

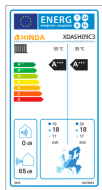


XDASH09C3

HEAT PUMP

Product Sheet ver. 2024





Product Description

R290 Air to Water Heat Pumps are environmentally friendly. Propane, which is the primary component of R290, is a natural refrigerant that has a low GWP less to 3, to meet the F-gas regulation: with a GWP of at least 150 starting in 2027, and a complete phase out in 2032. Also R290 air to water heat pumps could reach A+++ and the water outlet could be up to 80°C.

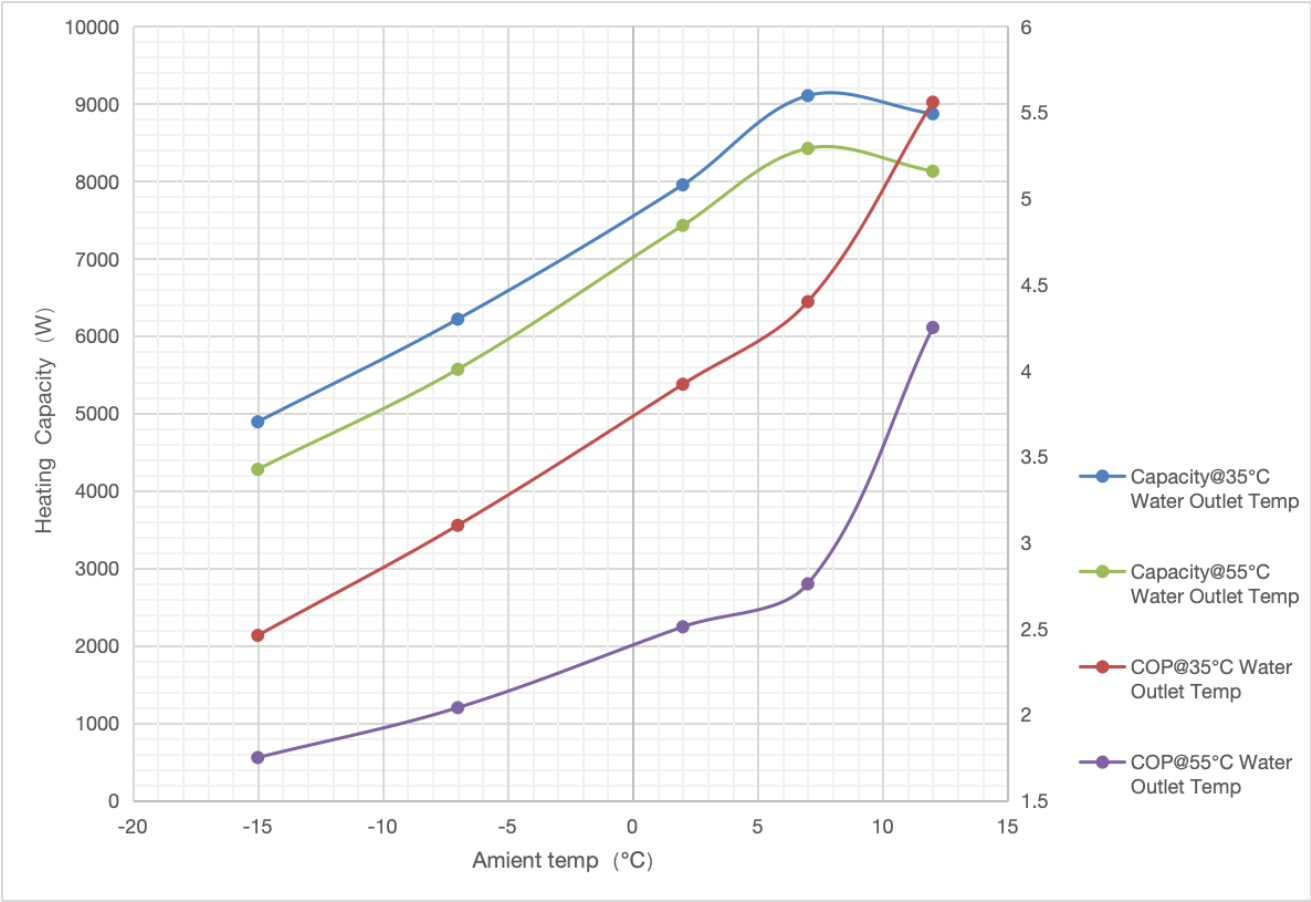
Product Features

- Date and Time Setting
- WiFi Control
- LED display
- Anti-Freezing
- Electric Heating
- Intelligent Deforest Mode
- Domestic Hot Water Temperature Setting
- DC Inverter Technology
- Low Noise Mode
- Smart Control System
- Weather-Dependent Curve
- Safe Structure Inner Design
- Energy Saving Mode
- Timely Water Supply
- Failure Diagnose
- Fan Control board
- Filter PCB
- Drive PCB
- Main Controller PCB
- Finned Heat Exchanger
- Fan Blower
- Fan Motor
- Reactance
- Four-Way Valve
- Micro Bubble Valve
- Expansion Relief Valve
- Water Pump
- Water Flow Switch
- Compressor
- Plate Heat Exchanger
- Electronic Expansion Valve
- Filter
- Gas Liquid Separator
- Acoustic Cover
- Compressor Heater
- Bottom Tray Heater
- Discharge Temp. Sensor
- Suction Temp. Sensor
- Evaporating Coil Temp. Sensor
- Ambient Temp. Sensor
- Water Inlet Temp. Sensor
- Water Outlet Temp. Sensor
- Condensing Coil Temp. Sensor
- High Pressure Sensor
- Low Pressure Sensor
- Fan Guard

Heating Performance Data - XDASH09C3

Average Climate/Low Temperature[35°C]				
Operating Conditions		Capacity	P	COP
1	A7/30-35	7.033	1.427	4.93
2	A2/W35	6.732	1.654	4.07
3	A-15/W35	4.893	1.986	2.46
A	A-7/W34	6.578	1.999	3.29
B	A2/W30	4.182	0.772	5.42
C	A7/W27	2.680	0.389	6.89
D	A12/W24	2.727	0.269	10.13
E	A-10/W35	5.663	1.992	2.84
F	A-7/W34	6.578	1.999	3.29
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825: 2022				
SCOPon			5.4	
SCOPnet			5.02	
SCOP			5.02	
η [%]			197.8	
Label			A+++	
Qh [kwh]			14669	
Pdesignh [kw]			7.1	
Tbivalent [°C]			-7	
Average Climate/Low Temperature[55°C]				
Operating Conditions		Capacity	P	COP
1	A7/W47-55	7.049	2.274	3.1
2	A2/W55	6.960	2.740	2.54
3	A-15/W55	4.279	2.440	1.75
A	A-7/W52	6.555	2.733	2.4
B	A2/W42	4.138	1.041	3.98
C	A7/W36	2.641	0.503	5.52
D	A12/W30	2.491	0.322	7.74
E	A-10/W55	5.568	2.639	2.11
F	A-7/W52	6.555	2.733	2.4
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825: 2022				
SCOPon			4.03	
SCOPnet			3.81	
SCOP			3.81	
η [%]			149.3	
Label			A++	
Qh [kwh]			14669	
Pdesignh [kw]			7.1	
Tbivalent [°C]			-7	

Capacity Efficiency Curve - XDASH09C3



XDASH09C3 - Capacity Efficiency Curve

	Capacity@35°C Water Outlet Temp	COP@35°C Water Outlet Temp	Capacity@55°C Water Outlet Temp	COP@55°C Water Outlet Temp
-15	4893	2.46	4279	1.75
-7	6219	3.1	5571	2.04
2	7954	3.92	7430	2.51
7	9106	4.4	8424	2.76
12	8872	5.56	8130	4.25

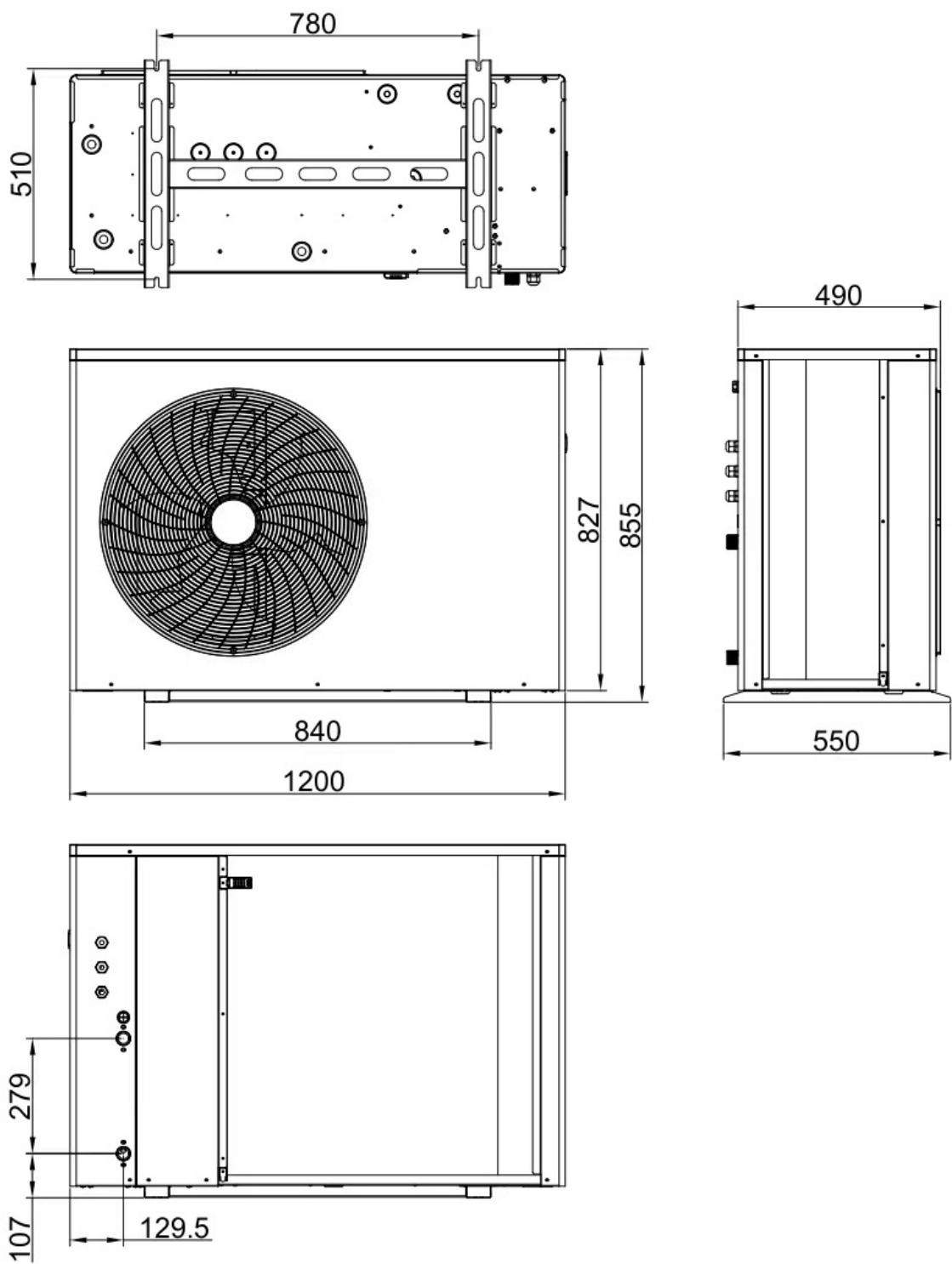
Test Report of XDASH09C3 (R290)

Test report of XDASH09C3 (R290) - Heating (Defrost included) 35°C SCOP:5.02 kWh/kWh Pdesignih:7.1kW							
Amient temp(°C)	Water OutletTemp(°C)	Compressor Speed (Hz)	Heating Capacity(W)	Input Power (W)	COP(W/W)	I(A)	Note
DB12/WB11	55.0	79	8130	1913	4.25	8.32	No Ice
		67	7239	1649	4.39	7.17	
		55	5961	1324	4.50	5.76	
		43	4636	1009	4.60	4.39	
	45.0	79	8480	1782	4.76	7.75	
		67	7367	1468	5.02	6.38	
		55	6108	1164	5.25	5.06	
		43	4985	912	5.47	3.97	
	35.0	79	8872	1596	5.56	6.94	
		67	7566	1316	5.75	5.72	
		55	6304	1062	5.94	4.62	
		43	5162	845	6.11	3.67	
	24.0	30	3964	618	6.42	2.68	
DB7/WB6	55.0	90	8424	3057	2.76	13.29	No Ice
		85	8089	2664	3.04	11.58	
		78	7049	2274	3.10	9.89	
		72	6748	2135	3.16	9.28	
		61	5729	1782	3.21	7.75	
		49	4384	1280	3.43	5.57	
	45.0	90	8930	2721	3.28	11.83	
		85	8435	2277	3.70	9.90	
		72	7139	1856	3.85	8.07	
		61	6070	1423	4.27	6.19	
		49	4768	1048	4.55	4.56	
		30	3556	734	4.84	3.19	
	35.0	90	9106	2069	4.40	9.00	
		85	8611	1883	4.57	8.19	
		72	7982	1682	4.75	7.31	
		69	7033	1428	4.93	6.21	
		61	6193	1207	5.13	5.25	
		49	4399	815	5.40	3.54	
		30	2945	600	4.91	2.61	
DB2/WB1	55.0	90	7430	2960	2.51	12.87	Ice and defrosted
		85	6960	2740	2.54	11.91	
		72	5888	2186	2.69	9.50	
		61	4898	1719	2.85	7.47	Small ice
		49	3773	1238	3.05	5.38	
	45.0	90	7738	2204	3.51	9.58	Ice and defrosted
		85	7310	2041	3.58	8.87	
		72	6132	1685	3.64	7.33	
		61	5224	1411	3.70	6.13	Small ice
		49	4156	1088	3.82	4.73	
	35.0	90	7954	2030	3.92	8.83	Ice and defrosted
		85	7412	1862	3.98	8.10	
		72	6732	1654	4.07	7.19	
		61	5144	1194	4.31	5.19	
		49	3678	798	4.61	3.47	Small ice
	30.0	43	3843	780	4.93	3.39	Small ice

Test Report of XDASH09C3 (R290)

Test report of XDASH09C3 (R290) - Heating (Defrost included) 35°C SCOP:5.02 kWh/kWh Pdesigih:7.1kW							
Amient temp(°C)	Water OutletTemp(°C)	Compressor Speed (Hz)	Heating Capacity(W)	Input Power (W)	COP(W/W)	I(A)	Note
DB-7/WB-8	55.0	90	5571	2729	2.04	11.87	No Ice
		85	5196	2542	2.04	11.05	
		72	4303	2067	2.08	8.99	
		61	3566	1722	2.07	7.49	
		49	2536	1397	1.81	6.08	
	45.0	90	5821	2439	2.39	10.60	
		85	5449	2243	2.43	9.75	
		72	4553	1820	2.50	7.91	
		61	3810	1497	2.54	6.51	
		49	2973	1201	2.48	5.22	
	35.0	90	6219	2006	3.10	8.72	
		85	5887	1844	3.19	8.02	
		72	4912	1506	3.26	6.55	
		61	4063	1182	3.44	5.14	
		49	3189	765	4.17	3.33	
	34.0	91	6319	1997	3.16	8.68	
DB-10/WB-11	35.0	95	6115	2160	2.83	9.39	No Ice
DB-15/WB-16	55.0	90	4279	2440	1.75	10.61	No Ice
		85	4006	2281	1.76	9.92	
		72	3260	1910	1.71	8.30	
		61	2694	1595	1.69	6.94	
		49	2017	1281	1.57	5.57	
	45.0	90	4482	2195	2.04	9.54	
		85	4229	2037	2.08	8.86	
		72	3505	1688	2.08	7.34	
		61	2905	1401	2.07	6.09	
		49	2159	1129	1.91	4.91	
	35.0	90	4893	1986	2.46	8.63	
		85	4669	1816	2.57	7.89	
		72	3944	1499	2.63	6.52	
		61	3165	1164	2.72	5.06	
		49	2168	742	2.92	3.23	

XDASH09C3





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