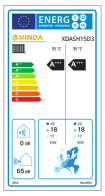
EXINDA

XDASH15D3

HEAT PUMP

Product Sheet ver. 2024

www.exindagroup.com



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℃.

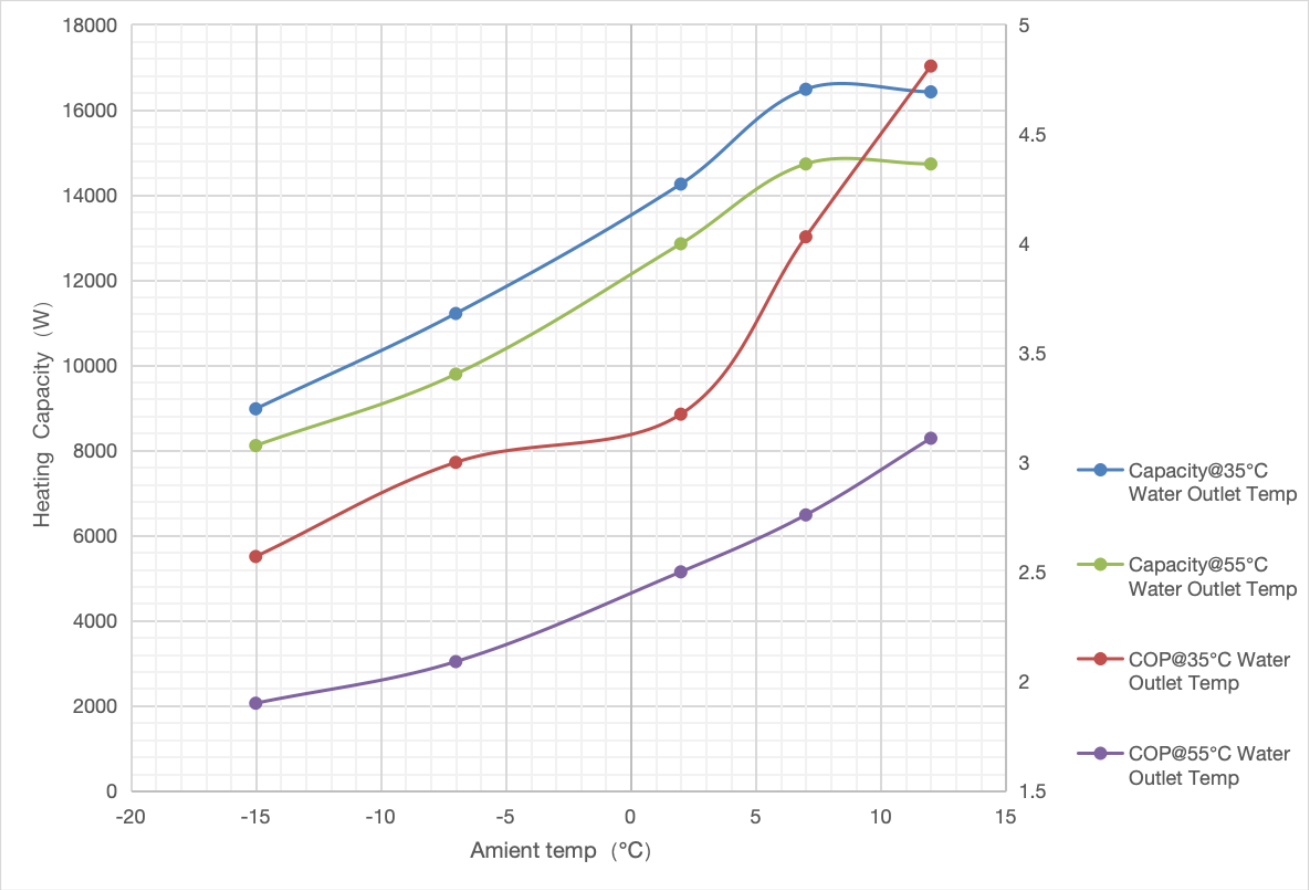
Product Features

- 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 - XDASH15D3

Average Climate/Low Temperature[35℃]				
Operating Conditions		**Capacity**	**P**	**COP**
1	A7/30-35	13.24	3.07	4.31
2	A2/W35	12.79	3.58	3.57
3	A-15/W35	8.97	3.48	2.57
A	A-7/W34	11.834	4.055	2.92
B	A2/W30	7.75	1.493	5.19
C	A7/W27	5.116	0.737	6.94
D	A12/W24	5.56	0.515	10.81
E	A-10/W35	10.84	3.865	2.81
F	A-7/W34	11.834	4.055	2.92
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825：2022				
SCOPon			5.19	
SCOPnet			5.00	
SCOP			5.00	
η [%]			196.9	
Label			A+++	
Qh [kwh]			27271	
Pdesignh [kw]			13.2	
Tbivalent [℃]			-7	
Average Climate/Low Temperature[55℃]				
Operating Conditions		**Capacity**	**P**	**COP**
1	A7/W47-55	13.28	4.81	2.76
2	A2/W55	11.40	4.42	2.58
3	A-15/W55	8.11	4.26	1.90
A	A-7/W52	10.95	4.89	2.24
B	A2/W42	7.336	1.97	3.73
C	A7/W36	4.813	0.924	5.21
D	A12/W30	4.986	0.619	8.05
E	A-10/W55	9.685	4.8	2.02
F	A-7/W52	10.95	4.89	2.24
Seasonal Space Heating Energy Efficiency - SCOP DATA EN14825：2022				
SCOPon			3.84	
SCOPnet			3.73	
SCOP			3.73	
η [%]			146.3	
Label			A++	
Qh [kwh]			27271	
Pdesignh [kw]			13.2	
Tbivalent [℃]			-7	

Capacity Efficiency Curve - XDASH15D3



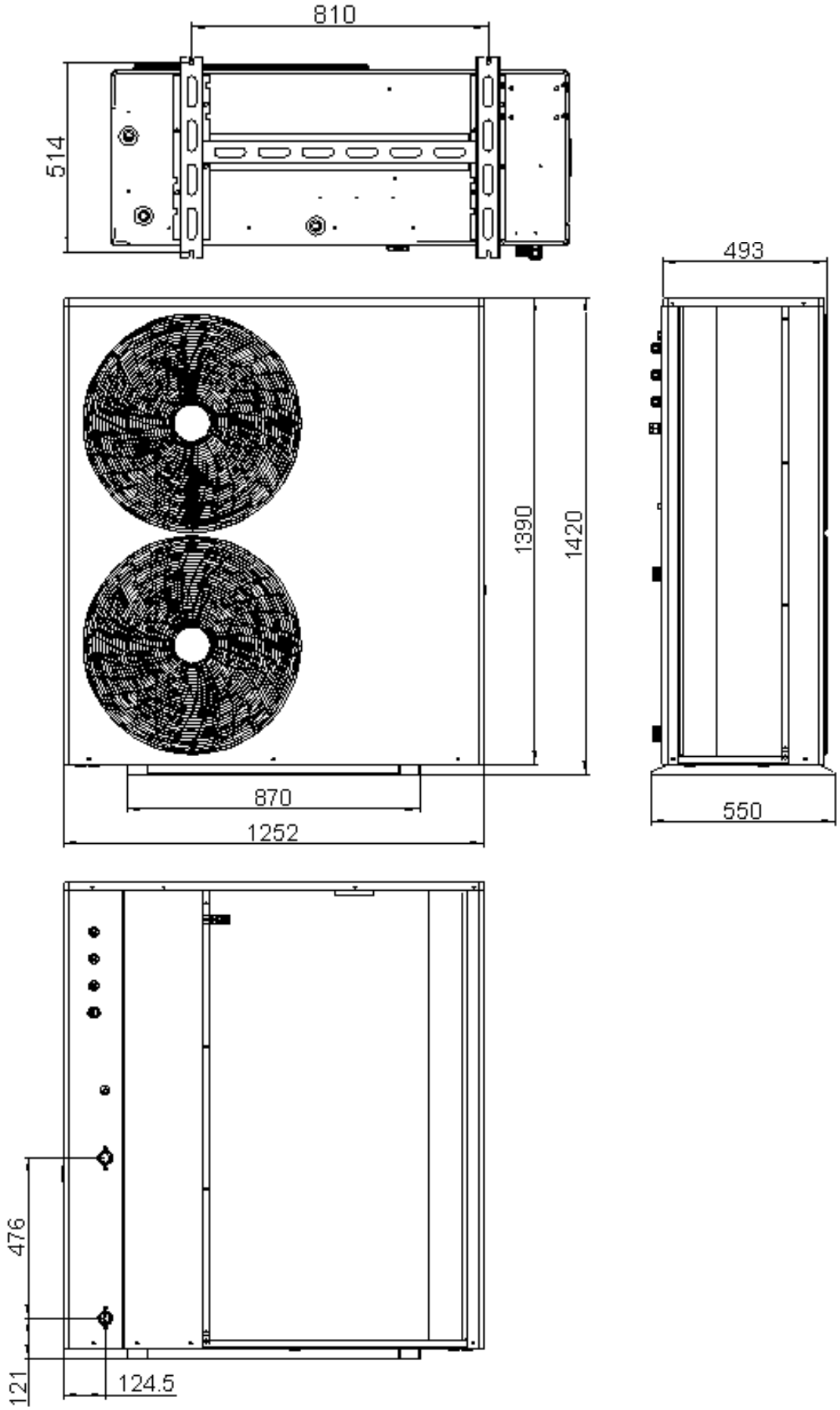
XDASH15D3 - Capacity Efficiency Curve

	Capacity@35℃ Water Outlet Temp	COP@35℃ Water Outlet Temp	Capacity@55℃ Water Outlet Temp	COP@55℃ Water Outlet Temp
-15	8972	2.57	8109	1.9
-7	11211	3	9787	2.09
2	14250	3.22	12848	2.5
7	16477	4.03	14723	2.76
12	16416	4.81	14723	3.11

Test report of XDASH15D3 (R290) - Heating (Defrost included) 35℃ SCOP:5.00kWh/kWh Pdesignh:13.2kW							
Amient Temp(℃)	**Water OutletTemp(℃)**	**Compressor Speed (Hz)**	**Heating Capacity(W)**	**Input Power (W)**	**COP(W/W)**	**I(A)**	**Note**
DB12/WB11	55.0	79	14723	4728	3.11	8.03	
		67	12049	3679	3.28	6.25	
		55	10408	3014	3.45	5.12	
		43	8283	2316	3.58	3.93	
	45.0	79	15711	4112	3.82	6.98	
		67	13217	3173	4.16	5.39	
		55	11158	2544	4.39	4.32	
		43	8717	1926	4.53	3.27	
	35.0	79	16416	3414	4.81	5.80	
		67	14006	2673	5.24	4.54	
		55	11641	2098	5.55	3.56	
		43	8951	1637	5.47	2.78	
	24.0	30	6739	792	8.51	1.34	
DB7/WB6	55.0	90	14723	5331	2.76	9.05	
		79	12909	4512	2.86	7.66	
		67	11021	3667	3.01	6.23	NO Ice
		55	9220	3002	3.07	5.10	
		43	7101	2297	3.09	3.90	
	45.0	90	15379	4669	3.29	7.93	
		79	13825	3949	3.50	6.71	
		67	11647	3161	3.68	5.37	
		55	9831	2559	3.84	4.35	
		43	7481	1923	3.89	3.27	
	35.0	90	16477	4093	4.03	6.95	
		79	14570	3478	4.19	5.91	
		73	13241	3072	4.31	5.22	
		67	12307	2760	4.46	4.69	
		55	10285	2135	4.82	3.63	
		43	8060	1572	5.13	2.67	
		30	5634	1060	5.31	1.80	
	27.0	30	5836	903	6.47	1.53	
DB2/WB1	55.0	90	12848	5146	2.50	8.74	
		79	11396	4415	2.58	7.50	Ice and defrosted
		67	9639	3546	2.72	6.02	
		55	8027	2884	2.78	4.90	
		43	5820	2243	2.59	3.81	Small ice
	45.0	90	13772	4663	2.95	7.92	
		79	12322	3912	3.15	6.64	Ice and dofrosted
		67	10017	3088	3.24	5.24	
		55	8230	2508	3.28	4.26	
		43	6288	1905	3.30	3.24	Small ice
	35.0	90	14250	4419	3.22	7.50	
		79	12797	3586	3.57	6.09	
		67	10860	2810	3.87	4.77	Ice and defrosted
		55	8568	2098	4.08	3.56	
		43	6674	1585	4.21	2.69	
	30.0	40	7207	1500	4.80	2.55	Small ice

Test report of XDASH15D3 (R290) - Heating (Defrost included) 35℃ SCOP:5.00kWh/kWh Pdesignh:13.2kW							
Amient temp(℃)	**Water OutletTemp(℃)**	**Compressor Speed (Hz)**	**Heating Capacity(W)**	**Input Power (W)**	**COP(W/W)**	**I(A)**	**Note**
DB-7/WB-8	55.0	90	9787	4681	2.09	7.95	NO Ice
		79	8853	4023	2.20	6.83	
		67	7357	3273	2.25	5.56	
		55	5997	2691	2.23	4.57	
		43	4539	2081	2.18	3.53	
	45.0	90	10657	4193	2.54	7.12	
		79	9345	3570	2.62	6.06	
		67	7879	2878	2.74	4.89	
		55	6383	2349	2.72	3.99	
		43	4848	1794	2.70	3.05	
	35	90	11211	3732	3.00	6.34	
		79	9733	3150	3.09	5.35	
		67	8170	2562	3.19	4.35	
		55	6596	2048	3.22	3.48	
		43	5101	1541	3.31	2.62	
	34.0	90	11092	3605	3.08	6.12	
DB-10/WB-11	35.3	90	10058	3676	2.74	6.24	NO Ice
DB-15/WB-16	55.0	90	8109	4260	1.90	7.23	
		79	7020	3655	1.92	6.21	
		67	5719	3015	1.90	5.12	
		55	4578	2483	1.84	4.22	
		43	3481	1935	1.80	3.29	
	45.0	90	8606	3870	2.22	6.57	
		79	7455	3302	2.26	5.61	
		67	6157	2720	2.26	4.62	
		55	5014	2213	2.27	3.76	
		43	3473	1697	2.05	2.88	
	35.0	90	8972	3486	2.57	5.92	
		79	7854	2974	2.64	5.05	
		67	6469	2399	2.70	4.07	
		55	5270	1956	2.69	3.32	
		43	4111	1483	2.77	2.52	

XDASH15D3



www.exindagroup.com

info@exindagroup.com