

Model:			WBE29G09W	WBE29G12D	WBE29G16D	
Heizen / Kühlen			kW	2-10	3-13	4-18
Leistung (A7/6°C,W30/35°C)	Heating Capacity	kW	9,2	12,1	16,2	
	Power Input	kW	2,02	2,66	3,56	
	Current	A	8,83	4,41	5,89	
	COP	W/W	4,55	4,55	4,55	
Leistung (A7/6°C,W40/45°C)	Heating Capacity	kW	9,08	12,03	16,03	
	Power Input	kW	2,51	3,30	4,98	
	COP	W/W	3,62	3,65	3,22	
Leistung (A7/6°C,W47/55°C)	Heating Capacity	kW	9,10	12,10	16,10	
	Power Input	kW	3,06	4,05	5,43	
	COP	W/W	2,97	2,99	2,97	
Leistung (A-7/-8°C,W30/35°C)	Heating Capacity	kW	8,34	10,97	15,01	
	Power Input	kW	2,89	3,73	5,23	
	COP	W/W	2,89	2,94	2,87	
Leistung (A-7/-8°C,W47/55°C)	Heating Capacity	kW	6,67	8,34	12,01	
	Power Input	kW	3,42	4,48	6,29	
	COP	W/W	1,95	1,86	1,91	
Leistung (A-15/-16°C,W30/35°C)	Heating Capacity	kW	6,25	8,22	11,31	
	Power Input	kW	2,74	3,75	5,31	
	COP	W/W	2,28	2,19	2,13	
Leistung (A-15/-16°C,W47/55°C)	Heating Capacity	kW	5,00	6,24	9,05	
	Power Input	kW	3,29	4,49	6,42	
	COP	W/W	1,52	1,39	1,41	
Leistung (A35/24°C,W23/18°C)	Cooling Capacity	kW	9,02	11,30	15,20	
	Power Input	kW	2,33	2,91	3,98	
	EER	W/W	3,87	3,88	3,82	
Leistung (A35/24°C,W12/7°C)	Cooling Capacity	kW	8,60	10,60	15,05	
	Power Input	kW	2,92	3,58	5,26	
	EER	W/W	2,95	2,96	2,86	
Nenndurchfluss	m3/h		1,6	2,08	2,8	
Nennspannung /Hz	V/Hz		220~240/50	380~415/50	380~415/50	
Maximale Leistungsaufnahme	kW		3,50	4,70	6,50	
Maximale Stromaufnahme	A		15,0	8,0	11,0	
Compressor Hersteller	/		GMCC/Rotary	GMCC/Rotary	GMCC/Rotary	
Compressor Typ	/		EDTF420D62EMT	EDTQ580D2ENT	EDTQ750D66ENT	
Compressor Oil	/		PAG-XS-601C1	PAG-XS-601C1	PAG.VG60	
Oil füllmenge	mL		830	1100	1250	
E-Ventil			Danfoss or Sanhua	Danfoss or Sanhua	Danfoss or Sanhua	
4-Wegeumschaltventil			Sanhua	Sanhua	Sanhua	
Drucksensoren			Sanhua or Match-Well	Sanhua or Match-Well	Sanhua or Match-Well	
Kältemittel	/		R290	R290	R290	
Füllmenge Kältemittel	kg		0,75	1,4	1,7	
Luft Volumen	m3/h		4000	4500	8000	
Hersteller Lüftermotor (DC fan)			LT/RD85HE	LT/RD85HE	LT/RD85HE	
Abtaung	/		4 way valve	4 way valve	4 way valve	
Schutzklasse	/		IPX4	IPX4	IPX4	
Schalldruck (1m/5m)	dB(A)		53/39	54/40	56/42	
Max Wasseraustritt	°C		75	75	75	
Durchmesser Wasseranschluß	/		DN 25 (G1")	DN 25 (G1")	DN 25 (G1")	
Sicherheitsventil	mm		DN15	DN15	DN15	
Interner druckverlust bei Nenndurchfluss	kPa		40	50	50	
Min/Max Wasserdruck Heizung	bar		0.5/3.0	0.5/3.0	0.5/3.0	
Absicherung (PCB)	A		15	15	15	
Min/Max Außenlufttemperatur (heating mode)	°C		-20/45	-20/45	-20/45	
Min/Max Außenlufttemperatur (cooling mode)	°C		15/45	15/45	15/45	
Geräteabmessungen (L/W/H)	mm		1106/450/835	1106/450/835	1106/450/1603	
Abmessung m. Verpackung (L/W/H)	mm		1150/455/913	1150/455/913	1150/455/1671	
Netto Gewicht	kg		80	90	160	
Gewicht mit Verpackung	kg		90	100	175	

Performance and Curves - Monobloc Heat Pump

R290 Monobloc

Performance Table for Heating Operation

Maximum Heating Capacity

WBE29G09W

Outdoor Temperature	-25°C DB	-20°C DB	-15°C DB	-10°C DB	-7°C DB	0°C DB	5°C DB	7°C DB	15°C DB	20°C DB	25°C DB	30°C DB	35°C DB	40°C DB	45°C DB
Outlet water temp.30°C	5.80	6.76	7.25	7.73	8.01	8.69	9.18	9.44	10.24	10.63	11.01	11.40	11.79	12.17	12.56
Outlet water temp.35°C	5.52	6.44	6.90	7.22	7.58	8.28	8.74	8.99	9.75	10.12	10.49	10.86	11.22	11.59	11.96
Outlet water temp.40°C	5.24	6.12	6.56	6.99	7.25	7.87	8.30	8.54	9.26	9.61	9.96	10.31	10.66	11.01	11.36
Outlet water temp.45°C	4.97	5.80	6.21	6.62	6.87	7.45	7.87	8.09	8.78	9.11	9.44	9.77	10.10	10.43	10.76
Outlet water temp.50°C	4.69	5.47	5.87	6.26	6.49	7.04	7.43	7.64	8.29	8.60	8.91	9.23	9.54	9.85	10.17
Outlet water temp.55°C	4.42	5.15	5.52	5.85	6.09	6.62	6.99	7.19	7.80	8.10	8.39	8.68	8.98	9.27	9.57
Outlet water temp.60°C	4.14	4.83	5.18	5.52	5.72	6.21	6.56	6.74	7.31	7.59	7.87	8.14	8.42	8.69	8.97
Outlet water temp.65°C	3.86	4.51	4.83	5.15	5.34	5.80	6.12	6.29	6.83	7.08	7.34	7.60	7.86	8.11	8.37
Outlet water temp.70°C	-	-	4.49	4.78	4.96	5.38	5.68	5.84	6.34	6.58	6.82	7.06	7.30	7.53	7.77
Outlet water temp.75°C	-	-	4.14	4.42	4.58	4.97	5.24	5.39	5.85	6.07	6.29	6.51	6.73	6.96	7.18

WBE29G12D

Temperature	-25°C DB	-20°C DB	-15°C DB	-10°C DB	-7°C DB	0°C DB	5°C DB	7°C DB	15°C DB	20°C DB	25°C DB	30°C DB	35°C DB	40°C DB	45°C DB
Outlet water temp.30°C	7.48	8.72	9.35	9.97	10.34	11.22	11.84	12.19	13.21	13.71	14.21	14.71	15.20	15.70	16.20
Outlet water temp.35°C	7.26	8.47	9.08	9.78	10.08	10.89	11.50	11.71	12.83	13.31	13.79	14.28	14.76	15.25	15.73
Outlet water temp.40°C	7.04	8.22	8.80	9.39	9.74	10.56	11.15	11.37	12.44	12.91	13.38	13.85	14.32	14.79	15.26
Outlet water temp.45°C	6.82	7.96	8.53	9.10	9.44	10.24	10.81	11.03	12.06	12.51	12.97	13.42	13.88	14.33	14.79
Outlet water temp.50°C	6.61	7.71	8.26	8.81	9.13	9.91	10.46	10.69	11.67	12.11	12.55	12.99	13.43	13.87	14.31
Outlet water temp.55°C	6.39	7.45	7.99	8.50	8.83	9.58	10.12	10.35	11.29	11.71	12.14	12.56	12.99	13.42	13.84
Outlet water temp.60°C	6.17	7.20	7.71	8.23	8.53	9.26	9.77	10.01	10.90	11.31	11.72	12.14	12.55	12.96	13.37
Outlet water temp.65°C	5.95	6.95	7.44	7.94	8.23	8.93	9.43	9.67	10.52	10.91	11.31	11.71	12.10	12.50	12.90
Outlet water temp.70°C	-	-	7.17	7.65	7.93	8.60	9.08	9.34	10.13	10.51	10.90	11.28	11.66	12.04	12.43
Outlet water temp.75°C	-	-	6.90	7.36	7.63	8.28	8.74	9.00	9.75	10.12	10.48	10.85	11.22	11.59	11.95

WBE29G16D

Outdoor Temperature	-25°C DB	-20°C DB	-15°C DB	-10°C DB	-7°C DB	0°C DB	5°C DB	7°C DB	15°C DB	20°C DB	25°C DB	30°C DB	35°C DB	40°C DB	45°C DB
Outlet water temp.30°C	10.01	11.68	12.68	13.68	14.08	15.02	15.85	16.32	17.69	18.35	19.02	19.69	20.36	21.02	21.69
Outlet water temp.35°C	9.72	11.34	12.31	13.29	13.67	14.58	15.39	15.58	17.17	17.82	18.47	19.12	19.76	20.41	21.06
Outlet water temp.40°C	9.43	11.00	11.94	12.89	13.26	14.14	14.93	15.12	16.66	17.29	17.91	18.54	19.17	19.80	20.43
Outlet water temp.45°C	9.14	10.66	11.57	12.49	12.85	13.71	14.47	14.66	16.14	16.75	17.36	17.97	18.58	19.19	19.80
Outlet water temp.50°C	8.85	10.32	11.20	12.09	12.44	13.27	14.00	14.20	15.63	16.22	16.81	17.40	17.99	18.57	19.16
Outlet water temp.55°C	8.55	9.98	10.83	11.81	12.08	12.83	13.54	13.74	15.11	15.68	16.25	16.82	17.39	17.96	18.53
Outlet water temp.60°C	8.26	9.64	10.47	11.29	11.62	12.39	13.08	13.28	14.60	15.15	15.70	16.25	16.80	17.35	17.90
Outlet water temp.65°C	7.97	9.30	10.10	10.89	11.21	11.96	12.62	12.82	14.08	14.61	15.14	15.68	16.21	16.74	17.27
Outlet water temp.70°C	-	-	9.73	10.49	10.80	11.52	12.16	12.36	13.57	14.08	14.59	15.10	15.61	16.13	16.64
Outlet water temp.75°C	-	-	9.36	10.10	10.39	11.08	11.70	11.91	13.05	13.54	14.04	14.53	15.02	15.51	16.01

Note

1. DB : Dry Bulb Temperature (°C)
 2. Direct interpolation is permissible. Do not extrapolate.
 3. Measuring procedure follows EN-14511.
- Rated values are based on standard conditions and it can be found on specifications.
 - Above table values may not be matched according to installation condition. Except for rated value, the performance is not guaranteed.
 - In accordance with the test standard (or nations), the rating will vary slightly.
 - 4. The shaded areas are not guaranteed continuous operation.

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