

Solar Heat Pump

Turn sunlight into Heating , environmental protection & energy saving



DC Inverter



WIFI control



Hybrid Solar



A+++



Precise
Temperature



Low Noise
Operation

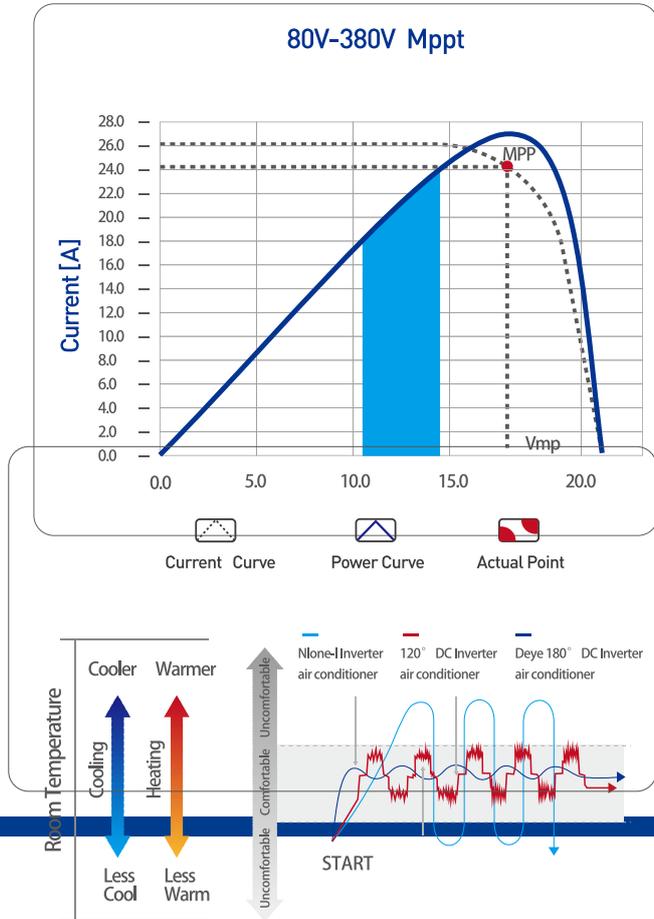


Build in Solar MPPT

- Intelligent control for detection and adjustment
- Efficiency:99.9%
- DC to DC 0 convert lose
- 10+ years life design

SVPWM technology

- 180° sine wave controller technology
- Compressor ran below 0.1Hz
- Operate during 50% voltage drop

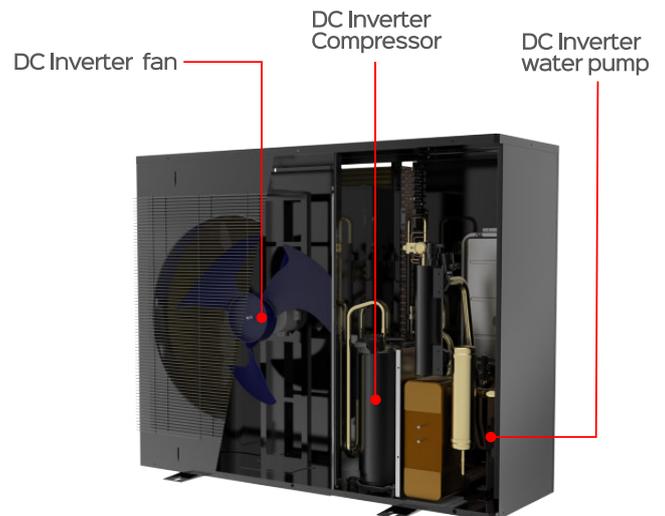


Natural refrigerant R290



Nature refrigerant

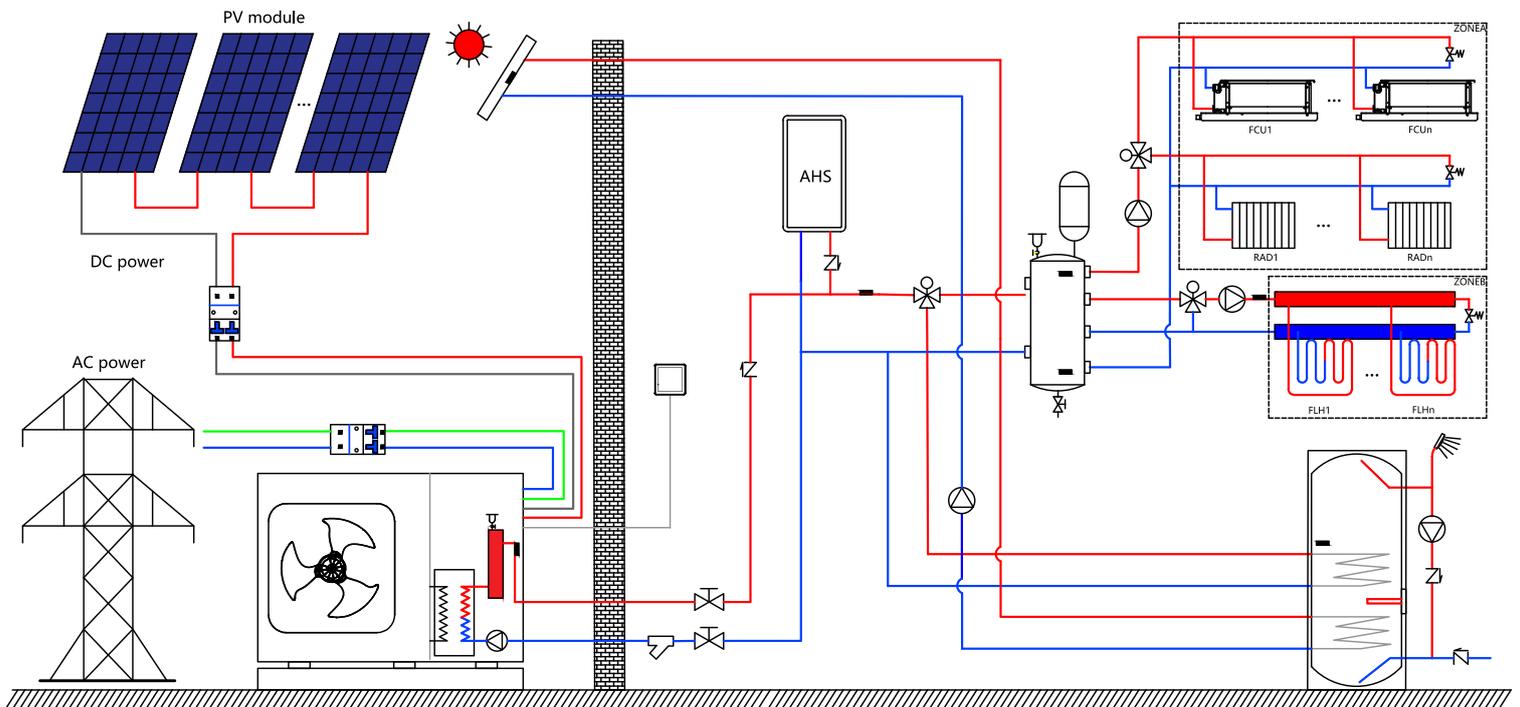
Parallel connection of multiple machines



Specifications

Model		JBL-HPA-8K-HYB-R290	JBL-HPA-10K-HYB-R290	JBL-HPA-12K-HYB-R290	JBL-HPA-18K-HYB-R290	JBL-HPA-24K-HYB-R290
Power supply AC	Power AC	AC 220-240/1/50				
Power supply DC PV String Input Data	Voc	DC150-410V			DC200-410V	
	Max. PV(DC) Input	13+13			(13+13)+13	
	Max. PV ISC(A)	22+22			(22+22)+22	
	No.of MPPT Track	1			2	
Cooling (A35W18)	Capacity	8.3	10.0	12.0	14.0	16.0
	EER	5.23	4.83	4.58	4.28	3.98
Cooling (A35W7)	Capacity	7.5	8.9	11.5	12.7	14.0
	EER	3.55	3.35	3.15	3.00	2.85
Heating (A7W35)	Capacity	8.4	10.0	12.0	14.0	15.0
	COP	5.1	4.8	4.9	4.6	4.5
Heating (A7W45)	Capacity	8.2	10.0	12.0	14.0	15.0
	COP	3.94	3.74	3.79	3.59	3.44
Heating (A7W55)	Capacity	7.8	9.5	12.0	14.0	15.0
	COP	3.29	3.14	3.19	3.09	2.94
Seasonal space heating energy efficiency class	LWT at 3	A+ ++	A+++	A+++	A+++	A+++
	LWT at 5	A++	A++	A++	A++	A++
ErP sound power level	Monobloc Unit	56	56	57	57	58
Net dimension	Wx DxH	1283x455x1036			1283x455x1036	
Packing dimension	WxDxH	1360x545x1222			130x545x1222	
Net weight	Monobloc Unit	145			160	
Gross weight	Monobloc Unit	159			174	
Refrigerant	Type/GWP	R290/3				
Operating ambient temp. range	Cooling	-5~48				
	Heating	-25~35				
	DHW(tank)	-25~43				
Setting water temp. range	Cooling	10 ~ 30 (LWT 5 ~ 25)				
	Heating	25 ~ 80				
	DHW(tank)	25 ~ 75				
Water circuit	Piping connections	G1-1/4"				
	Safety valve set pressure	0.3				
	Flow switch	0.6				
	Expansion tank Volume	5				
	Capacity of the back-up heater	3				
Stuffing quantity	40H/40/20	68/33/16				

Installation Diagram



Solar Heat Pump

- **Efficient** - R290 A+++ Energy Label
- **Smart** - WIFI Monitoring & Intelligent Protections
- **Quiet** - Compressor Dual Shock Absorption
- **Secure** - Explosion-proof
- **Parallel** - connection of multiple machines

R290

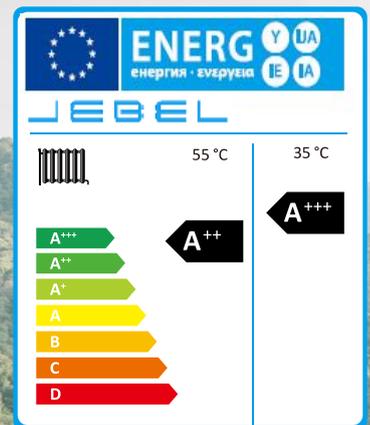
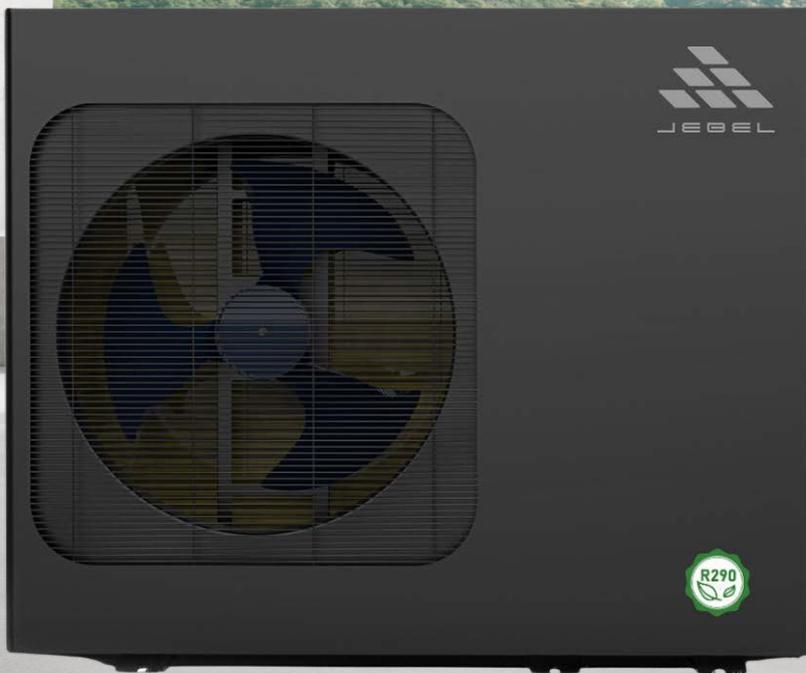


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JEBEL