

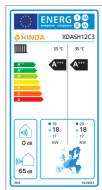


XDASH12C3

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.

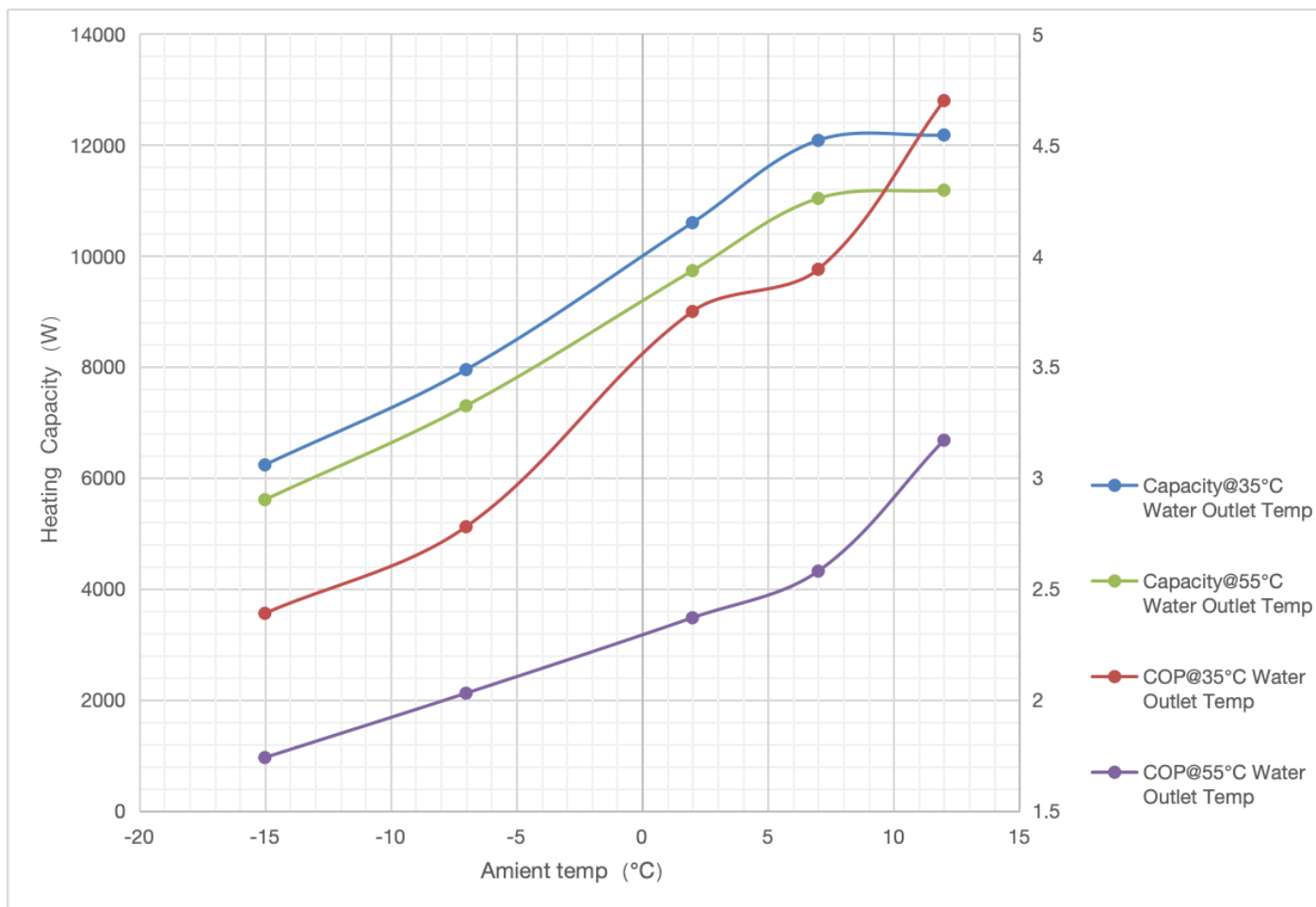
Product Features

- 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 - XDASH12C3

Average Climate/Low Temperature[35°C]				
Operating Conditions		Capacity	P	COP
1	A7/30-35	9.027	1.997	4.52
2	A2/W35	8.443	2.144	3.94
3	A-15/W35	6.235	2.608	2.39
A	A-7/W34	8.146	2.767	2.95
B	A2/W30	5.041	0.982	5.13
C	A7/W27	3.404	0.494	6.89
D	A12/W24	4.500	0.447	10.07
E	A-10/W35	7.936	3.195	2.48
F	A-7/W34	8.146	2.767	2.95
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825: 2022				
SCOPon			5.14	
SCOPnet			4.91	
SCOP			4.91	
η [%]			193.4	
Label			A+++	
Qh [kwh]			18801	
Pdesignh [kw]			9.1	
Tbivalent [°C]			-7	
Average Climate/Low Temperature[55°C]				
Operating Conditions		Capacity	P	COP
1	A7/W47-55	10.61	3.89	2.73
2	A2/W55	7.714	3.185	2.42
3	A-15/W55	5.607	3.218	1.74
A	A-7/W52	7.475	3.622	2.06
B	A2/W42	4.842	1.345	3.6
C	A7/W36	3.331	0.652	5.11
D	A12/W30	4.294	0.574	7.49
E	A-10/W55	6.882	3.753	1.83
F	A-7/W52	7.475	3.622	2.06
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825: 2022				
SCOPon			3.67	
SCOPnet			3.55	
SCOP			3.55	
η [%]			139	
Label			A++	
Qh [kwh]			18801	
Pdesignh [kw]			9.1	
Tbivalent [°C]			-7	

Capacity Efficiency Curve - XDASH12C3



XDASH12C3 - 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	6235	2.39	5607	1.74
-7	7951	2.78	7300	2.03
2	10599	3.75	9735	2.37
7	12084	3.94	11037	2.58
12	12180	4.7	11186	3.17

Test Report of XDASH12C3 (R290)

Test report of XDSH12C3 (R290) - Heating (Defrost included) 35°C SCOP:4.91 kWh/kWh Pdesigh:9.1kW							
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	11186	3533	3.17	15.36	NO Ice
		67	9485	2916	3.25	12.68	
		55	7811	2361	3.31	10.27	
		43	6025	1829	3.29	7.95	
	45.0	79	11413	3021	3.78	13.14	
		67	9653	2460	3.92	10.70	
		55	8004	1953	4.10	8.49	
		43	6532	1535	4.26	6.67	
	35.0	79	12180	2592	4.70	11.27	
		67	10421	2101	4.96	9.13	
		55	8598	1622	5.30	7.05	
		43	6764	1303	5.19	5.66	
	24.0	30	5195	625	8.32	2.72	
DB7/WB6	55.0	90	11037	4284	2.58	18.62	
		85	10600	3833	2.77	16.67	
		72	8842	3120	2.83	13.57	
		61	7507	2591	2.90	11.26	
		49	5745	1967	2.92	8.55	
	45.0	90	11713	3550	3.30	15.44	
		85	11053	3289	3.36	14.30	
		72	9354	2676	3.50	11.63	
		61	7954	2200	3.62	9.56	
		49	6247	1677	3.73	7.29	
	35.0	90	12084	3064	3.94	13.32	
		88	11829	2935	4.03	12.76	
		85	11097	2662	4.17	11.57	
		72	10372	2344	4.42	10.19	
		64	9027	1997	4.52	8.68	
		61	8853	1883	4.70	8.19	
		49	7118	1450	4.91	6.31	
	27.0	30	4313	681	6.33	2.96	
DB2/WB1	55.0	90	9735	4105	2.37	17.85	Ice and defrosted
		85	9119	3729	2.45	16.21	
		72	7714	3185	2.42	13.85	
		61	6418	2624	2.45	11.41	Small ice
		49	4944	2063	2.40	8.97	
	45.0	90	10139	3681	2.75	16.00	Ice and dofrosted
		85	9578	3378	2.84	14.69	
		72	7988	2780	2.87	12.09	
		61	6761	2323	2.91	10.10	Small ice
		49	5217	1793	2.91	7.80	
	35.0	90	10599	2829	3.75	12.30	Ice and defrosted
		85	9990	2628	3.80	11.43	
		72	8443	2144	3.94	9.32	
		61	7148	1746	4.09	7.59	
		49	5693	1399	4.07	6.08	
	30.0	43	5360	1151	4.66	5.01	Small ice

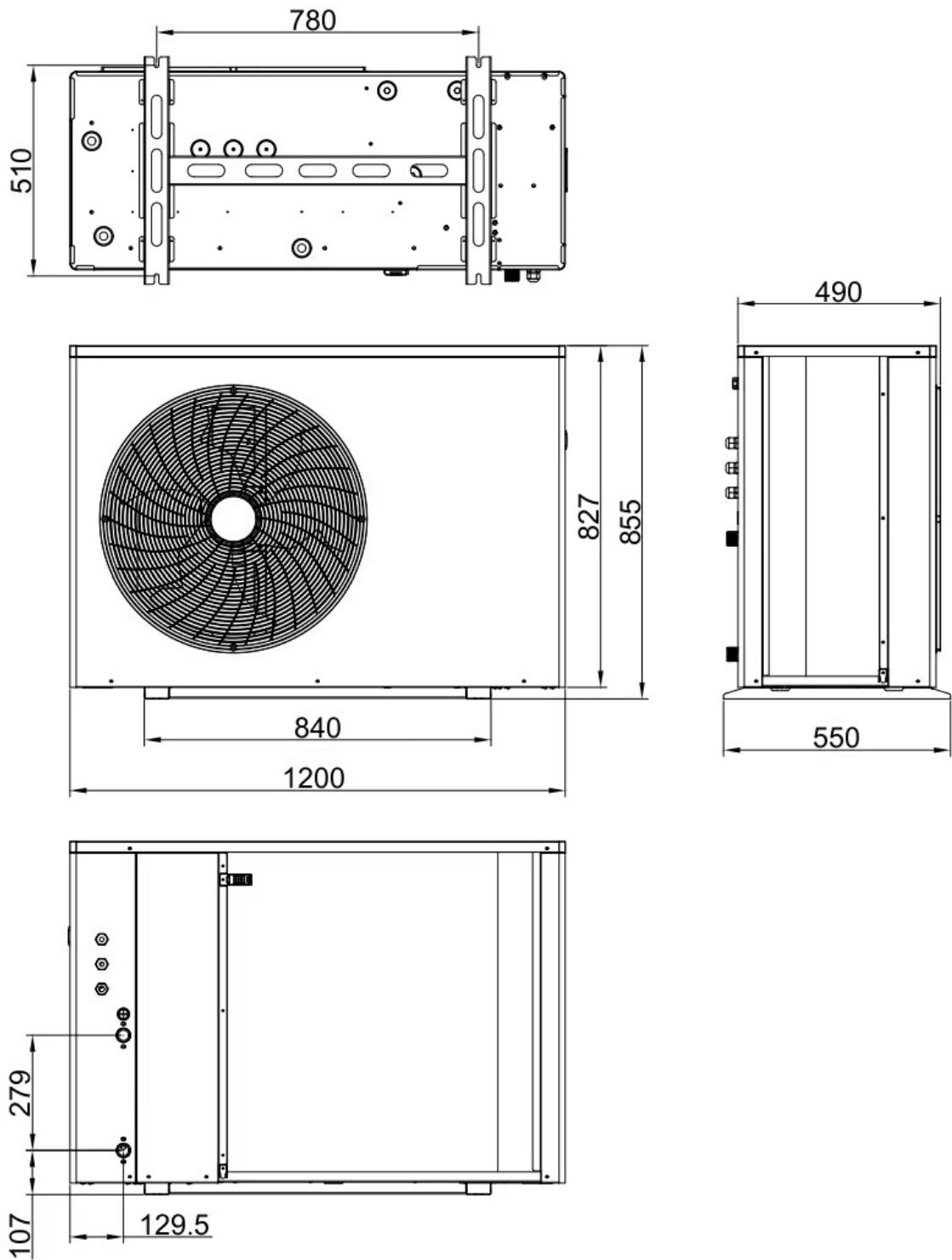
Test Report of XDASH12C3 (R290)

Test report of XDASH12C3 (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	7300	3600	2.03	15.65	NO Ice
		85	6808	3353	2.03	14.58	
		72	5639	2725	2.07	11.85	
		61	4672	2271	2.06	9.87	
	45.0	49	3323	1842	1.80	8.01	
		90	7627	3217	2.37	13.98	
		85	7140	2959	2.41	12.87	
		72	5966	2400	2.49	10.43	
		61	4993	1975	2.53	8.59	
		49	3895	1584	2.46	6.89	
	35.0	90	7951	2865	2.78	12.46	
		85	7491	2635	2.84	11.46	
		72	6331	2155	2.94	9.37	
		61	5340	1740	3.07	7.57	
		49	4172	1334	3.13	5.80	
	34.0	90	8020	2803	2.86	12.19	
DB-10/WB-11	35.0	90	7314	2788	2.62	12.12	NO Ice
DB-15/WB-16	55	90	5607	3218	1.74	13.99	
		85	5249	3008	1.75	13.08	
		72	4271	2519	1.70	10.95	
		61	3530	2104	1.68	9.15	
		49	2642	1690	1.56	7.35	
	45.0	90	5872	2895	2.03	12.59	
		85	5542	2687	2.06	11.68	
		72	4593	2226	2.06	9.68	
		61	3806	1847	2.06	8.03	
		49	2829	1489	1.90	6.47	
	35.0	90	6235	2608	2.39	11.34	
		85	5864	2395	2.45	10.41	
		72	4934	2004	2.46	8.71	
		61	4105	1639	2.50	7.13	
		49	3094	1287	2.40	5.60	

Test Report of XDASH12C3 (R290) - Cooling

Test report of XDASH12C3 (R290) -Cooling						
Amient temp(°C)	Water Outlet Temp(°C)	Compressor Speed(Hz)	Cooling Capacity(W)	Input Power(with waterpump) (W)	EER (with water pump) (W/W)	Note
DB40/WB26	18.0	Frequency limiting	/	/	/	
		61	7981.675	2493.81	3.20	
		56	7337.975	2245.32	3.27	
		47	6154.1	1797.84	3.42	
		36	4414.675	1335.51	3.31	
DB35/WB24	18.0	74	10140.325	2972.97	3.41	
		66	9257.8	2530.44	3.66	
		56	7868.925	2034.45	3.87	
		47	6389.85	1616.67	3.95	
		36	4508.975	1173.15	3.84	
DB35/WB24	7.0	74	7225.225	2763.09	2.61	
		66	6311.95	2376	2.66	
		56	5091.175	1941.39	2.62	
		47	4122.55	1580.04	2.61	
		36	2855.65	1182.06	2.42	

XDASH12C3





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