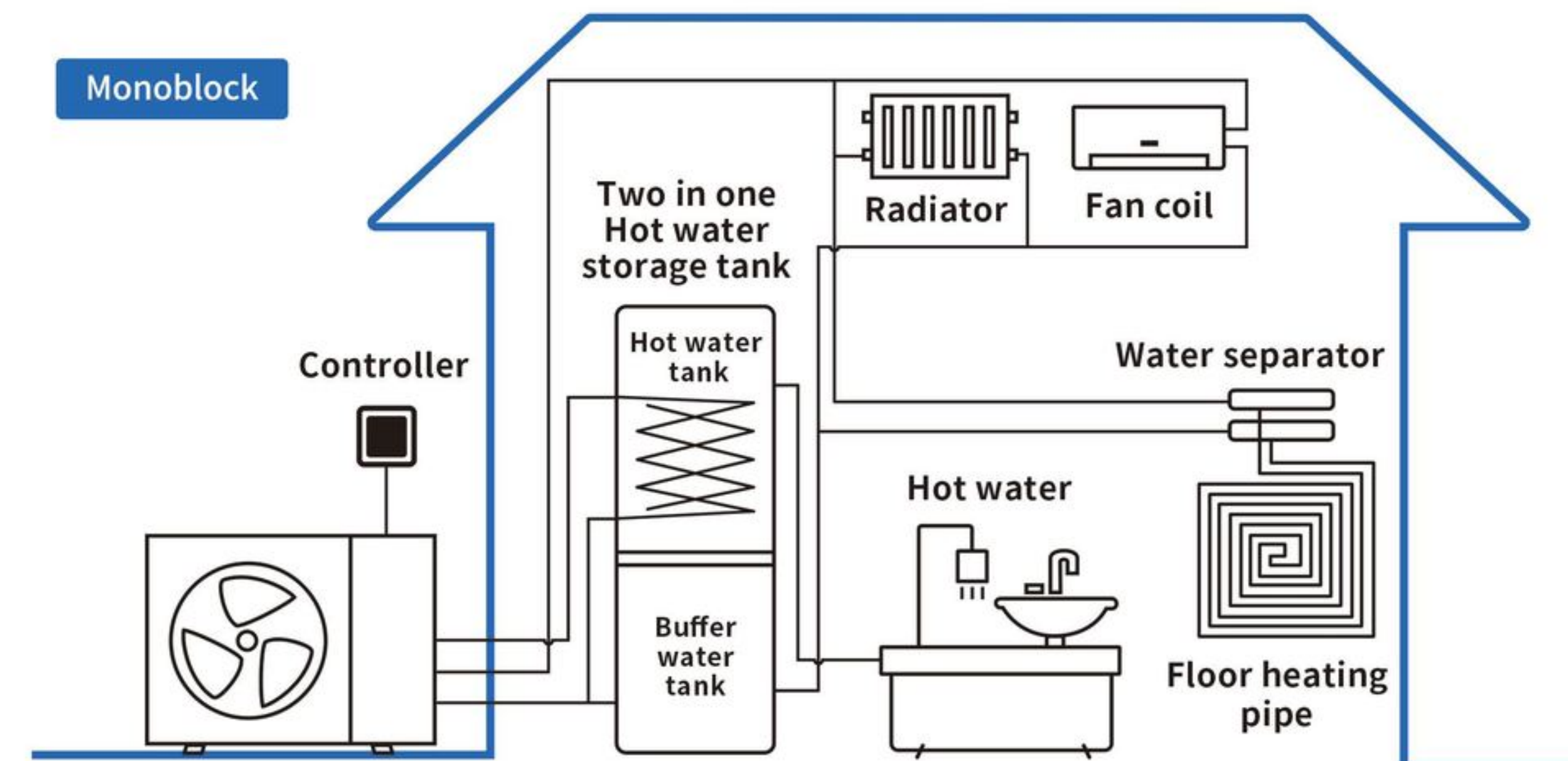
High Energy Efficiency

• A+++ ERP LABEL



Intelligent Heating System

Quick Series has an intelligent three-way control system that intelligently distributes cold and hot water according to the heat demand of the house, providing heating, cooling, and hot water functions for the house.. One machine can replace boilers, water heaters, and air conditioners at the same time.



Neat Integrated Module

Convenient for Installation and Daily Maintenance

- | | |
|------------------------|-------------------|
| 1 Fan Motor | 5 Three-Way Valve |
| 2 Plate Heat Exchanger | 6 Compressor |
| 3 Circulation Pump | 7 Separator |
| 4 Expansion Tank | 8 EEV |





All in One Heat Pump Water Heater

WiFi

70°C

43dB



Shower

Bathing

DHW

Low Noise operation

WiFi Control

Model No	MG-200L29	MG-270L29
Rated Heating Capacity(Heat pump)	2.78KW	2.78KW
Rated Input Power(Resistance)	1.8KW	1.8KW
Rated Input Current(Resistance)	7.5A	7.5A
Max Current(HP&Resistance)	14A	14A
Water tank vlume	200L	270L
Recovery Rates(lires per hour)	60	60
COP (A 20/15, W 15-55)	4.15	4.15
STC in zone 4	32	33
Refrigerant	R290 (400g)	R290 (400g)
Compressor	GMCC / Rotary	GMCC / Rotary
Expansion valve	EEV	EEV
Fan	Axial	Axial
Ventilation	Horizontal discharge	Horizontal discharge
Heat exchanger	Microchannel/ Wrap around tank	Microchannel/ Wrap around tank
Inner tank material	Enamel	Enamel
Inner tank thickness	Dome 3.0mm / Wall 2.5mm	Dome 3.0mm / Wall 2.5mm
Inner tank type	Concave	Concave
Insulation /thickness	Polyurethane / 40mm	Polyurethane / 40mm
Outer Casing	Galvanized painted sheet	Galvanized painted sheet
TPR valve	850KPA	850KPA
Rated Outlet Water Temperature	60°C	60°C
Max Outlet Water Temperature	70°C	70°C
Working range with element	-15°C-43°C	-15°C-43°C
Working range without element	-7°C-43°C	-7°C-43°C
Anti Legionella	Water heated up to 70°C	Water heated up to 70°C
IP Class	IPX4	IPX4
Electric Shock Proof	I	I
Unpacked Dimension (outdoor unit)	φ620mm*1520mm	φ620mm*1840mm
Packed Dimension (outdoor unit)	700*700*1565mm	700*700*1885mm
Net Weight	104	118
Gross Weight	120	136
Noise	43dBA	43dBA

	Standard Controller LCD screen	standard
	Controller Optional: 4 inch colorful & touched controller with special language	optional
	Controller Optional: 5 inch colorful & touched controller with special language	optional



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R290 Commercial DC Inverter Heat Pump



Heating



Cooling



A+++

ERP LABEL



Model		MG-200LNDC	MG-250LNDC	MG-300LNDC	MG-500LNDC	MG-600LNDC	MG-900LNDC
Heating capacity (A7/W35)	kW	50.0	75.0	100.0	150.0	200.0	300.0
Input power	kW	11.4	19.0	22.8	38.0	45.6	68.4
Current	A	25.0	41.8	50.2	83.6	100.3	150.5
COP	-	4.4	4.5	4.4	4.5	4.4	4.4
Heating capacity (A7/W45)	kW	50.0	75.0	100.0	150.0	200.0	300.0
Input power	kW	13.4	21.0	27.0	42.0	54.1	81.0
Current	A	29.6	46.2	59.5	92.4	118.9	178.2
COP	-	3.7	3.8	3.7	3.8	3.7	3.7
Heating capacity (A7/W55)	kW	50.0	75.0	100.0	150.0	200.0	300.0
Input power	kW	15.5	23.0	31.3	46.0	62.5	93.9
Current	A	34.2	50.6	68.8	101.2	137.5	206.6
COP	-	3.2	3.3	3.2	3.3	3.2	3.2
Heating capacity (A-5/W65)	kW	39.0	60.0	79.0	120.0	158.0	237.0
Input power	kW	18.1	28.7	38.0	57.4	76.0	114.0
Current	A	39.8	63.1	83.6	126.3	167.2	250.8
COP	-	2.15	2.09	2.16	2.09	2.16	2.10
Cooling capacity (A35/W18)	kW	45.0	70.0	85.0	140.0	170.0	255.0
Input power	kW	10.2	16.5	19.3	33.0	38.6	57.9
Current	A	22.5	36.3	42.5	72.6	85.0	127.4
EER	-	4.4	4.5	4.4	4.5	4.4	4.4
Cooling capacity (A35/W7)	kW	42.0	69.0	82.0	138.0	164.0	246.0
Input power	kW	14.0	22.0	27.3	44.0	54.7	81.9
Current	A	30.8	48.4	60.1	96.8	120.3	180.2
EER	-	3.0	3.1	3.0	3.1	3.0	3.0
SCOP Class	LWT at 35°C	A+++					
	LWT at 55°C	A+++					
SCOP	LWT at 35°C	4.62	4.61	4.58	4.61	4.58	4.58
	LWT at 55°C	3.93	3.91	3.92	3.91	3.92	3.92
SEER	LWT at 7°C	4.78	4.75	4.76	4.75	4.76	4.76
	LWT at 18°C	6.78	6.75	6.73	6.75	6.73	6.73
Voltage	V/ph/Hz	380-415/3/50					
Rated/Max water temp		75°C					
Water flow	m3/H	7.9	13.1	15.5	26.1	31.0	46.5
Water pressure drop	kPa	≤86	≤87	≤87	≤87	≤87	≤87
Refrigeration	type	R290					
	GWP value	3					
Compressor(Copeland Scroll)		Hitachi DC inverter					
Outdoor fan	Motor type	Brushless DCmotor					
	Number of fans	1	2	2	4	4	6
Ingress Protection Rating		IPX4					
Condenser (Tank HE)		Plate type heat exchanger/Alfa Laval					
Evaporator		High-efficiency hydrophilic aluminum foil heat exchanger					
4-way valve		SANHUA					
Throttle unit		FUJIKOKI					
Controller		Pump					
Operating temperature	Cooling	-5°C -- 43°C					
	Heating	-35°C -- 35°C	-35°C -- 35°C	-35°C -- 35°C	-35°C -- 35°C	-35°C -- 35°C	-35°C -- 35°C
	DHW	-35°C -- 43°C	-35°C -- 43°C	-35°C -- 43°C	-35°C -- 43°C	-35°C -- 43°C	-35°C -- 43°C
Water pipe size		G1.5"	G2.5"	G2.5"	G3"	G3"	G7.5"
Noise	dB	≤65	≤68	≤68	≤70	≤72	≤90

Heating conditions: Air temperature (DB/WB): 7°C/6°C;A-5°C/-4°C, water temperature (inlet/outlet):30°C/35°C/40°C/45°C/50°C/55°C.;W65°C

Cooling conditions: Air temperature (DB/WB): 35°C/24°C, water temperature (inlet/outlet):23°C/18°C/12°C/7°C.

Notice:The above data is for reference only. The specs data is subject to actual product



PBE

R290 Air To Air Heat Pump



Product Model			NLFR-40NW-BPAYN2	NLFR-30NW-BPAYN2
working power supply			220V~50Hz	220V~50Hz
Nominal operating conditions-12℃	Heating capacity	W	4000	3000
	Total power consumption for heating	W	1740	1300
	COP	W/W	2.30	2.30
Low temperature operating conditions-20℃	Heating capacity	W	4000	3000
	Total power consumption for heating	W	2000	1500
	COP	W/W	2.00	2.00
High temperature working conditions7℃	Heating capacity	W	4000	3000
	Total power consumption for heating	W	1065	800
	COP	W/W	3.75	3.75
HSPF		W/W	3.30	3.30
Energy efficiency rating		/	Level 2	Level 2
Cooling capacity		W	3600 (1000~4900)	2800 (800~3900)
Cooling power		W	1350 (400~1920)	1000 (300~1560)
Outdoor unit noise		dB(A)	53	53
refrigerant		/	R290	R290
Outdoor unit dimensions (length)×Width×high)		mm	745(805)×280(345)×550	745(805)×280(345)×550
Outdoor unit quality		kg	27	25
Operating ambient temperature (cooling)		℃	18-50	18-50
Operating ambient temperature (heating)		℃	-30~27	-30~27
Adjustable temperature		℃	16~31	16~31
Circulating air volume		m³/h	650	650
Indoor unit noise		dB(A)	42	42
Indoor unit dimensions (length)×Width×high)		mm	700×215×600	700×215×600
Indoor unit quality		kg	14	14
Control method		/	Remote control + touch	Remote control + touch
compressor	type		Jet enthalpy	Jet enthalpy
	brand		GMCC	GMCC
	model		EAPN150D33	EAQN108
outdoor motor	brand		Welling/Lvzhi/Lifeng	Welling/Lvzhi/Lifeng
	model		ZKFN-34-8-18L/ZWR34-8E(L)/RD(AL)N34HA	ZKFN-34-8-18L/ZWR34-8E(L)/RD(AL)N34HA
	power		34W	34W
Outdoor wind blades	brand		SHUNWEI/Longdy	SHUNWEI/Longdy
	Specification		φ429×119×φ8	φ429×119×φ8
Indoor motor	brand		Welling/Lvzhi/Lifeng	Welling/Lvzhi/Lifeng
	model		ZWR30-8G(L)/ZKFP-30-8-333L/RD(AL)30HD10	ZWR30-8G(L)/ZKFP-30-8-333L/RD(AL)30HD10
	power		30W	30W
Indoor fan wheel	brand		Longdy	Longdy
	Specification		φ370×80	φ370×80
Indoor electrical control board	brand		CVTE	CVTE
	model		S.KFN50M.3	S.KFN50M.3
Outdoor electrical control board	brand		CVTE	CVTE
	model		S.KFW35C.5	S.KFW35C.5
Indoor display panel	brand		CVTE	CVTE
	model		S.DSP.KFN50R.1	S.DSP.KFN50R.1
Four-way valve	brand		DunAn/SANHUA/Gangli	DunAn/SANHUA/Gangli
	model		DSH-4/STF-4	DSH-4/STF-4
Electronic expansion valve	brand		DunAn/SANHUA	DunAn/SANHUA
	model		LPF-1.65,DPF-1.65	LPF-1.3,DPF-1.3
Condenser	Specification		1.5Row/20U*Φ7-1.4Piece spacing	single row/10U*Φ7-1.2Piece spacing
Evaporator	Specification		2Row/20U*Φ5-1.3Piece spacing	2Row/20U*Φ5-1.3Piece spacing



Water Tank
Buffer Tank & Hot Water

Buffer Tank & Hot Water

Model		MGTK100	MGTK150	MGTK200	MGTK300	MGTK400	MGTK500
Volume	L	100L	150L	200L	300L	400L	500L
Outer Case		0.8mm Coated Galvanized Steel					
Insulation		50mm PU Foam					
Inner Tank		SUS304 1.5mm	SUS304 1.5mm	SUS304 1.5mm	SUS304 1.5mm	SUS304 1.5mm	SUS304 1.5mm
Max Pressure	Bar	6	6	6	6	6	6
Warranty		24 Months					
Product Dimension	mm	Φ470*1090	Φ470*1530	Φ520*1540	Φ560*1750	Φ700*1620	Φ700*1870
Packing Dimension	mm	550*550*1120	550*550*1560	600*600*1570	635*635*1790	790*790*1670	790*790*1920
Net / Gross	KG	23.5 / 28	33 / 37	42 / 46	61 / 66	68 / 76	78 / 86
Outer and Inner Material Can Be Upgraded to SUS316							
SUS304 Exchanger Coil	Size	22m * Φ1.0		25m * Φ1.0			
SUS316 Exchanger Coil	Size	22m * Φ1.0		25m * Φ1.0			
304 Pylphon Bellow	Size	20m * Φ25	25m * Φ25	30m * Φ25	35m * Φ25		

Buffer Tank & Hot Water

Item no	Water Tank	Volume	Coils	Outter	Inner Tank Material	Dimensions (mm)	Packing Size(mm)	Weight Net/Gross	Packaging
150L	Buffer Tank	50L	20M*Ø25coils	White SS304	SUS304/2B δ=1.5mm	520*520*1500	595*595*1600	78 / 80kg	Carton
	Hot Water	100L							
200L	Buffer Tank	100L	25M*Ø25 coils	White SS304	SUS304/2B δ=1.5mm	520*520*1552	595*595*1650	86 / 88kg	Carton
	Hot Water	100L							
300L	Buffer Tank	100L	30M*Ø22 coils	White SS304	SUS304/2B δ=1.5mm	560*560*1825	735*735*1930	94 / 96kg	Carton
	Hot Water	200L							
400L	Buffer Tank	200L	30M*Ø22 coils	White SS304	SUS304/2B δ=1.5mm	630*630*1850	795*795*1950	104 / 108kg	Carton
	Hot Water	200L							
500L	Buffer Tank	300L	30M*Ø22 coils	White SS304	SUS304/2B δ=1.5mm	700*700*1870	850*850*1980	113 / 116kg	Carton
	Hot Water	200L							
500L	Buffer Tank	200L	35M*Ø22 coils	White SS304	SUS304/2B δ=2.0mm	700*700*1870	850*850*1980	113 / 116kg	Carton
	Hot Water	300L							



Ultra slim design

ultra-thin horizontal concealed fan coil



Model	FP-51	FP-68	FP-85	FP-102	FP-136	FP-170
Air volume (m³/H)	510	680	850	1020	1360	1700
Cooling capacity (KW/H)	2.9	3.8	4.8	5.6	6.5	8.1
Heating capacity (KW/H)	4.5	5.6	7	8.6	11	13.6
Motor power (W)	30	30	30	30	30+30	30+30
Motor speed range	300-1300r/min					
Number of wind wheels	2	2	2	2	4	4
Surface cooler specifications	3 rows of 24 copper tubes	3 rows of 30 copper pipes	3 rows of 24 copper tubes	3 rows of 30 copper pipes	3 rows of 24 copper tubes	3 rows of 30 copper pipes
Surface cooler size (mm)	650*40*210	650*40*210	900*40*210	900*40*210	1130*40*210	1130*40*210
Condensate outlet diameter	DN20					
Air outlet size (mm)	650*110	650*110	900*110	900*110	1330*110	1330*110
Rear air inlet size (mm)	790*150	790*150	1040*150	1040*150	1270*150	1270*150
Lower air inlet size (mm)	790*150	790*150	1040*150	1040*150	1270*150	1270*150
Hanging hole distance (mm)	973*335	973*335	1123*335	1123*335	1553*335	1553*335
Inlet and outlet size (mm)	Inner threads: DN20					
Maximum working pressure (MPa)	1.6	1.6	1.6	1.6	1.6	1.6
Outlet static pressure (PA)	12	12	12	12	12	12
Noise (dB)	35.8	36.7	38.8	39.6	41.3	42.5
Unit size (mm)	913*495*190	913*495*190	1163*495*190	1163*495*190	1593*495*190	1593*495*190
Packing size (mm)	960*530*250		1200*530*250		1640*530*250	
Unit weight (kg)	13.8	15	16.5	19	25	27
Applicable area (M2)	15m²	20m²	25m²	30m²	40m²	50m²
Remarks	The difference between basic models and high-end models					
	basic models			high-end models		
Motor	Leibao AC motor			DC brushless 0-10V Yongan motor		
Drain pump	Unable to install condensate lift pump			It can be equipped with a built-in condensate lifting pump (need to purchase it from us).		



Indoor Unit

Wall Mounted Fan Coil



Model	Power Input	Cooling Capacity	Heating Capacity	Air Flow	Water Flow	Noise
2P	18W	2-4kW	4-6kW	620m³/H	0.75m³/H	18-33dba
3P	45W	5.5kW	7.5kW	1100m³/H	0.94m³/H	20-38dba
Model	Motor	AL Fins	Copper Tube	Shell Material	Fan	Control
2P	Welling DC Motor	Hydrophilic 22FPI 0.105mm Thick	7*0.26mm 28tubes	HIPS Material No color change	95mm cross fan ABS+AS+GF	1.Sense and show room and water temp. 2.Fault self-test 3.High temp protect
3P		Hydrophilic 18FPI 0.105mm Thick	7*0.32mm 36tubes		108mm cross fan ABS+AS+GF	
Model	Coil Size	Net Size		Packing Size		Gross Weight
2P	C Type 675mm	850*265*210mm		910*335*280mm		10KG
3P	C Type 855mm	1100*330*250mm		1180*400*320mm		15KG