



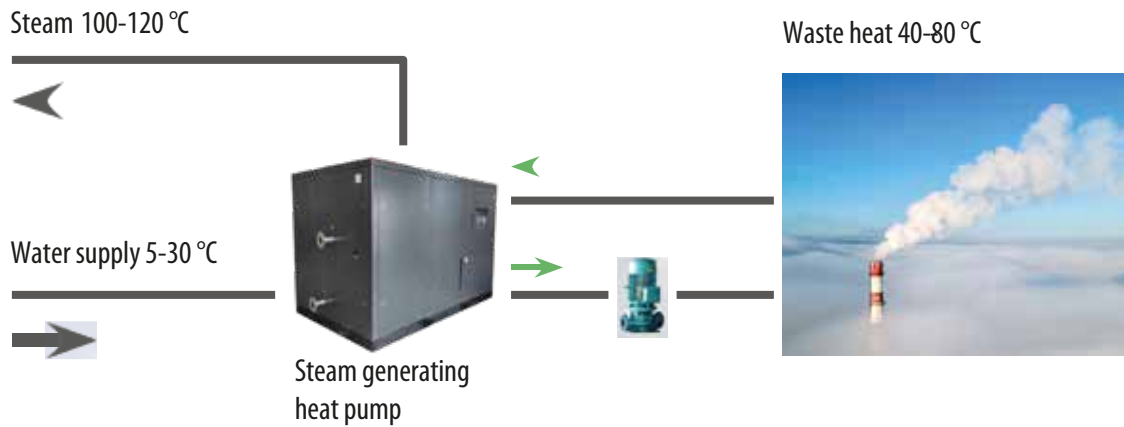
AURAS HOLDING

EST 1996

STEAM GENERATING HEAT PUMP



OPERATIONAL PRINCIPLE OF THE STEAM GENERATING HEAT PUMP



1. Capable of producing steam up to 120 °C
2. Ideal waste heat 70 °C
3. Electricity
4. If the factory has waste heat, the steam generator can also work perfectly on its own.
5. If the factory does not have waste heat, the system must consist of two parts. One is the tap water preheater unit, which heats the tap water from 20-60 °C to 60 °C, and the other is the steam generator, which uses the preheated 60 °C water as a heat source.

Cost comparison / Cost of producing 1 tonne of 120 °C steam

	Gas boiler	Steam generating heat pump	Electric boiler
Energy Source	Natural gas	electricity	Electricity
Price	3.2 €/m ₃	0.5 €/kWh	0.5 €/kWh
Energy consumption	106 m ₃	241.6 kWh	724.8 kWh
Cost	340 €/Ton	121 €/Ton	362 €/Ton

TECHNICAL DATA SHEET

400RVSG

INVERTER (R744) heat pump steam generator			
Model		RVS	400RVSG
Power consumption		A	199
Standard temperature condition	Heat Output	kW	395
	Steam volume	L/H	545
	Power Takeoff	kW	131
	COP	W/W	3
Power Supply	V / Ph / Hz	400V / 3PH / 50/60Hz	
Waste heat water flow		m ³ /H	45
Nominal steam temperature		°C	120
Waste heat temperature range		°C	40~80
Water needed to produce steam		°C	20~115
Absolute steam pressure		Bar	2
Compressor	Type	Dorin	
Used water pipe		DN65	
Steam pipe		DN65	
Dimensions	Length	mm	2800
	Width	mm	1750
	Height	mm	1900
Noise level of the device		dB(A)	50
Net Weight		kg	1800
Inverter			DC

Note:

Test conditions: waste heat input 60 °C, waste heat output 55 °C, steam 120 °C.

TECHNICAL DATA SHEET

150RVSG

INVERTER (R744) heat pump steam generator			
Model		RVS	150RVSG
Power consumption		A	76.5
Standard temperature condition	Heat Output	kW	151
	Steam volume	L/H	208
	Power Takeoff	kW	50.3
	COP	W/W	3
Power Supply	V / Ph / Hz	400V / 3PH / 50/60Hz	
Waste heat water flow		m ³ /H	19
Nominal steam temperature		°C	120
Waste heat temperature range		°C	40~80
Water needed to produce steam		°C	20~115
Absolute steam pressure		Bar	2
Compressor	Type	Dorin	
Used water pipe		DN50	
Steam pipe		DN32	
Dimensions	Length	mm	2200
	Width	mm	1200
	Height	mm	1800
Noise level of the device		dB(A)	48
Net Weight		kg	1200
Inverter			DC

Note:

Test conditions: waste heat input 60 °C, waste heat output 55 °C, steam 120 °C.