VERSION20190112

TRÖSTEN

HEAT PUMP

ECO

TRÖSTEN

About Us

Zhejiang CEN New Energy Stock Co., Ltd. was established in year 2001, in the early time, the company mainly produces solar water heater controllers and other related products. In 2009, General Manager Xia Qing decided to transform the product, especially set up the heat pump department. The company began to focus on the production and sales of heat pump water heater products, and with the establishment of the water tank production workshop in 2013, formed a research and development, production and sales system of heat pump control system, heat pump water heater and water tank.

In the solar water heater control system, our company has maintained the top three level in China for a long time. In the field of heat pump water heaters, we started to enter the field of real estate engineering in 2017 and achieved remarkable results. In this field, our household heat pump water heaters Sales ranked second in the province.

In the international market, our products have passed the CE certification of the European Union by TUV, and the sales volume of our products is growing rapidly and steadily at a rate of 20%~30% per year.

In 2017, we successfully listed on the New Third Board and began to officially move into the capital market.
And moved into a new factory in the same year, with a total plant area of about 50,000 square meters.

Our GMPI-certified heat pump laboratory can test the unit's capacity from 1HP to 30HP, the minimum test ambient temperature can reach -30 degrees Celsius, and the highest test ambient temperature is 52 degrees Celsius.

Looking forward to the future, we will continue to focus on the broad heat pump field, making our own contribution to energy conservation and environmental protection, providing comfortable hot water for thousands of families.

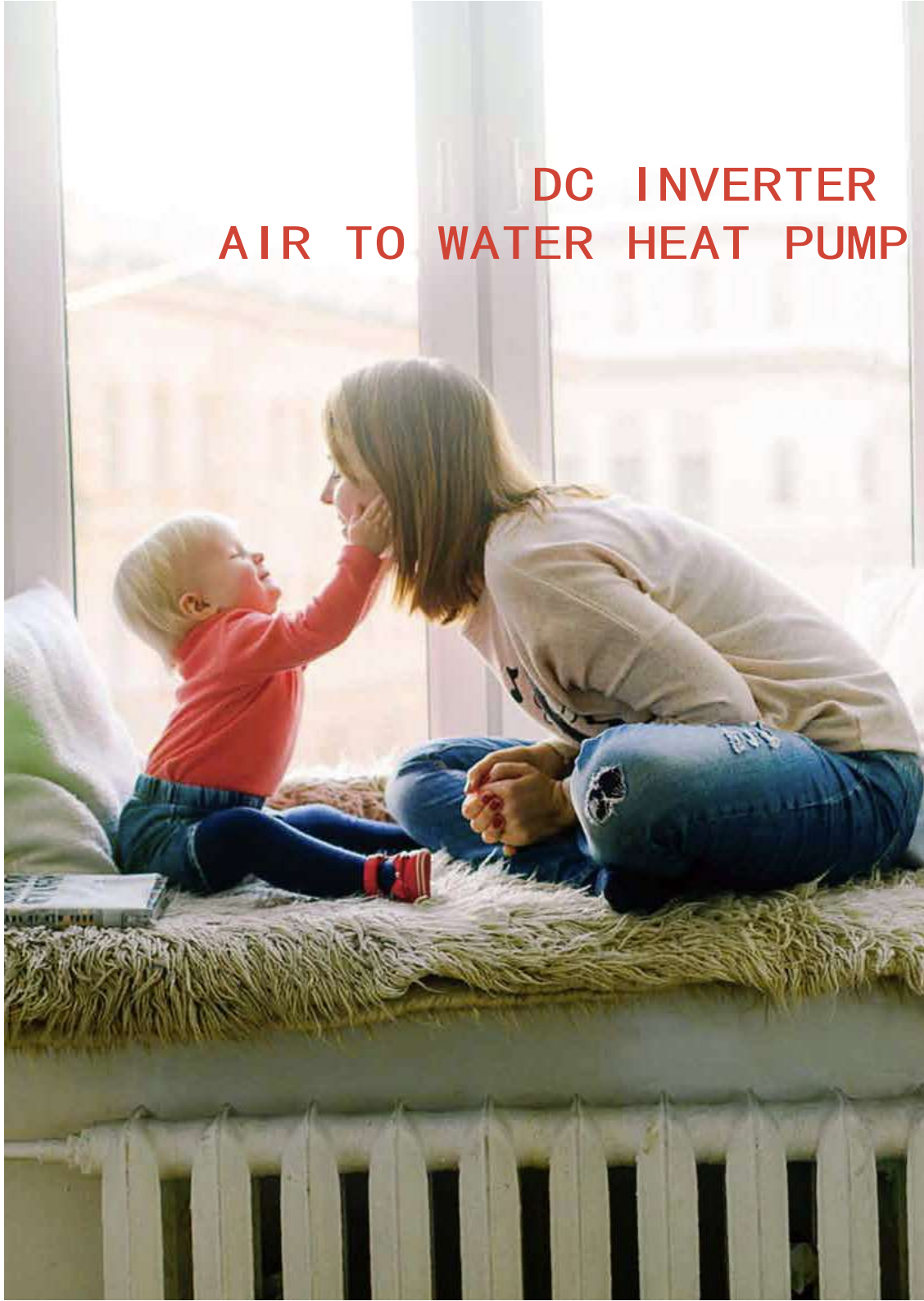
ISO9001-2015
Quality Management System for Quality Assurance
Certificate No.: ARES/CN/1701019Q

OHSAS18001:2007
Occupation Health Safety Management System
Certificate No.: 12816S20193ROS

ISO14001-2015
Environmental Management System
Certificate No.: ARES/CN/1706042E

Laboratory issued by GMPI
Certificate No.: RZ-ZL-2017171

DC INVERTER
AIR TO WATER HEAT PUMP



TRÖSTEN

POLESTAR series DC INVERTER MONOBLOCK TYPE HEAT PUMP FOR COOLING & HEATING & HOT WATER

Model		RF8I/bd	RF12I/bd	RF16I/bd	RF20I/bd	RF20II/bd	RF27II/bd	RF32II/bd
Power Supply V/Ph/Hz		220~240/1/50				380/3/50		
Rated Condition 7℃	Heating Capacity (KW)	8.5	15	18	20	20	27	32
	Power Input (KW)	2.66	4.36	5.21	5.88	5.88	8.08	9.97
	COP	3.2	3.44	3.45	3.4	3.4	3.34	3.21
Nominal Condition -12℃	Heating Capacity (KW)	5.50	10.50	12.13	14.5	14.5	18.7	22.5
	Power Input (KW)	2.33	4.40	5.05	6.01	6.02	7.76	9.34
	COP	2.36	2.40	2.40	2.41	2.41	2.41	2.41
Low Temp. Condition -20℃	Heating Capacity (KW)	4.70	9.21	10.52	12.5	12.5	16	18.1
	Power Input (KW)	2.47	4.56	5.18	6.25	6.25	8	9.28
	COP	1.90	2.02	2.03	2	2	2	1.95
Low Temp. Condition -25℃ /Water output temp. 41℃	Heating Capacity (KW)	3.55	6.82	8.76	10.35	10.35	12	14.4
	Power Input (KW)	2.20	4.21	5.03	6.02	6.02	7.06	8.72
	COP	1.61	1.62	1.74	1.72	1.72	1.7	1.65
Low Temp. Condition -25℃ /Water output temp. 50℃	Heating Capacity (KW)	3.19	6.14	8.08	9.59	9.58	10.5	12.6
	Power Input (KW)	2.28	4.23	5.69	6.81	6.81	7.5	9
	COP	1.40	1.42	1.42	1.41	1.41	1.4	1.4
Rated Cooling Condition	Cooling capacity (KW)	7.00	11.50	12.00	15.00	15.00	19	23
	Power input (KW)	2.64	4.34	4.61	5.75	5.74	7.3	8.84
	EER	2.65	2.65	2.60	2.61	2.61	2.6	2.6
Max. power input (KW)		4.4	5.2	6.6	7.1	8.5	10.5	12.5
Max. current Without E-heater (A)		20	23.7	30	32.5	15.5	20	23.5
Max. Water Output Temp. Under Ambient Temp. -25℃		58	58	58	58	58	58	58
Water resistance (kPa)		35	38	43	54	50	35	45
Noise Level dB(A)		59.5	61.5	61.5	62	63	64	64
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Water Flow		0.95 m^3/h	1.98 m^3/h	2.06 m^3/h	2.5 m^3/h	2.5 m^3/h	3.22 m^3/h	3.87 m^3/h
Pipe Size		DN20	DN25				DN32	
Dimensions(mm)		920*365*710	940*393*1373				1118*425*1556	
Net Weight		60Kg	130kg	130kg	140kg	145kg	155kg	165kg

Testing Condition:
- Rated condition: Inlet/outlet temperature 40°C/45°C. Dry bulb/wet bulb temperature 7°C/6°C
- Nominal condition: Outlet temperature 41°C. Dry bulb/wet bulb temperature -12°C/-14°C
- Low temperature condition: Outlet temperature 41°C. Dry bulb/wet bulb temperature -20°C/-21°C
- Rated cooling: Inlet/outlet temperature 12°C/7°C. Dry bulb/wet bulb temperature 35°C/24°C