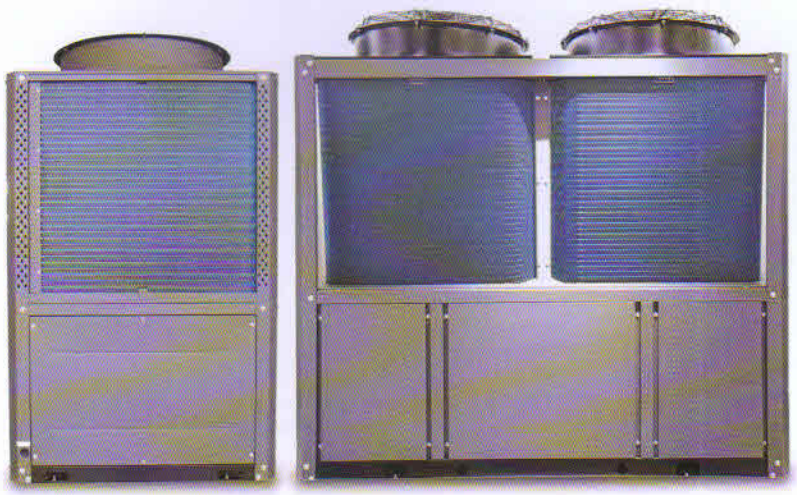
KNAPS
TECHFAB INDIA LLP®
TOP IN TECHNOLOGY, TOP IN QUALITY

R290 INVERTER COMMERCIAL HEAT PUMP

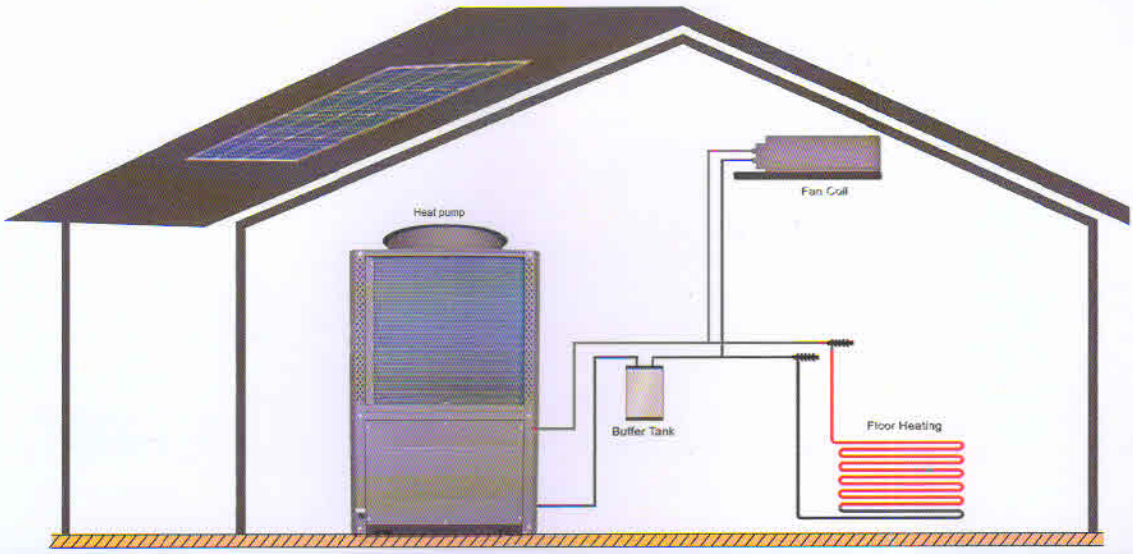
Heating / Cooling / DHW / Commercial Type



R290 | MODBUS

Features

- R290 refrigerant low GWP 3
- WiFi remote control available
- Stable operation at minus 25 °C
- Integrated power consumption module
- Seamless IoT management supported
- MODBUS RS485 communication ready
- Higher water temperature output up to 75°C
- OTA and DTU connectivity included
- Maximum 16 heat pumps operable in parallel



Heat Pumps in Action: Various Application Scenarios

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

Model			BLN-050TC3	BLN-075TC3	BLN-100TC3
Power Supply		V/Ph/Hz	380~415/3/50	380~415/3/50	380~415/3/50
Heating (A7/6°C,W30/35°C)	Capacity	kBTU/h	59.92~170.61	69.06~306.85	91.79~407.82
	Capacity	kW	17.56~50	20.24~89.93	26.90~119.52
	Power Input	kBTU/h	8.91~43.95	12.45~73.36	16.62~97.76
	Power Input	kW	2.61~12.88	3.65~21.50	4.87~28.65
	COP	/	3.88~6.73	4.18~5.55	4.17~5.52
Heating (A7/6°C,W47/55°C)	Capacity	kBTU/h	51.25~167.20	67.12~312.52	89.21~415.36
	Capacity	kW	17.95~49	19.67~91.59	26.145~121.73
	Power Input	kBTU/h	11.87~58.69	19.28~100.18	25.66~133.52
	Power Input	kW	3.48~17.2	5.65~29.36	7.52~39.13
	COP	/	2.85~5.16	3.08~3.44	3.11~3.48
Cooling (A35/24°C,W12/7°C)	Capacity	kBTU/h	34.12~119.43	38.01~219.91	50.53~292.25
	Capacity	kW	10~35	11.14~64.45	14.81~85.65
	Power Input	kBTU/h	13.10~49.48	10.37~75.00	13.82~99.98
	Power Input	kW	3.84~14.50	3.04~21.98	4.05~29.30
	COP	/	2.41~2.60	2.93~3.66	2.92~3.66
ERP Level (Outlet water temperature at 35°C)		/	A++	A+++	A+++
MAX. input power		kW	19.84	45.84	60.92
MAX. input current		A	30.30	70.6	93.82
Refrigerant /GWP			R290/3	R290/3	R290/3
Rated water flow		m^3/h	8.60	12.9	17.2
Fan quantity		/	1	2	2
Fan motor type		/	DC inverter	DC inverter	DC inverter
Compressor		/	Hitachi DC inverter	Hitachi DC inverter	Hitachi DC inverter
IP Class		/	IPX4	IPX4	IPX4
Sound pressure at 1m distance		dB(A)	65	65	67
Max outlet water temperature		°C	75	75	80
Water piping connections		/	DN 40 (G 1-1/2")	DN65	DN65
Water Pressure drop(max)		kPa	65	23	22
Min/Max Water Pressure		MPa	0.1/0.3	0.1/0.3	0.1/0.3
Operating temperature range (Heating mode)		°C	-25~45	-25~45	-25~35
Operating temperature range (Cooing mode)		°C	16~45	16~45	16~45
Unpacked Dimensions (L×D×H)		mm	1155*990*1880	2200*1168*2180	2200*1330*2375
Packed Dimensions (L×D×H)		mm	1238*1058*2033	/	/
Net Weight		kg	500	770	950
Packed Weight		kg	540	/	/
Container Loading quantity(20GP/40HQ)		/	9/20	4/9	/

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