

R290 DC Inverter Air Source Heat Pumps (Monoblock Type)



Model			BULG Mono Pro 6.5KW			BULG Mono Pro 9.1KW			BULG Mono Pro 12KW			BULG Mono Pro 15.2KW			BULG Mono Pro 25KW		
Power Supply / Refrigerant		V/Hz/Ph	220-240/50/1			220-240/50/1			220-240/50/1			380-420/50/3			380-420/50/3		
Max. Heating Capacity (A7℃/W35℃)		kW	6.5			9.1			12			15.2			25		
Min. C.O.P (A7℃/W35℃)		W/W	4.4			4.2			3.9			3.9			3.95		
Heating Capacity Min./Max.(A7℃/W35℃)		kW	2.20 / 6.50			3.15 / 9.10			4.35 / 12.00			5.60 / 15.20			8.15 / 25.00		
Heating Power Input Min./Max.(A7℃/W35℃)		W	441 / 1477			626 / 2167			885 / 3073			1125 / 3900			1630 / 6329		
C.O.P Min./Max.(A7℃/W35℃)		W/W	4.4 / 4.99			4.2 / 5.03			3.90 / 4.92			3.90 / 4.98			3.95 / 5.00		
Max. Heating Capacity(A7℃/W45℃)		kW	6.30			8.60			11.2			14.5			23.3		
C.O.P (A7℃/W45℃)		W/W	3.60			3.52			3.28			3.23			3.52		
Heating Capacity Min./Max.(A7℃/W45℃)		kW	2.01 / 6.30			2.90 / 8.60			4.00 / 11.20			5.40 / 14.50			7.42 / 23.25		
Heating power input Min./Max.(A7℃/W45℃)		W	522 / 1750			757 / 2443			1071 / 3415			1427 / 4489			1878 / 6605		
C.O.P Min./Max.(A7℃/W45℃)		W/W	3.60 / 3.85			3.52 / 3.83			3.28 / 3.74			3.23 / 3.78			3.52 / 3.95		
Max. Cooling Capacity(A35℃/W18℃)		kW	5.70			7.04			10.0			13.6			20.1		
E.E.R (A35℃/W18℃)		W/W	3.48			3.43			3.40			3.28			3.23		
Cooling Capacity Min./Max.(A35℃/W18℃)		kW	1.82 / 5.70			2.64 / 7.04			3.81 / 10.00			5.20 / 13.60			8.14 / 20.10		
Cooling Power Input Min./Max.(A35℃/W18℃)		W	463 / 1638			677 / 2052			1003 / 2941			1402 / 4146			2171 / 6223		
E.E.R Min./Max.(A35℃/W18℃)		W/W	3.48 / 3.93			3.43 / 3.90			3.40 / 3.80			3.28 / 3.71			3.23 / 3.75		
Max. Cooling Capacity(A35℃/W7℃)		kW	4.45			5.63			7.2			10.2			17.0		
E.E.R(A35℃/W7℃)		W/W	2.87			2.66			2.62			2.60			2.56		
Cooling Capacity Min./Max.(A35℃/W7℃)		kW	1.53 / 4.45			2.10 / 5.63			3.58 / 7.20			4.52 / 10.20			7.20 / 17.00		
Cooling Power Input Min./Max.(A35℃/W7℃)		W	443 / 1551			612 / 2117			1213 / 2748			1520 / 3923			2087 / 6641		
E.E.R Min./Max.(A35℃/W7℃)		W/W	2.87 / 3.45			2.66 / 3.43			2.62 / 2.95			2.60 / 2.97			2.56 / 3.45		
Max Power Input		kW	3.00			4.00			5.00			6.30			11.00		
Max Current		A	14.35			19.14			23.92			13.29			23.50		
Wire diameter		mm²	4.0			4.0			6.0			4.0			6.0		
Fuse or circuitbreaker		A	20A			25A			32A			20A			32A		
Compressor		Brand	HIGHLY			HIGHLY			HIGHLY			HIGHLY			HIGHLY		
Refrigerant / Suggested Input		Kg	R290/0.50			R290/0.75			R290/0.90			R290/1.20			R290/1.80		
Fan	Type	/	DC			DC			DC			DC			DC		
	Quantity	/	1			1			1			2			2		
	Airflow	m³/h	2500			3000			3500			5000			11000		
	Rated Fan Speed	RPM	900			900			900			900			900		
	Rated power	W	116			116			116			116*2			250		
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger			Plate Heat Exchanger			Plate Heat Exchanger			Plate Heat Exchanger			Plate Heat Exchanger		
	Water Pressure Drop	kPa	18			20			23			25			30		
	Piping Connection	Inch	G1"			G1"			G1"			G1"			G1.2"		
Pump model		/	APM25-9-130SPWM1			APM25-9-130SPWM1			APM25-9-130SPWM1			APF25-12-130E FPWM1			APM25-12-180H PWM1		
Max Water Pump Head		m		9			9			9		12		/			
Allowable Water Flow		Min./Rated./Max.	L/S	0.19	0.31	0.52	0.27	0.43	0.72	0.36	0.57	0.96	0.45	0.73	1.21	/	
Noise Level (Sound Pressure)		dB(A)	40			42			44			46			52		
Noise Level (Sound Power)		dB(A)	54			55			58			59			68		
Moisture Resistance		/	IPX4			IPX4			IPX4			IPX4			IPX4		
Net Dimension(L×D×H)		mm	1053*475*755			1110*475*810			1110*475*960			1110*475*1355			1249*509*1558		
Carton packing Dimension(L×D×H)		mm	1115*505*910			1165*505*960			1165*505*1100			1165*505*1520			/		
Splint packing Dimension(L×D×H)		mm	1150*530*920			1200*530*970			1200*530*1120			1200*530*1510			1340*575*1713		
Net Weight		kg	90			106			120			151			220		
Carton gross Weight		kg	102			119			133			166			240		
Splint gross Weight		kg	122			142			156			188			262		
Container Loading Capacity (20/40HQ)		number	44	/	96	44	/	92	44	/	92	22	/	48			
Pdesignh (35/55℃)		kW	5.061/4.588			6.751/6.559			9.052/8.609			12.582/11.476			18.46/17.475		
SCOP (35/55℃)		kWh/kW	4.84/3.58			4.76/3.58			4.74/3.69			4.73/3.62			4.85/3.69		
SCOPon (35/55℃)		kWh/kW	4.87/3.61			4.78/3.59			4.76/3.68			4.75/3.63			4.86/3.70		
QH (35/55℃)		kWh/ye	10467/9479			13935/13560			17787/17787			25995/23709			38138/36102		
QHE (35/55℃)		kWh/ye	2162/2644			2927/3789			3947/4838			5493/6547			7857/9780		
ΠLB (35/55℃)		--	190.6%/140.4%			187.4%/140.2%			186.5%/144.1%			186.3%/141.9%			191.2%/144.7%		
Seasonal space heating energyefficiency classes: (According (EU)No 811/2013 Table 2)		--	A+++			A+++			A+++			A+++			A+++		
Seasonal space heating energyefficiency classes: (According (EU)No 811/2013 Table 1)		--	A++			A++			A++			A++			A++		
Operation Ambint Temp.(℃)		-25℃~45℃															
Operation water Temp.(℃)		10℃~70℃(DHW)															
Operation water Temp.(℃)		10℃~70℃(Heating)															
Operation water Temp.(℃)		12℃~30℃(Cooling)															
Note: (1) Heating condition: water inlet/outlet temperature: 30℃/35℃, Ambient temperature: DB 7℃/WB 6℃;																	
(2) Heating condition: water inlet/outlet temperature: 40℃/45℃, Ambient temperature: DB 7℃/WB 6℃;																	
(3) Cooling condition: water inlet/outlet temperature: 23℃/18℃, Ambient temperature: DB35℃/WB24℃;																	
(4) Cooling condition: water inlet/outlet temperature: 12℃/7℃, Ambient temperature: DB35℃/WB24℃;																	