

# sunrain Air Source Heat Pump R290 Heating/Cooling/DHW



Model		BLN-006TC1	BLN-012TC1	BLN-018TC1	BLN-012TC3	BLN-018TC3	
<b>Certificates</b>	ERP/CE/Keymark/SG Ready/BAFA/UKCA/PED/LVD						
<b>Warranty</b>	2 years for the whole unit, 5 years for compressor						
<b>Delivery Time</b>	30 days after receipt of advance payment						
<b>Rated voltage / Frequency</b>	220-240V~/50(60)Hz			380-415V/3N~/50(60)Hz			
Heating <sup>1</sup>	Capacity	kW	2.92-9.10	4.30-15.20	7.24-21.90	4.30-15.20	7.24-21.90
	Input Power	kW	0.61-2.11	0.87-3.73	1.50-5.88	0.87-3.73	1.50-5.88
	Input Current	A	2.80-9.25	4.02-16.38	6.86-30.25	1.78-6.04	2.82-9.16
	COP	W/W	4.31-5.66	4.07-5.57	3.82-5.59	4.07-5.57	3.82-5.59
Heating <sup>2</sup>	Capacity	kW	2.99-8.16	4.25-14.55	6.36-19.45	4.25-14.55	6.36-19.45
	Input Power	kW	1.03-2.92	1.45-4.28	2.15-6.85	1.45-4.28	2.15-6.85
	Input Current	A	4.57-12.79	6.71-18.80	9.84-30.12	2.84-6.78	3.71-10.60
	COP	W/W	2.79-3.46	2.83-3.45	2.84-3.57	2.83-3.45	2.84-3.57
Cooling	Capacity	kW	1.38-5.70	3.65-11.04	4.55-17.20	3.65-11.04	4.55-17.20
	Input Power	kW	0.67-2.44	1.12-3.97	1.85-7.31	1.12-3.97	1.85-7.31
	Input Current	A	3.06-10.27	5.18-17.44	8.47-32.1	1.97-6.30	2.99-11.26
SCOP (Water Temp. At 35°C)		4.83	4.77	4.81	4.74	4.79	
SCOP (Water Temp. At 55°C)		3.71	3.77	3.72	3.70	3.71	
Rated Input Power	kW	3.5	5.40	7.50	5.85	10.5	
Rated Input Current	A	15.0	25.0	35.0	10.0	17.0	
Refrigerant Type/Charge/GWP	.../kg	R290/0.55/3	R290/1.05/3	R290/1.4/3	R290/1.05/3	R290/1.4/3	
CO <sub>2</sub> Equivalent	/	0.0017t	0.0032t	0.0042t	0.0032t	0.0042t	
Operation Pressure(Low Side)	MPa	0.8	0.8	0.8	0.8	0.8	
Operation Pressure(High Side)	MPa	3.0	3.0	3.0	3.0	3.0	
Maximum Allowable Pressure	MPa	3.2	3.2	3.2	3.2	3.2	
Electrical Shockproof	/	I	I	I	I	I	
IP Class	/	IPX4	IPX4	IPX4	IPX4	IPX4	
Max. Outlet Water Temp.	°C	75	75	75	75	75	
Operating Ambient Temperature	°C	-25~45	-25~45	-25~45	-25~45	-25~45	
Water Piping Connections	inch	G1	G1	G1-1/4	G1	G1-1/4	
Rated Water Flow	m <sup>3</sup> /h	1.0	2.06	3.10	2.06	3.1	
Water Pressure Drop	kPa	20	20	55	20	55	
Min/Max Water Pressure	MPa	0.1/0.3	0.1/0.3	0.1/0.3	0.1/0.3	0.1/0.3	
Sound pressure Level	dB(A)	46	53	56	54	56	
Net Dimensions (L×W×H)	mm	1187×418×805	1287×448×904	1187×488×1456	1287×448×904	1187×488×1456	
Net Weight	kg	110	134	195	134	195	
<b>Rated Test Conditions:</b>							
Heating <sup>1</sup> : Ambient Temp 7°C/6°C(DB/WB),Water-In/Out Temp 30°C/35°C Heating <sup>2</sup> : Ambient Temp 7°C/6°C(DB/WB),Water-In/Out Temp 47°C/55°C Cooling: Ambient Temp 35°C/24°C(DB/WB),Water-In/Out Temp 12°C/7°C							

**Optional Parts:**

Colorful TFT-LCD controller  
DTU lot module



SMHP Series  
With 4" TFT Controller  
Electricity Monitoring Function

