High Temp

120℃ DC Inverter Heat Pump Steam Generator

High-Temperature DC Inverter Cascade Heat Pump Steam Generator has a wide range application. of it is climate independent, and can cater to micro pressure steam demand in various industries.

DC Inverter Cascade Technology

The units adopt domestic DC Inverter Cascade Technology to maintain a stable heat supply for high-temperature side under different ambient temperatures. So they can realize non attenuation of heat capacity at ambient temperature of -12℃.

Maximum Outlet Temperature 125℃

Rated outlet temperature of the unit is 120℃, and maximum outlet temperature is 125℃.
So they can provide saturated steam of 120℃.
They can provide maximum water temperature of 120℃at anbient temperature of -20℃

Energy Saving and High Efficient

The units can utilize the low-grade heat in the air to generate high temperature hot water or steam. Its coefficient of performance can be 1.71 at anbient temperature of -20℃, which can save 41.5% electricity compared to electric boilers.

Ultra Wide Range of Operating Temperature

The unit can be used at anbient temperature range from -20℃ to 43℃ to meet the customers need.

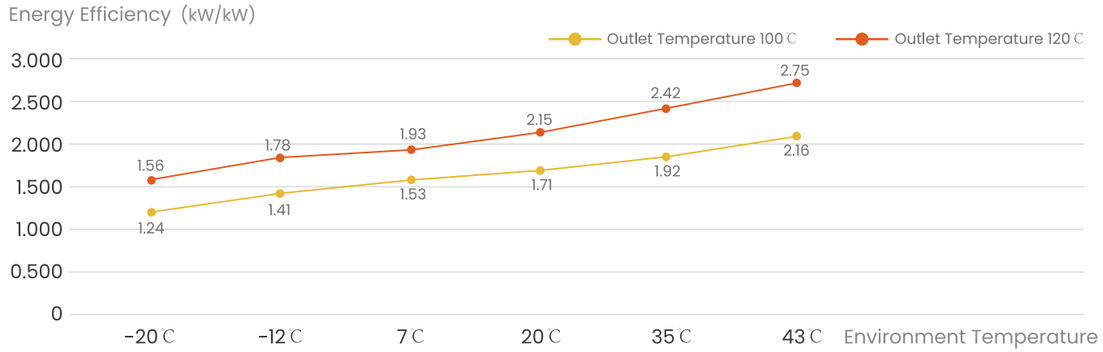
Eco Friendly Refrigerant

The unit uses electrical energy during the system operation. The refrigerants of the system R410A and R245fa, are zero-ODP and nonflammability.

Intelligent Defrosting Technology

The unit use the patented defrosting technology in air source cascade heat pump. They will not absorb the terminal heat during the defrosting process, which can reduce the temperature fluctuations. They can defrost intelligently, depending on the environmental temperature, fin temperature, suction temperature and evaporating temperature.

Energy Efficiency



Specifications

Model	NT-AS-60FTBW	NT-AS-120FTBW
Rated Heating Capacity/COP(A20W120)	60.00kW/1.72	120.00kW/1.70
Rated Outlet Temperature	120℃	120℃
Highest Outlet Temperature	125℃	125℃
Circulating Water Flow Rate	10.3m³/h	20.6m³/h
Rated Voltage/Number of Phases /Frequency	380V/3N~/50HZ	380V/3N~/50HZ
Rated Input Power/Current/COP(A20W80)	35.10kW/58.0A	70.18kW/120.0A
Maximum Input Power/Current	41.50kW/68.0A	80.5kW/135.0A
Maximum Working Pressure of High-Temperature Side	2.5MPa	2.5MPa
Maximum Working Pressure of Low-Temperature Side	4.2MPa	4.2MPa
Water-Side Design Pressure	10MPa	10MPa
Water-Side Resistance	50kPa	50kPa
Circulating Interface Size	Dn65	Dn80
Overall Dimensions (L*W*H)	2180*1270*2100mm	2400*1400*2400mm
Noise	68dB(A)	72dB(A)
Temperature Range	-20°C~43°C	-20°C~43°C
Total Mass	1000kg	1800kg