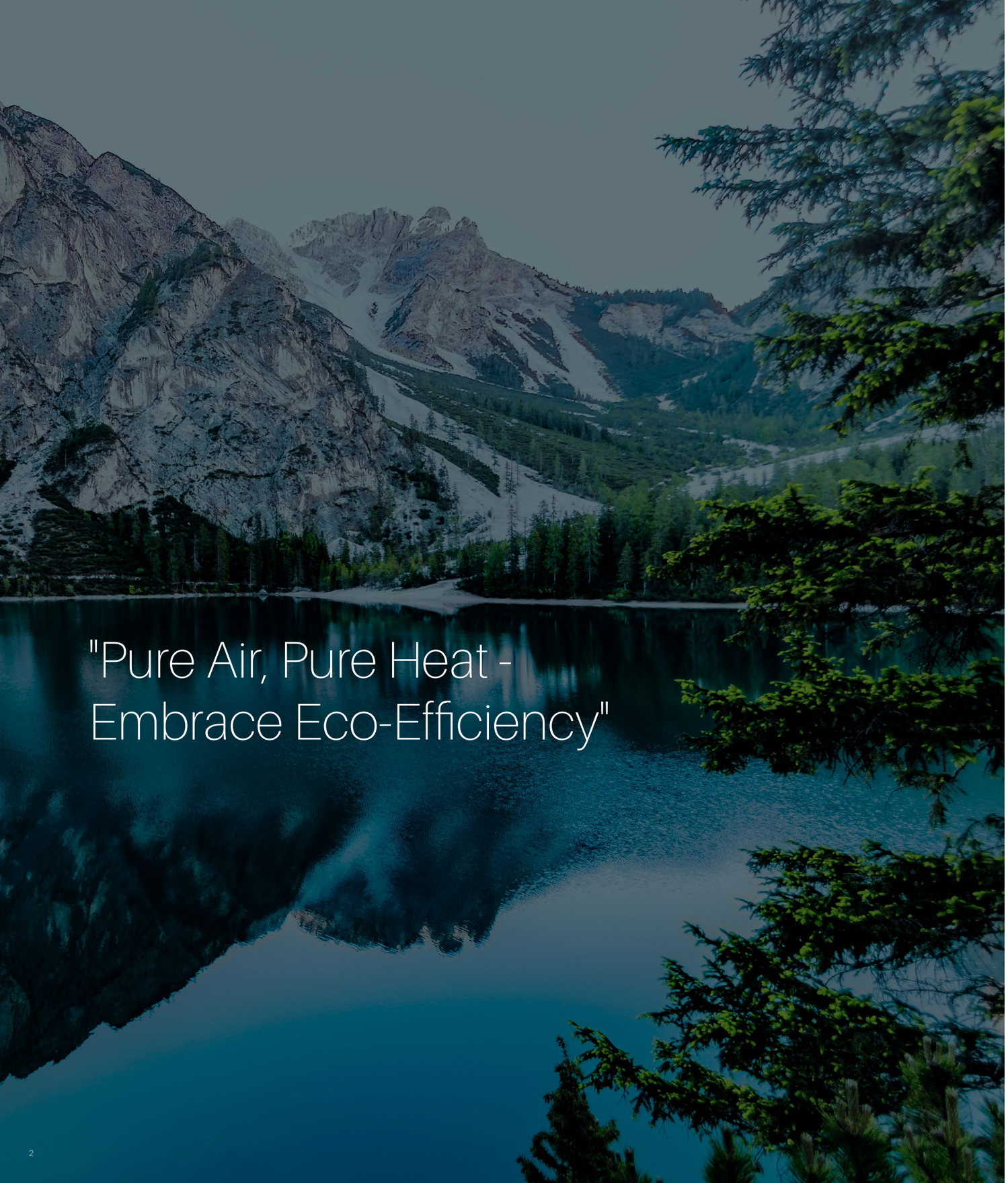
TRÖSTEN

Breathing New Life into Buildings

The Air Source Heat Pump Way





Our mission:

"To contribute to a green future by pioneering energy-efficient, air source heat pump technologies that lessen our carbon footprint."

Our vision for a sustainable future drives our mission. As a heat pump factory, we harness the power of innovation to develop energy-efficient technologies that minimize carbon footprint. We strive to lead by example, fostering a culture of environmental responsibility, and creating heating solutions that make a positive and lasting impact on our planet.

For a viable future

With over a decade's experience in air source heat pump technology, Solareast Heat Pump Ltd. stands as a pioneer in providing sustainable and efficient thermal energy solutions. Our innovative approach has touched more than 25 million households and over 20,000 engineering customers across 100 countries, underlining our extensive global reach and customer-centric strategy.

Our dedication to creating sustainable heating solutions forms the core of our operations, establishing us as a dependable partner in both residential and commercial sectors. Our energy-efficient, air-source heat pumps align seamlessly with our mission to contribute to a greener future, making heating more sustainable one installation at a time.

As we journey forward, we stay anchored in our guiding principles of innovation, sustainability, and customer satisfaction. We are committed to offering world-class, eco-friendly heating solutions, promoting a sustainable lifestyle while ensuring a warm and comfortable environment for our customers. We remain dedicated to transforming the global heating landscape and creating a healthier planet for future generations.

MONOBLOCK
HEAT PUMP

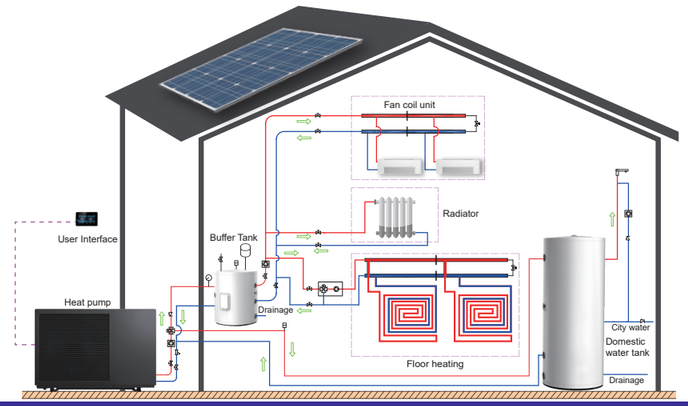
Heating / Cooling / DHW / DC Inverter / Residential Type



Features

- R290 refrigerant,low GWP(GWP=3)
- Energy class: A+++
- Stable operation at -25°C
- Outlet water temperature up to 75 ℃
- Power Detection Function
- SG-READY Function
- 5-Inch TFT True Color Screen
- 5G/2.4G Compatible WIFI Module
- Dual Temperature Zone
- Reserved RS485 Communication Port
- Linkage Control with PV Function





Heat Pumps in Action: Various Application Scenarios

T E C H N I C A L D A T A

Model			BLN-006TC1	BLN-008TC1	BLN-008TC3	BLN-012TC1	BLN-012TC3	BLN-018TC1	BLN-018TC3
Power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50	220~240/1/50	380~415/3/50
Nominal Heating (Max) (A7/6℃,W30/35℃)	Heating capacity	kW	2.92 ~ 9.10	4.10 -12.10	4.10 -12.10	4.30 ~ 15.20	4.30 ~ 15.20	7.24 ~ 21.90	7.24 ~ 21.90
	Power input	kW	0.61 ~ 2.11	0.79 -2.85	0.79 -2.85	0.87 ~ 3.73	0.87 ~ 3.73	1.50 ~ 5.88	1.50 ~ 5.88
	Current input	A	2.80 ~ 9.25	3.45-13.04	1.62-4.57	4.02 ~ 16.38	1.78 ~ 6.04	6.86 ~ 30.25	2.82 ~ 9.16
	COP	W/W	4.31 ~ 5.66	4.24 - 5.57	4.24 - 5.57	4.07 ~ 5.57	4.07 ~ 5.57	3.82 ~ 5.59	3.82 ~ 5.59
Nominal Heating (Max) (A7/6℃,W47/55℃)	Heating capacity	kW	2.99~8.16	4.05-12.15	4.05-12.15	4.25 ~ 14.55	4.25 ~ 14.55	6.36 ~ 19.45	6.36 ~ 19.45
	Power input	kW	1.03~2.92	1.38-4.06	1.38-4.06	1.45 ~ 4.28	1.45 ~ 4.28	2.15 ~ 6.85	2.15 ~ 6.85
	Current input	A	4.57~12.79	5.73-17.70	2.70-6.43	6.71 ~ 18.80	2.84 ~ 6.78	9.84 ~ 30.12	3.71 ~ 10.60
	COP	W/W	2.79 ~ 3.46	2.99 - 3.45	2.99- 3.45	2.83 ~ 3.45	2.83 ~ 3.45	2.84 ~ 3.57	2.84 ~ 3.57
Nominal Cooling (Max) (A35/24℃,W12/7℃)	Cooling capacity	kW	1.38~5.70	3.65-8.59	3.65-8.59	3.65 ~ 11.04	3.65 ~ 11.04	4.55 ~ 17.20	4.55 ~ 17.20
	Power input	kW	0.67~2.44	1.12-3.31	1.12-3.31	1.12~3.97	1.12 ~ 3.97	1.85 ~ 7.31	1.85 ~ 7.31
	Current input	A	3.06~10.27	5.18-14.47	1.97-5.25	5.18~17.44	1.97 ~ 6.30	8.47 ~ 32.1	2.99 ~ 11.26
ERP level (outlet water temp. at 35℃)		/	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Max. input power		kW	3.5	5.40	5.85	5.40	5.85	7.5	10.5
Max. input current		A	15.0	25.0	10.0	25.0	10.0	35.0	17.0
Refrigerant Type / Charge / GWP		... / kg	R290 / 0.55 / 3	R290 / 1.05 / 3	R290 / 1.05 /3	R290 / 1.05 / 3	R290 / 1.05 /3	R290 / 1.4 / 3	R290 / 1.4 / 3
Rated water flow		m^3/h	1.00	1.4	1.4	2.06	2.06	3.1	3.1
Fan quantity		/	1	1	1	1	1	2	2
Fan motor type		/	DC inverter						
Compressor		/	DC inverter						
Circulating pump		/	Inverter type / Built-in						
IP class		/	IPX4						
Sound pressure at 1m distance		dB(A)	46	43	43	53	54	56	56
Max outlet water temperature		℃	75	75	75	75	75	75	75
Water piping connections		/	G1	G1	G1	G1	G1	G1 - 1 / 4	G1 - 1 / 4
Water Pressure drop		kPa	20	20	20	20	20	55	55
Operating temperature range (heating mode)		℃	-25~45						
Operating temperature range (cooling mode)		℃	16~45						
Unpacked dimensions (L*D*H)		mm	1187*418*805	1287*448*904	1287*448*904	1287*448*904	1287*448*904	1187*488*1456	1187*488*1456
Packed dimensions (L*D*H)		mm	1217*463*920	1317*493*1020	1317*493*1020	1317*493*1020	1317*493*1020	1217*538*1570	1217*538*1570
UnPacked weight		kg	110	134	134	134	134	195	195
Packed weight		kg	122	146	146	146	146	208	208

* Please refer to the nameplate for product upgrades or changes in specifications without prior notice.