

AS80 series (High temperature air source heat pump water heater circulation type)

Model			GRS-13I	GRS-13II	GRS-18II	GRS-26II	GRS-35II	GRS-55II	GRS-65II	GRS-78II	GRS-130II	GRS-150II
Horse Power		HP	5	5	7	10	15	20	25	30	48	60
Heating condition A20 W15~75	Heating capacity	kW	13.5	13.5	17.8	26.1	34.7	55.2	64.3	78.5	129.5	153.7
	Input power	kW	3.98	3.95	5.26	7.65	10.21	16.32	19.13	23.56	38.09	45.88
	COP	/	3.39	3.42	3.38	3.41	3.40	3.38	3.36	3.33	3.40	3.35
Heating condition A7 W40/45	Heating capacity	kW	13.00	13.00	18.00	26.00	36.00	52.00	65.00	72.00	124.00	144.00
	Input power	kW	3.71	3.70	5.17	7.41	10.32	14.86	18.57	20.69	35.63	41.50
	COP	/	3.50	3.51	3.48	3.51	3.49	3.50	3.50	3.48	3.48	3.47
Heating condition A7 W65/70	Heating capacity	kW	8.20	8.20	11.50	16.50	23.00	33.00	41.00	46.00	78.50	92.00
	Input power	kW	3.57	3.55	5.04	7.14	10.09	14.35	17.83	19.41	32.98	27.22
	COP	/	2.30	2.31	2.28	2.31	2.28	2.30	2.30	2.37	2.38	3.38
Maximum input power		kW	5.17	5.13	6.84	9.95	13.27	21.22	24.88	30.63	47.62	57.36
Maximum input current		A	23.23	9.75	13.02	19.13	24.98	40.25	46.88	57.96	90.44	108.94
Rated hot water output temp.		℃	75									
Maximum hot water output temp.		℃	80									
Rated hot water production	△t40	L/H	289.3	289.3	381.4	559.3	743.6	1182.9	1377.9	1682.1	2795.0	3440.0
	△t60	L/H	192.9	192.9	254.3	372.9	495.7	788.6	918.6	1121.4	1863.3	2293.4
Power supply			1N 220V/50Hz	3N 380V/50Hz								
Compressor	Type		Hermetic scroll type									
	Start Mode		Directly start(Soft start for option)									
	Quantity	Set	1	1	1	2	2	2	2	2	4	4
Water side heat exchanger	Type		Shell & coil(tube) heat exchanger									
	Water flow	m ³ /h	2.3	2.3	3.1	4.5	6.0	9.5	11.2	13.8	22.4	27.6
	Water Pressure Drop	kPa	≤53	<55	<57	<60	<70	<70	<72	<72	<75	<75
	Pipe size	mm	DN25	DN25	DN25	DN32	DN32	DN50	DN50	DN50	DN80	DN80
Protections			1. High pressure and low pressure protection, 2. Anti-freezing protection, 3. High temperature protection, 4. Too big of the water temperature difference for outlet and inlet protection, 5. Overload protection, 6. Lack phase protection, 7. Reverse phase protection, etc..									
Refrigerant	Type		R134a									
	Throttle Type		Electronic expansion valve									
Noise		DB(A)	≤63	≤63	≤65	≤68	≤68	≤70	≤70	≤72	≤74	≤75
Dimension		mm	750/750/1060	750/750/1060	820/695/1360	1450/755/1100	1502/750/1360	1850/1000/1950	2000/1100/1950	2347/1100/2223	2546/1306/2375	2546/1306/2375
Net Weight		kg	160	150	180	255	290	447	510	610	1250	1280

Testing conditions:
 1. Application side initial water temperature: 15℃, end temperature 75℃, max. temperature 80℃.
 2. Ambient temperature dry bulb 20℃, wet bulb 15℃.
 The above parameters are based on Refrigerant R134a, for parameters based on other refrigerant please contact us.