

Heat Pump MonoBlock R290 (Hybrid - No Solar)

MAIN FEATURES

- DC Inverter
- WIFI control
- Hybrid solar
- A+++
- Precise Temperature
- Low Noise Operation





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

R290



Low Noise
Operation



Precise
Temperature



A+++
Energy
Efficiency



Tropical Applicable

Model	Power AC	V/Ph/H	8kW	10kW
			JBL-HP-8K-HYB-R290P1-1	JBL-HP-10K-HYB-R290P1-1
Power Supply AC	Capacity	kW	8.3	10
Cooling (A35W18)	Rated Input	kW	1.61	2.11
	EER		5.15	4.75
Cooling (A35W7)	Capacity	kW	7.5	8.9
	Rated Input	kW	2.17	2.74
	EER		3.45	3.25
Heating (A7W35)	Capacity	kW	8.4	10
	Rated Input	kW	1.68	2.13
	COP		5	4.7
Heating (A7W45)	Capacity	kW	8.2	10
	Rated Input	kW	2.13	2.74
	COP		3.85	3.65
Heating (A7W55)	Capacity	kW	7.8	9.5
	Rated Input	kW	2.44	3.11
	COP		3.2	3.05
Seasonal space heating energy efficiency class1	LWT at 35 °C		A+++	A+++
	LWT at 55 °C		A+++	A+++
SCOP	LWT at 35 °C			5.35
	LWT at 55 °C			4.17

ErP Sound power level2	Monobloc unit	dB	56	57
Max Power Input3		kW	2.9	3.4
Max current3 (AC)		A		17.5
Refrigerant	Type/GWP		R290/3	R290/3
	Charged Volume	Kg	1.1	1.1
Compressor	Type		Rotary	Rotary
	Brand		HIGHLY	HIGHLY
Water pump	Type		DC high-efficiency shielded pump	
	Brand		SHIMGE/Shinhoo	
	Max. pump head	m	9	
Outdoor Fan	Motor type		DC brushless motor	
	Fan Direction		Horizontal	
	Output Power	W	100	
Water side heat exchanger	Type		Brazed plate	
Air side heat exchanger	Type		Finned tube	
Throttle type			Electronic expansion valve	

Water circuit	Piping connections	inch	G1-1/4"	G1-1/4"
	Safety valve set pressure	MPa	0.3	0.3
	Flow switch	m³/h	0.36	0.36
	Expansion tank Volume	L	5	5
Operating ambient temp. range	Capacity of the back-up heater	kW	3	3
	Cooling	°C	- 5 ~ 48	- 5 ~ 48
	Heating	°C	- 25 ~ 35	- 25 ~ 35
Setting water temp. range	DHW(tank)	°C	- 25 ~ 43	- 25 ~ 43
	Cooling	°C	10 ~ 30 (LWT 5 ~ 25)	10 ~ 30 (LWT 5 ~ 25)
	Heating	°C	25 ~ 80	25 ~ 80
Net dimension	DHW(tank)	°C	25 ~ 75	25 ~ 75
	WxDxH	mm	1283x455x1036	1283x455x1036
	Packing dimension	mm	1360x545x1222	1360x545x1222
Net weight	Monobloc unit	kg	150	150
Gross weight	Monobloc unit	kg	174	174

Model	Power AC	V/Ph/H	12kW	16kW
			JBL-HP-12K-HYB-R290P1-1	JBL-HP-16K-HYB-R290P1-1
Power Supply AC	Capacity	kW	12	16
Cooling (A35W18)	Rated Input	kW	2.67	4.1
	EER		4.5	3.9
Cooling (A35W7)	Capacity	kW	11.5	14
	Rated Input	kW	3.77	5.09
	EER		3.05	2.75
Heating (A7W35)	Capacity	kW	12	15
	Rated Input	kW	2.5	3.41
	COP		4.8	4.4
Heating (A7W45)	Capacity	kW	12	15
	Rated Input	kW	3.24	4.48
	COP		3.7	3.35
Heating (A7W55)	Capacity	kW	12	15
	Rated Input	kW	3.87	5.26
	COP		3.1	2.85
Seasonal space heating energy efficiency class1	LWT at 35 °C		A+++	A+++
	LWT at 55 °C		A++	A++
SCOP	LWT at 35 °C		4.99	4.83
	LWT at 55 °C		3.91	3.76



Tropical Applicable

ErP Sound power level2	Monobloc unit	dB	57	58
Max Power Input3		kW	4.8	5.9
Max current3 (AC)		A	24.5	29
Refrigerant	Type/GWP		R290/3	R290/3
	Charged Volume	Kg	1.43	1.43
Compressor	Type		Rotary	
	Brand		PANASONIC	
Water pump	Type		DC high-efficiency shielded pump	
	Brand		SHIMGE/Shinhoo	
	Max. pump head	m	9	
Outdoor Fan	Motor type		DC brushless motor	
	Fan Direction		Horizontal	
	Output Power	W	200	
Water side heat exchanger	Type		Brazed plate	
Air side heat exchanger	Type		Finned tube	
Throttle type			Electronic expansion valve	

Water circuit	Piping connections	inch	G1-1/4"	G1-1/4"
	Safety valve set pressure	MPa	0.3	0.3
	Flow switch	m³/h	0.6	0.6
	Expansion tank Volume	L	5	5
	Capacity of the back-up heater	kW	3	3
Operating ambient temp. range	Cooling	°C	- 5 ~ 48	- 5 ~ 48
	Heating	°C	- 25 ~ 35	- 25 ~ 35
	DHW(tank)	°C	- 25 ~ 43	- 25 ~ 43
Setting water temp. range	Cooling	°C	10 ~ 30 (LWT 5 ~ 25)	10 ~ 30 (LWT 5 ~ 25)
	Heating	°C	25 ~ 80	25 ~ 80
	DHW(tank)	°C	25 ~ 75	25 ~ 75
Net dimension	WxDxH	mm	1283x455x1036	1283x455x1036
Packing dimension	WxDxH	mm	1360x545x1222	1360x545x1222
Net weight	Monobloc unit	kg	167	167
Gross weight	Monobloc unit	kg	191	191

Model	12kW		16kW	
	JBL-HP2-12K-HYB-R290P1-1	AC380-415V/3Ph/50/60Hz	JBL-HP2-16K-HYB-R290P1-1	AC380-415V/3Ph/50/60Hz
Power Supply AC	Capacity	kW	12	16
	Rated Input	kW	2.67	4.1
	EER		4.5	3.9
Cooling (A35W18)	Capacity	kW	11.5	14
	Rated Input	kW	3.77	5.09
	EER		3.05	2.75
Cooling (A35W7)	Capacity	kW	12	15
	Rated Input	kW	2.5	3.41
	EER		4.8	4.4
Heating (A7W35)	Capacity	kW	12	15
	Rated Input	kW	3.24	4.48
	COP		3.7	3.35
Heating (A7W45)	Capacity	kW	12	15
	Rated Input	kW	3.87	5.26
	COP		3.1	2.85
Heating (A7W55)	Capacity	kW	12	15
	Rated Input	kW	3.87	5.26
	COP		3.1	2.85
Seasonal space heating energy efficiency class1	LWT at 35 °C		A+++	A+++
	LWT at 55 °C		A++	A++
SCOP	LWT at 35 °C		4.99	4.83
	LWT at 55 °C		3.91	3.76

ErP Sound power level2	Monobloc unit	dB	57	58
Max Power Input3		kW	4.8	5.9
Max current3 (AC)		A	9.5	11.5
Refrigerant	Type/GWP		R290/3	
	Charged Volume	Kg	1.43	1.43
Compressor	Type		Rotary	
	Brand		PANASONIC	
Water pump	Type		DC high-efficiency shielded pump	
	Brand		SHIMGE/Shinhoo	
	Max. pump head	m	9	
Outdoor Fan	Motor type		DC brushless motor	
	Fan Direction		Horizontal	
	Output Power	W	250	
Water side heat exchanger	Type		Brazed plate	
Air side heat exchanger	Type		Finned tube	
Throttle type			Electronic expansion valve	

Water circuit	Piping connections	inch	G1-1/4"	G1-1/4"
	Safety valve set pressure	MPa	0.3	0.3
	Flow switch	m³/h	0.6	0.6
	Expansion tank Volume	L	5	5
	Capacity of the back-up heater	kW	9	9
Operating ambient temp. range	Cooling	°C	- 5 ~ 48	- 5 ~ 48
	Heating	°C	- 25 ~ 35	- 25 ~ 35
	DHW(tank)	°C	- 25 ~ 43	- 25 ~ 43
Setting water temp. range	Cooling	°C	10 ~ 30 (LWT 5 ~ 25)	10 ~ 30 (LWT 5 ~ 25)
	Heating	°C	25 ~ 80	25 ~ 80
	DHW(tank)	°C	25 ~ 75	25 ~ 75
Net dimension	WxDxH	mm	1283x455x1036	1283x455x1036
Packing dimension	WxDxH	mm	1360x545x1222	1360x545x1222
Net weight	Monobloc unit	kg	175	175
Gross weight	Monobloc unit	kg	191	191