



# BAUF Heat Pump Series S R32



BAUF

# Heat Pump Series S R32

The BAUF heat pump serves as a versatile source for various heating systems: radiators, underfloor heating and DHW tanks. Additionally, a fan coil unit can be connected to provide both heating and cooling for the space.

- Available in capacities of **6, 10, 14, 18, 24 kW**.
- The Panasonic EVI compressor provides efficient operation **down to -25 degrees**.
- Great design combined with **low noise**.
- An additional **9 kW** electric heater is built into the indoor unit, which will work if the heat pump's power is insufficient.
- The **WiFi module** provides direct access for control, and its own application facilitates remote service.



# Specifications

Model	S Series 6 R32 Split	S Series 10 R32 Split	S Series 14 R32 Split	S Series 18/1 R32 Split	S Series 18/3 R32 Split	S Series 24 R32 Split
<b>Ambient temperature 7°C/6°C, relative humidity 80%, water inlet 30°C, water outlet 35°C</b>						
<b>Power (kW)</b>	2.50~8.30	4.20~12.20	5.30~16.50	6.20~20.50	6.20~20.50	6.50~26.10
<b>Input power (kW)</b>	0.57~1.92	0.86~2.88	1.15~4.15	1.36~5.28	1.36~5.28	1.78~6.45
<b>COP</b>	4.32~5.86	4.23~5.39	3.97~5.43	3.88~5.21	3.88~5.21	4.04~5.43
<b>Ambient temperature 7°C/6°C, relative humidity 70%, water inlet 47°C, water outlet 55°C</b>						
<b>Power (kW)</b>	2.30~7.62	3.85~11.20	4.90~15.10	6.30~19.90	6.30~19.90	6.90~26.10
<b>Input power (kW)</b>	0.75~2.61	1.13~3.75	1.65~5.25	1.65~6.82	1.65~6.82	1.95~8.55
<b>COP</b>	2.92~3.33	2.99~3.46	2.87~3.38	2.91~3.34	2.91~3.34	3.05~3.42
<b>Ambient temperature 35°C/24°C, water inlet 12°C, water outlet 7°C</b>						
<b>Power (kW)</b>	1.80~7.10	2.60~10.30	4.50~13.50	5.50~17.50	5.50~17.50	5.20~21.30
<b>Input power (kW)</b>	0.61~2.43	0.86~3.65	1.45~4.85	1.65~6.25	1.65~6.25	1.95~8.20
<b>EER</b>	2.92~2.96	2.82~3.05	2.70~3.11	2.80~3.33	2.80~3.33	2.60~2.67

# Specifications

Model	S Series 6 R32 Split	S Series 10 R32 Split	S Series 14 R32 Split	S Series 18/1 R32 Split	S Series 18/3 R32 Split	S Series 24 R32 Split
<b>Power Supply</b>	220~240V / 1N/ 50 Hz			380~415V / 3N/ 50 Hz		
<b>Power (kW)</b>	6.0	6.7	8	9.2	9.2	17
<b>Current (A)</b>	26.3	29.5	34.8	40	14.5	25.8
<b>Wire sizq</b>	2.5mm <sup>2</sup> *2+1.5mm <sup>2</sup>	2.5mm <sup>2</sup> *2+1.5mm <sup>2</sup>	25mm <sup>2</sup> *2+1.5mm <sup>2</sup>	4mm <sup>2</sup> *2+2.5mm <sup>2</sup>	2.5mm <sup>2</sup> *3+1.5mm <sup>2</sup>	4mm <sup>2</sup> *3+2.5mm <sup>2</sup>
<b>Freon (R32)</b>	1350g	1900g	2900g	3500g	3500g	3500g
<b>Compressor model</b>	Panasonic/Rotor type					
<b>Flow (m<sup>3</sup>/h)</b>	2.5	2.5	2.8	3.2	3.2	4.2
<b>Fan</b>	RD85HA1	RD85HA1	ZKSP-170-8-7	RD85HA1	RD85HA1	RD85HA1
<b>Circulation pump</b>	Grundfos	Grundfos	Grundfos	Shimge	Shimge	Shimge
<b>Refrigerant connections</b>	φ6.35+φ12.7	φ9.52+φ15.88	φ9.52+φ15.88	φ12.7+φ19.05	φ12.7+φ19.05	φ12.7+φ19.05
<b>Hydraulic pipe connections</b>	G1 "	G1 "	G1 "	G1.2 "	G1.2 "	G1.2 "
<b>Indoor unit size (L* W* H)(mm)</b>	494*280*800	494*280*800	494*280*800	494*280*800	494*280*800	494*280*800
<b>Outdoor unit size (mm) (L* W* H)</b>	1110*480*850	1110*480*850	1110*480*850	1110*445*1450	1110*445*1450	1110*445*1450
<b>Net weight (indoor/outdoor) (kg)</b>	46/88	50/90	52/92	57/146	57/146	57/155

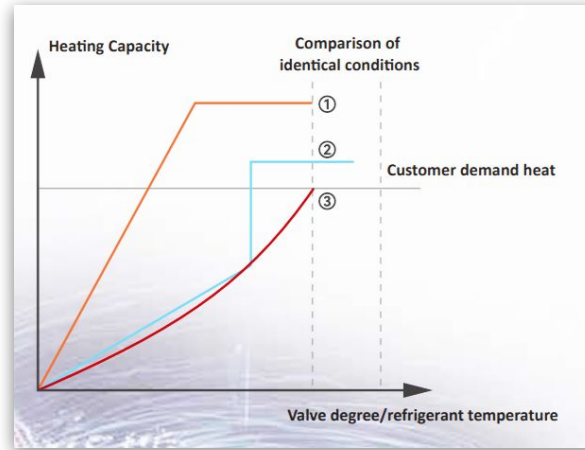
# Heat Pump Series S R32



# Inverter DC compressor

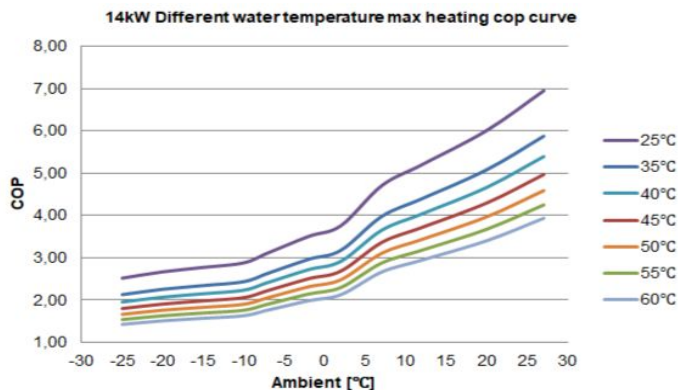
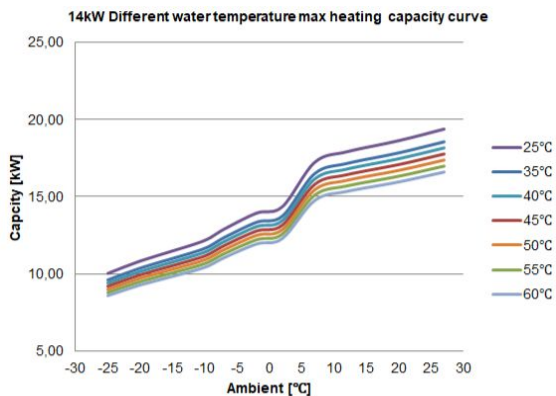
The energy saving effect is up to 59% compared with the ordinary frequency conversion unit

- Common refrigerant control technology
- EVI technology
- RTC refrigerant temperature control energy efficiency enhancement technology

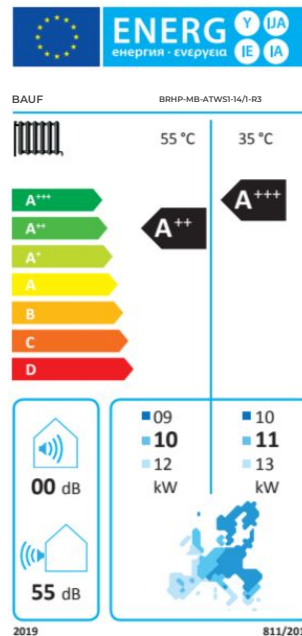


# Capacity and COP

## High efficiency at low temperatures



## SCOP and Energy Class



# Sound Power & Operation Range

## Low noise level (from 50 dB)

Sound power level, dB	
BRHP-MB-ATWS1-6/1-R3	50
BRHP-MB-ATWS1-10/1-R3	57
BRHP-MB-ATWS1-14/1-R3	55
BRHP-MB-ATWS1-18/1-R3	56
BRHP-MB-ATWS1-24/3-R3	68

## Operates efficiently at temperatures as low as -25°C

Operation range		
Cooling	°C	16~45
Heating	°C	-25~35
DHW	°C	-25~45
Water outlet		
Cooling	°C	5~25
Heating	°C	25~60
DHW	°C	20~65

# Controllers and Functions

SG ready	YES
Mute level	YES
Eco mode	8 curves
Zone control	2
Double zone ECO	YES
Built-in wired controller	WIFI module
Centralized control	MODBUS
Intelligent APP	IoT
Cascade	16



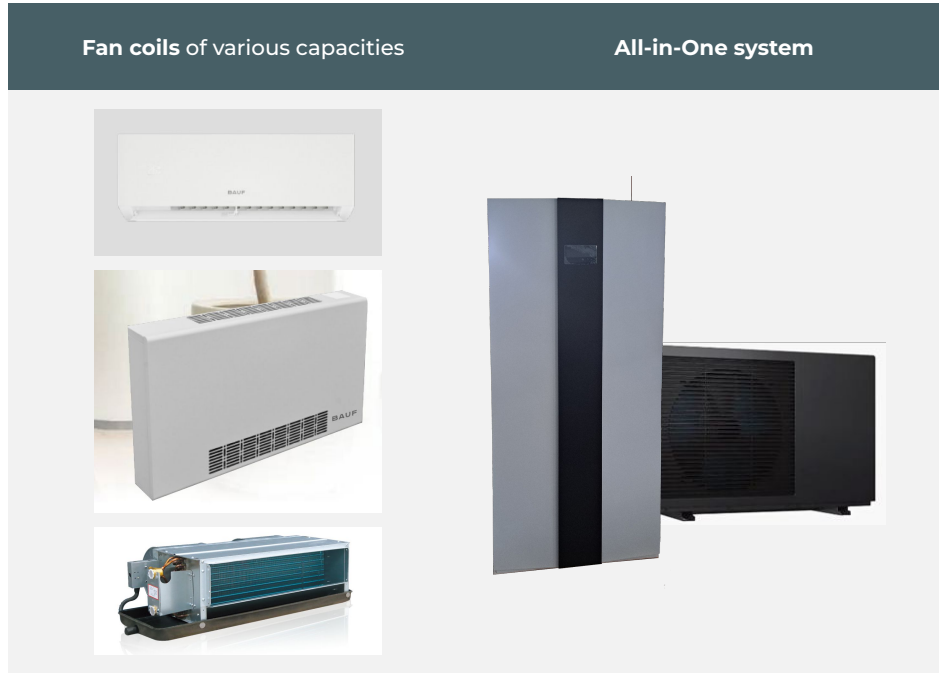
# Control for auxiliary heating

Electric Heater Type	Turn On	Turn Off
EH2	Ambient Temperatures $-7^{\circ}\text{C}$ And Water Inlet Temperature $<$ <b>Setting Temperature <math>5^{\circ}\text{C}</math></b>	Ambient Temperature $\geq -4^{\circ}\text{C}$ Or Reach Setting Temperature
EH1	Ambient Temperatures $-7^{\circ}\text{C}$ And DHW Tank Temperature $<$ <b>Setting Temperature <math>5^{\circ}\text{C}</math></b>	DHW Tank Temperature $\geq$ <b>Setting Temperature</b>

- **Free relays in the controller** can be connected to a contactor for additional heating.
- **Possible to integrate a buffer tank**, an indirect heating tank, a heating element or a boiler.
- **The controller allows for setting** the temperature at which heating will be activated

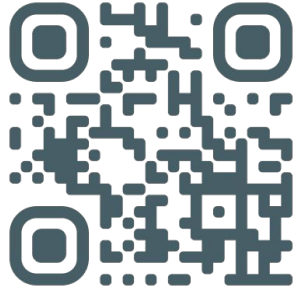
# Heat Pump Series S R32

Additional options available from BAUF for order:



# Warranty and support

Visit official website to learn more about our services, equipment warranties, and other benefits of BAUF's climate solutions.



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<https://bauf-climate.com/en>