



Inverter Heat Pump

Model R series

Air to Water | R290 Monobloc

Technical Datasheet

Tongyi TAHMV20S R Monobloc Heat Pump



Introducing the Tongyi TAHMV20S R Monobloc Inverter air-to-water heat pump, a versatile solution providing efficient heating and cooling with a rated capacity of 22.28 kW (A7W35). Engineered to meet the heating needs of well-insulated residential apartments with a floor area of up to 350m², the TAHMV20S R unit is optimized for your comfort.

Featuring R290 refrigerant, this Monobloc Heat Pump comes with integrated features including Wi-Fi control, an embedded thermostat, and an LCD touch wire controller. It supports a cascade system up to eight heat pump units and offers dual-zone operation for your convenience. The TAHMV20S R is a flexible performer, providing domestic hot water and heating to meet your residential needs.

Designed for outdoor installation, this R290 Monobloc unit is known for the simplicity of installation, reliable water system connectivity, and straightforward maintenance. The unit's standard configuration includes an IoT feature, enabling remote management of after-sales concerns and providing convenient access to efficient, renewable heating.

Elevate your living experience with Tongyi's TAHMV20S R Monobloc Inverter Heat Pump — a perfect blend of innovation, efficiency, and convenience.

Certified Excellence: Our products hold a variety of prestigious certifications, including CE, LVD, EMC, RED, ErP, ISO, RoHS, and SG Ready. They are also eligible for subsidies such as BAFA (Germany) and ISDE (Netherlands).



Intelligent Control System

- Automatic defrosting function
- Precise temperature control function WIFI
- Control app + touch-screen LCD controller
- Ultra-low temperature technology
- 24-hour IoT after-sales support system



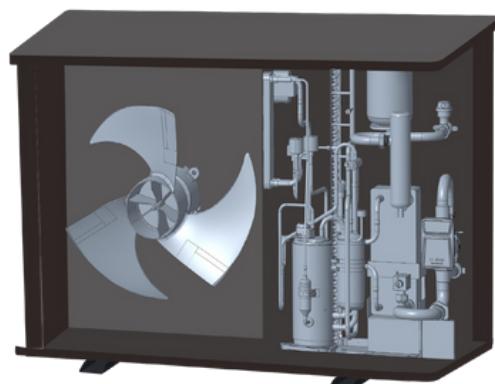
Eco-Friendly Machine

- R290 refrigerant
- Air source heating
- A+++ energy efficiency
- PV Ready function
- Smart Grid Ready function
- Energy consumption monitor (Optional)



User-Friendly Design

- Monobloc Unit Easy Installation & Maintenance
- Noise Reduction
- Heating, Cooling & Domestic Hot Water Functions
- Support cascade system (up to 8 units)
- Double Zone Control
- Floor preheat and dry-up
- Automatic Disinfection & Sterilization



Technical Data

Model	Max Capacity	ErP Level(35°C)	Range COP (35°C)	ErP Level(55°C)	Range COP (35°C)
TAHMV20S R	22.28kW	A+++	4.06~5.33	A++	3.04~3.31

PERFORMANCE

A7W35		A7W55	
Capacity Range (kW)	8.24~22.28	Capacity Range (kW)	7.39~18.81
Input Power Range (kW)	1.55~5.48	Input Power Range (kW)	2.23~6.19
Cop Range	4.06~5.33	Cop Range	3.04~3.31
A20W15-55		A35W18	
Capacity Range (kW)	11.43~19.23	Capacity Range (kW)	7.74~15.83
Input Power Range (kW)	3.92~4.71	Input Power Range (kW)	1.66~4.48
Cop Range	4.08~4.25	EER Range	3.53~4.66

POWER SUPPLY

Power Supply(Volts/Ph/Hz)	Max. Input Power (kW)	Max. Input Current (A)
380/3/50	6.85	13.40

NOISE LEVEL

1m Sound Pressure dB(A)	10m Sound Pressure dB(A)	Sound Power dB(A)
46	26	61.10

OPERATION RANGE

Ambient temperature (°C)	Water outlet temperature range (°C)	Max. Outlet Water Temperature (°C)
-25/46	5/75	75

KEY COMPONENTS

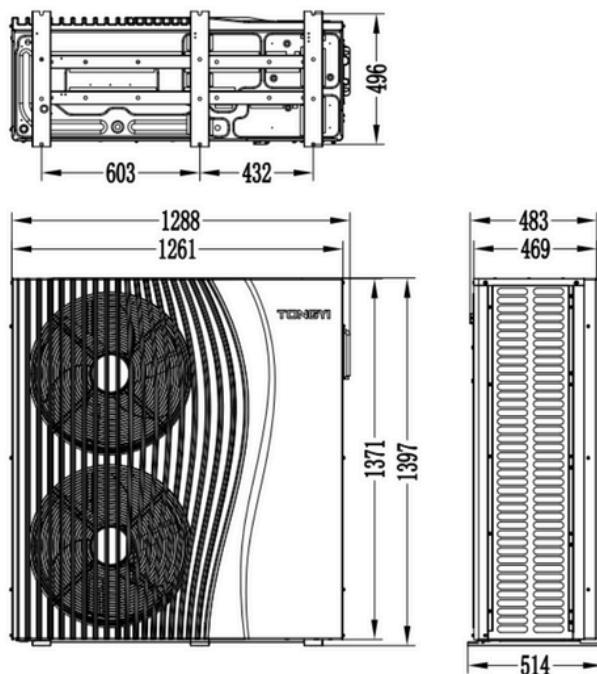
COMPRESSOR	FAN	PIPING CONNECTIONS	HYDRONIC
Panasonic DC inverter	Type	Piping Connections Inlet/Outlet	Rated WaterFlow Rate (m ³ /hr)
	BLDC	DN25	3.44

REFRIGERANT

Type	GWP	Charge (kg)	CO2 Equivalent (ton)
R290	3	1.50	0.0045

PACKING

Dimensions (Lx Wx H, mm)	Packing Dimensions (Lx Wx H,mm)	Net Wt. (kg)	Approx. Shipping Wt. (kg)
1288x514x1397	1373x554x1545	220	264



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