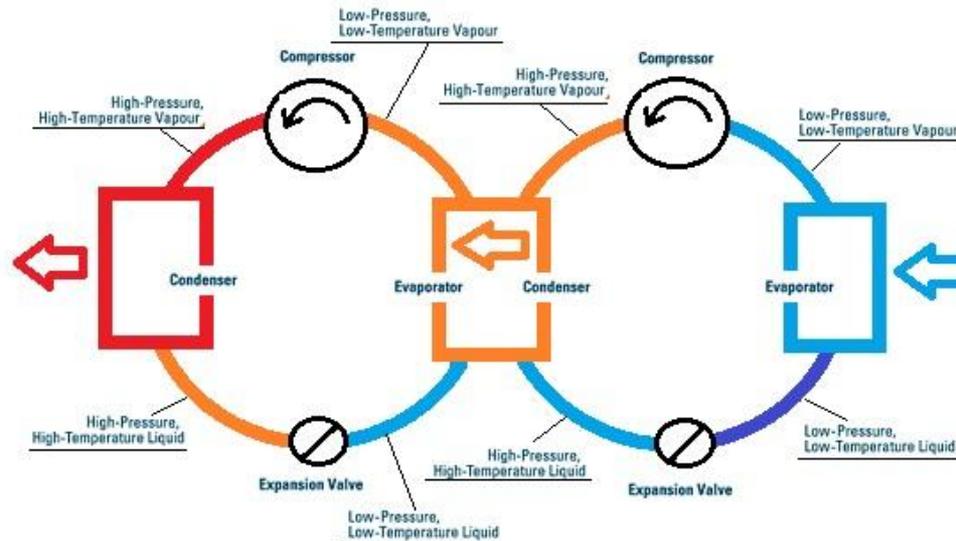


Air to Water Heat Pump DHW 20kW or 40kW / 90C

Industry 90°C high temperature **AB20INV90-20** and **AB40INV90-20** Air to Water Heat Pump Water Heater this is newest technology in the air source heat pump product line. Refrigerant R410A + R134a combine inside the system using Mitsubishi R410A DC inverter compressor as the first stage and R134a special high temperature compressor as second stage to sure machine working limit -20°C winter produce to outlet 90°C hot water 230L/h (20kW) and 460L/h (40kW) .

With the implementation of the national policy of energy saving and emission reduction and the rising of energy prices, the impact of heat and energy conservation in the industrial and commercial field has been increasing. As a kind of energy-saving technology, heat pump technology has unique advantages in saving energy and protecting the environment. However, the economy is not good under the condition of high water temperature, which restricts the popularization and application of ordinary air source heat pump.

In this context developed high-temperature air source heat pump technology is an the historic moment in heating industries. The water temperature of the our high-temperature energy water heater can reach up to 85 °C (short 90 °C), which greatly expands the application range of the air source heat pump technology.



-20°C	R410A		Inverter	Mitsubishi	60°C~90°C	R134a
ambient	refrigerant	DHW	type	compressor	outlet	refrigerant



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Air to water and geothermal heatpump

Outlet hot water temperature can set from 55°C~90°C as user requirement, so it is can widely using to make DHW and heating private or public heating systems by 65°C, 75°C, 85°C or 90°C, also hot water for industry heating using like a factories textile, printing, and drying, military industry, ironing, medicine high-temperature sterilization line and etc..

The heat pump water heater uses electricity to drive the compressor, instead of being used directly for heating. The heat energy comes from the Environment.

Saving energy is also saving money - saves the operating cost of 3/4 compared with electric heating and oil furnace; saves 2/3 running cost compared with the gas heater; saves a large labor cost and gives extra environmental protection compared with coal. If it use with the solar energy, it can save the additional running cost of 1/3 to 2/3.

Using the solar electricity in the peak periods of sun energy and run cost is saved again and again.

The scope of application: high temperature heat pump water heater can meet the heating demand of agricultural and sideline products processing industry, beverage processing industry, electroplating dyeing industry, textile printing and dyeing industry, drying industry, and other industries.



Model	AB20INV90-20		AB40INV90-20
	HP	6P	12P
Power supply	V/HZ	380-400V/50Hz	
Rated heating capacity	Kw	20,00	40,00
Rated heating input power	Kw	6,30	12,60
COP	w/w	3,20	3,20
Max input power	Kw	12,60	25,20
Max input current	A	20,50	41,00
Lock water production	L/h	230,00	460,00
Refrigerant	Type	Pre-stage R410A ,Later-stage R134a	
Heating hot water temp.rang	°C	30~90°C	
Working ambient temp	°C	-20 ~45 °C	
Compressor	Pre-stage	Type	Mitsubishi R410A
	Later-stage		DC inverter compressor
			R134a High temp compressor
Control system	Type	Hitachi DCBL controller intelligent full display	
Fluorofluoride heat exchanger	Type	316L coupled high efficiency plate heat exchanger	
Water side heat exchanger	Type	316L high efficiency plate heat exchanger	
Throttling method	Type	Electronic expansion valve	
Pressure device	Type	Built-in high and low pressure sensor	
Electronic components	Type	Schneider AC contactor	
System switching valve	Type	High temperature solenoid valve	
Noise	dB(A)	57,00	60,00
N.W/G.W	Kg	150/180	260/300
Connect pipe size	inch	Rc 1"	Rc1- 1/2"
Product net size (W*T*H)	mm	1110*560*1580	1030*900*1920



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