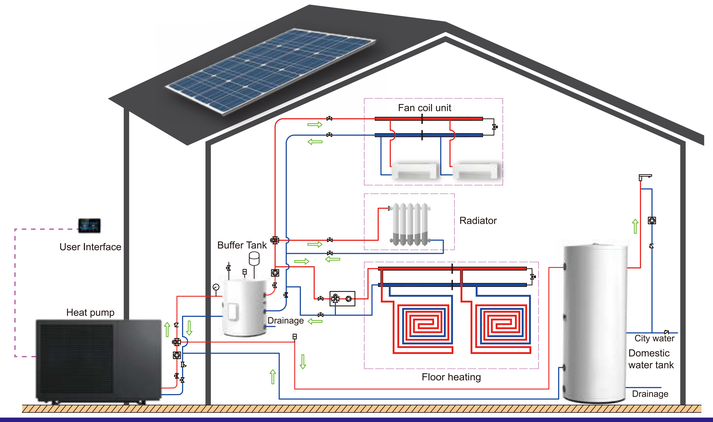
R290 MONOBLOCK HEAT PUMP

Heating / Cooling / DHW / DC Inverter / Residential Type

Features

- R290 refrigerant, low GWP=3)
- Energy class: A+++
- Stable operation at –25°C
- Outlet water temperature up to 75°C
- 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
Maximum water temperature outlet		°C	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)		°C	–25~45						
Operating temperature range (cooling mode)		°C	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.