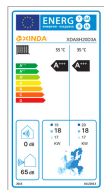


XDASH20D3

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.

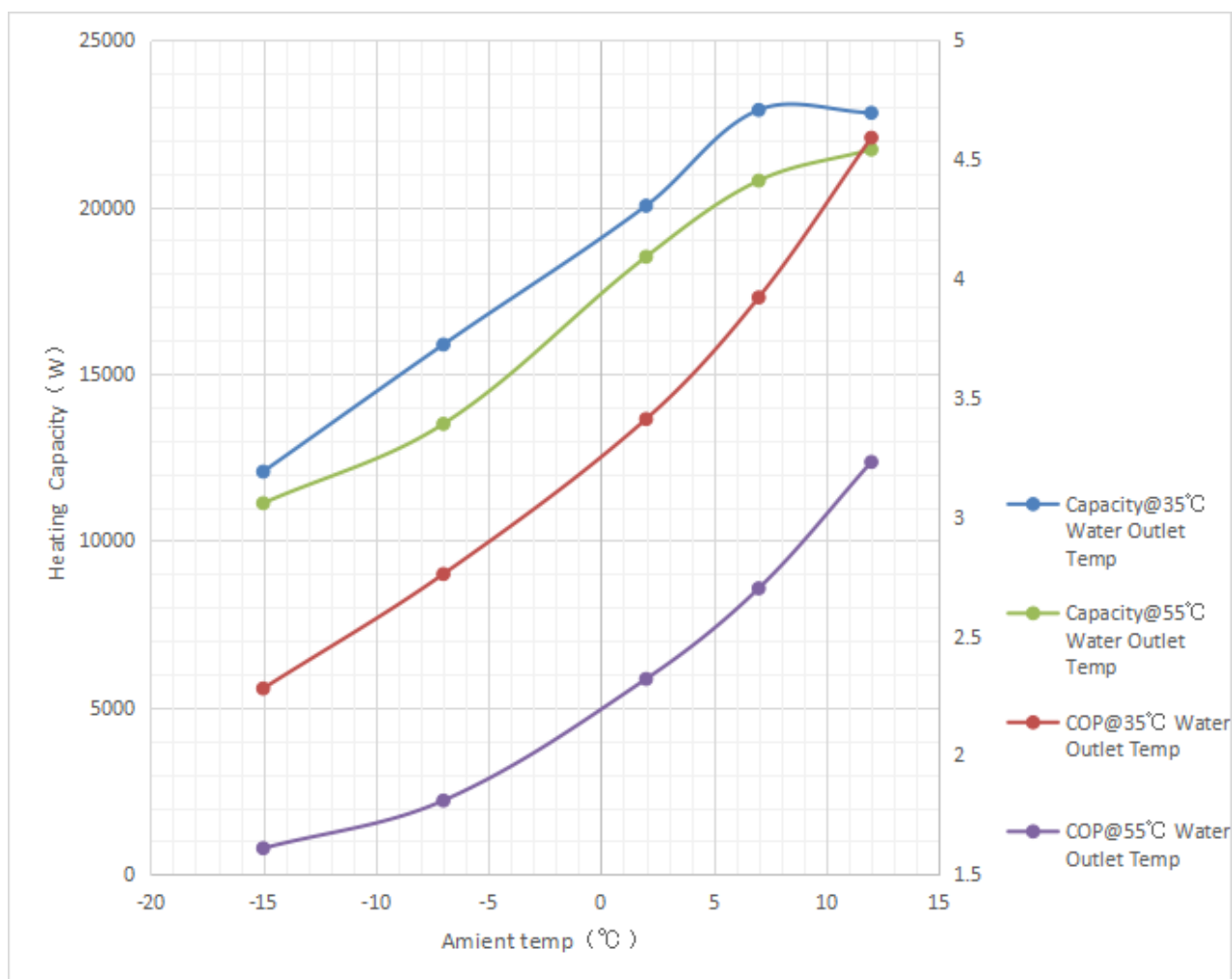
Product Features

- 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 - XDASH20D3

Average Climate/Low Temperature[35°C]				
Operating Conditions		Capacity	P	COP
1	A7/30-35	17.35	3.97	4.37
2	A2/W35	15.03	4.10	3.66
3	A-15/W35	12.07	5.29	2.28
A	A-7/W34	16.447	5.5	2.99
B	A2/W30	10.4	1.97	5.27
C	A7/W27	6.59	0.876	7.53
D	A12/W24	5.07	0.453	11.2
E	A-10/W35	16.067	6.166	2.61
F	A-7/W34	16.447	5.5	2.99
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825: 2022				
SCOPon			5.41	
SCOPnet			5.24	
SCOP			5.24	
η [%]			206.4	
Label			A+++	
Qh [kwh]			37188	
Pdesignh [kw]			18	
Tbivalent [°C]			-7	
Average Climate/Low Temperature[55°C]				
Operating Conditions		Capacity	P	COP
1	A7/W47-55	17.34	5.96	2.91
2	A2/W55	13.66	5.4	2.53
3	A-15/W55	11.12	6.92	1.61
A	A-7/W52	15.89	7.34	2.17
B	A2/W42	10.06	2.64	3.87
C	A7/W36	6.57	1.2	5.56
D	A12/W30	6.47	0.76	8.49
E	A-10/W55	14.04	5.8	1.85
F	A-7/W52	15.89	7.34	2.17
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825: 2022				
SCOPon			3.96	
SCOPnet			3.86	
SCOP			3.86	
η [%]			151.6	
Label			A+++	
Qh [kwh]			37188	
Pdesignh [kw]			18	
Tbivalent [°C]			-7	

Capacity Efficiency Curve - XDASH20D3



XDASH20D3 - 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	12067	2.28	11122	1.61
-7	15875	2.76	13498	1.81
2	20033	3.41	18504	2.32
7	22902	3.92	20785	2.7
12	22816	4.59	21717	3.23

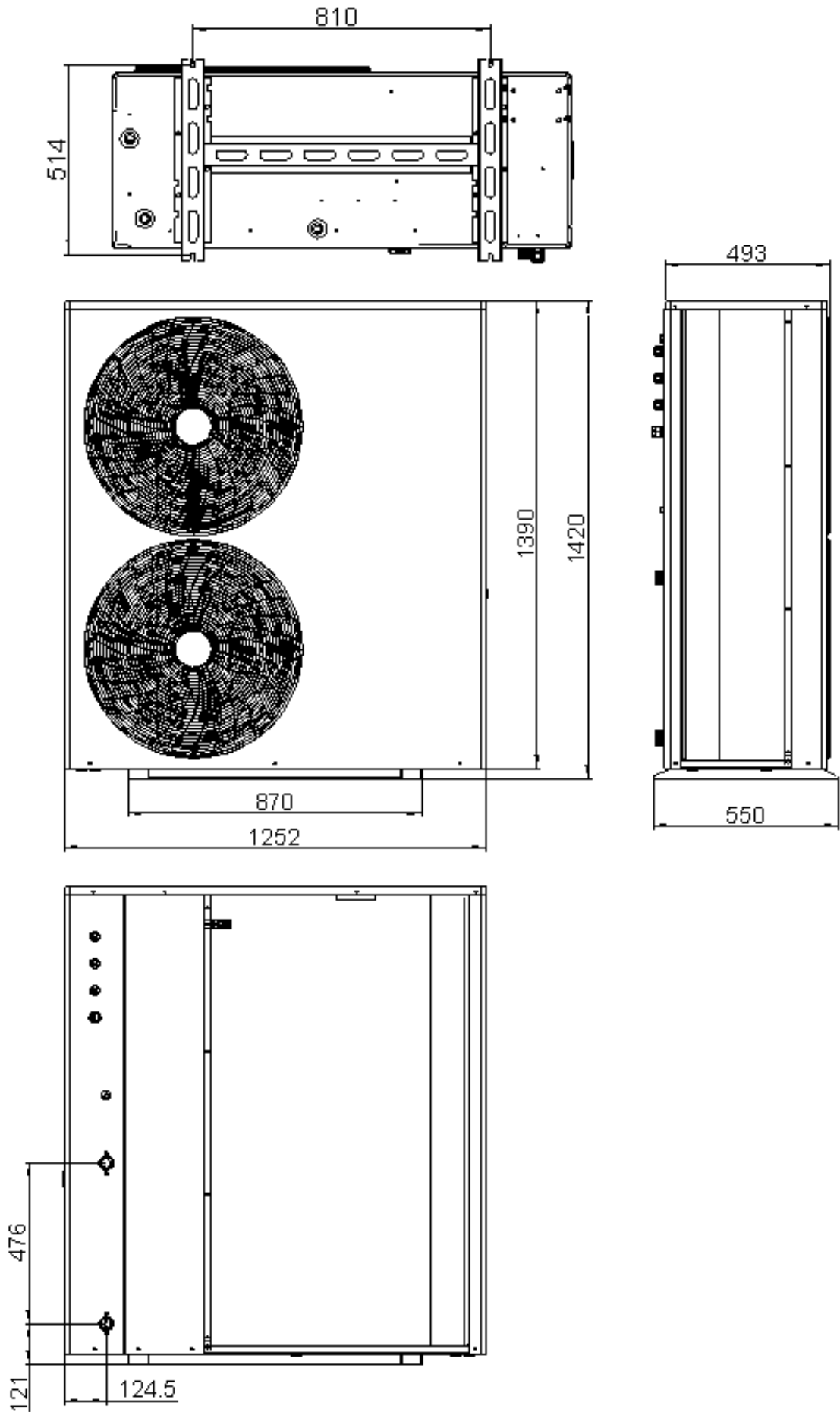
Test Report of XDASH20D3 (R290)

Test report of XDASH20D3(R290)-Heating (Defrost included) 35°C SCOP:5.24kWh/kWh Pdesignh:18kW							
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	21717	6723	3.23	11.42	
		67	18345	5550	3.32	9.42	
		55	15071	4409	3.42	7.49	
		43	11523	3346	3.44	5.68	
	45.0	79	22287	5812	3.83	9.87	
		67	19020	4665	4.08	7.92	
		55	15516	3652	4.25	6.20	
		43	12024	2714	4.43	4.61	
	35.0	79	22816	4973	4.59	8.44	
		67	19409	3978	4.88	6.76	
		55	16036	2950	5.44	5.01	
		43	12557	2160	5.81	3.67	
	24.0	30	9266	1092	8.49	1.85	
DB7/WB6	55.0	90	20785	7689	2.70	13.06	NO Ice
		79	17840	6492	2.75	11.02	
		67	15586	5494	2.84	9.33	
		55	12794	4341	2.95	7.37	
		43	9919	3300	3.01	5.60	
	45.0	90	21977	6795	3.23	11.54	
		79	19428	5712	3.40	9.70	
		67	16451	4609	3.57	7.83	
		55	13306	3584	3.71	6.09	
		43	10444	2748	3.80	4.67	
	35.0	90	22902	5844	3.92	9.92	
		79	20085	4830	4.16	8.20	
		67	17107	3860	4.43	6.55	
		55	14038	3054	4.60	5.19	
		43	11015	2253	4.89	3.83	
		30	7700	1536	5.01	2.61	
	27.0	30	8085	1240	6.52	2.11	
	DB2/WB1	55.0	90	18504	7986	2.32	
79			16078	6549	2.46	11.12	
67			13658	5403	2.53	9.18	
55			11305	4419	2.56	7.50	
43			8524	3336	2.56	5.66	
45.0		90	19925	6911	2.88	11.74	Ice and dofrosted
		79	16752	5751	2.91	9.77	
		67	14655	4676	3.13	7.94	
		55	11614	3657	3.18	6.21	
		43	8970	2772	3.24	4.71	
35.0		90	20033	5876	3.41	9.98	Ice and defrosted
		79	17867	5004	3.57	8.50	
		67	15029	4101	3.66	6.96	
		55	11868	3154	3.76	5.36	
		43	9534	2337	4.08	3.97	
30.0		40	9346	1990	4.70	3.38	Small ice

Test Report of XDASH20D3 (R290)

Test report of XDASH20D3(R290)-Heating (Defrost included) 35°C SCOP:5.24kWh/kWh Pdesignh:18kW							
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	13498	7471	1.81	12.69	NO Ice
		79	12798	6287	2.04	10.68	
		67	10937	5281	2.07	8.97	
		55	8252	4037	2.04	6.86	
		43	6250	3257	1.92	5.53	
	45.0	90	15820	6706	2.36	11.39	
		79	13482	5524	2.44	9.38	
		67	11414	4589	2.49	7.79	
		55	9141	3542	2.58	6.01	
		43	7264	2776	2.62	4.71	
	35.0	90	15875	5757	2.76	9.78	
		79	13684	4733	2.89	8.04	
		67	11976	4010	2.99	6.81	
		55	9384	3053	3.07	5.18	
		43	7283	2383	3.06	4.05	
	34.0	90	16072	5698	2.82	9.68	
DB-10/WB-11	35.3	90	14778	5751	2.57	9.77	NO Ice
DB-15/WB-16	55	90	11122	6923	1.61	11.76	
		79	9383	5897	1.59	10.01	
		67	7919	4923	1.61	8.36	
		55	6210	3983	1.56	6.76	
		43	4787	3151	1.52	5.35	
	45.0	90	11231	6019	1.87	10.22	
		79	10365	5089	2.04	8.64	
		67	8397	4225	1.99	7.17	
		55	6750	3465	1.95	5.88	
		43	5062	2705	1.87	4.59	
	35.0	90	12067	5293	2.28	8.99	
		79	10885	4575	2.38	7.77	
		67	9212	3701	2.49	6.28	
		55	7225	2946	2.45	5.00	
		43	5772	2288	2.52	3.89	

XDASH20D3





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