



CO₂ Hot Water Heater Efficiency Sustainable

Product Catalogue



Dairy CO₂ Hot Water Heater



CO₂ Heat Pump



Hot Water Supply



Rapid Heating



Heat Pump Energy Solutions

Electronic Expansion Valve

Whit electronic expansion valve, it can instantly adjust refrigerant flow to ensure the stability of the refrigeration system



VFD Water Pump

Connect to the water inlet of the machine to make water flow into the pipe



Plate Heat Exchanger

Thin rectangular channels are formed between various plates, and heat exchange is carried out through the plates, which has the advantage of high heat exchange efficiency



Carel Control

Make sure the system is maintaining stability

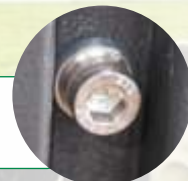


Pressure Sensor

Pressure sensor can detect system pressure and transmits the signal to the main board to protect the unit



Stainless Steel
Anti-corrosion



RS485 Centralized Control

Green Therm Series is highlighted with central control system as a RS485 serial port is designed for communications in every unit.



CO₂ Hot Water Heater is known as the highest COP Dairy System



Dairy Co₂ Heat Pump



- Monoblock Inverter VFD control
- Works efficiently even in low ambient, minimum working conditions -25 °C
- CE and ERP certificate
- Intelligent defrosting and anti-freezing protection
- Low working noise

Parameters		E2E	8ZW-NZ	14ZW-NZ
Standard Temperature Condition	Heating Capacity	kW	7.8	13.6
	Hot Water Capacity	L/H	149	259.8
	Heating Power Input	kW	1.7	3
	COP	W/W	4.58	4.6
Low Temperature Range	Heating Capacity	kW	7	12.1
	Hot Water Capacity	L/H	118	203.9
	Heating Power Input	kW	1.7	3
	COP	W/W	4.1	4.1
Ultra-low Temperature Range	Heating Capacity	kW	6.5	11.2
	Hot Water Capacity	L/H	109	188.8
	Heating Power Input	kW	1.71	2.9
	COP	W/W	3.8	3.9
Power Supply	V/Ph/Hz		230V/1PH/50~60Hz	230V/1PH/50~60Hz
Heating Type			Instant	Instant
Rated Output Water Temperature	°C		45	45
Maximum Output Water Temperature	°C		90	90
Work Ambient Temperature	°C		(-)25-43	(-)25-43
Compressor	Type		Panasonic	Panasonic
Circulation Water Pump	Brand		Nidec (DC)	Nidec (DC)
	Power	kW	0.05	0.08
Defrosting Type			Bypass	Bypass
Water Connection Pipe Size	mm		DN20	DN20
Water Side Heat Exchanger	Type		Plate HX	Plate HX
Air Side Heat Exchanger	Type		Condenser Coil	Condenser Coil
Refrigerant	Type		R744/CO ₂	R744/CO ₂
Controller	Brand		CAREL(Italy)	CAREL(Italy)
Dimensions	Length	mm	910	1060
	Width	mm	488	488
	Height	mm	1000	1380
Unit Noise Level	dB(A)		46	48
Net Weight	kg		130	200
Inverter			DC	DC

Note:

1. Standard temperature condition: ambient temperature 20°C, water temperature: inlet 15°C, outlet 60°C

2. Low temperature condition: ambient temperature 7°C, water temperature: inlet 9°C, outlet 60°C

3. Ultra-Low temperature condition: ambient temperature -7°C, water temperature: inlet 9°C, outlet 60°C