

Submittal Data Sheet

R290 Heat Pump 15KW

Exinda R290 Heat Pump – Efficient, Quiet, and Built for All Seasons

The Exinda R290 air-to-water heat pump provides heating, cooling, and domestic hot water in one compact system.

Using natural R290 refrigerant, it achieves ERP A+++ efficiency and delivers reliable performance even in -25°C conditions.

Designed for low noise, space-saving installation, and year-round comfort, it's an ideal solution for homes focused on energy savings and environmental responsibility.



ErP



Model:XDASH15D3

FEATURES

- **Eco-Friendly R290 Refrigerant:** Uses new-generation R290 refrigerant, which is energy-efficient, green, ozone-friendly, and low in carbon emissions.
- **Smart Anti-Freeze Control:** Equipped with microcomputer control and forced anti-freeze technology that automatically activates during shutdown or standby based on ambient and water temperatures.
- **Intelligent Defrosting:** Precisely detects frost and defrosts only when needed. With inverter technology, it enables powerful and fast defrosting under special conditions, minimizing temperature fluctuations and improving comfort and performance by up to 30%.
- **Cascade Function:** Supports cascading of up to 8 units to enhance system reliability and extend service life.
- **Standard Limited Warranty:** 10-year warranty on the compressor and all components.

Performance			
Nominal heating capacity (Kw)	15	Nominal cooling capacity (Kw)	10
Refrigerant Type	R290	GWP (Global Warming Potential)	3
Refrigerant Charge (kg)	1.1	Workable ambient temperature range (°C)	-25~43
EL. Heating Power input Min/Max (W)	1121~4041	EL. Cooling Power input Min/Max (W)	1558~3584
COP(W/W)	3.89-5.03	EER(W/W)	2.75-3.08
Rated Heating Conditions (°C)	Leaving Water Temp. : 35 Ambient (DB/WB) : 7/6	Rated Cooling Conditions (°C)	Leaving Water Temp. : 7 Ambient (DB/WB) : 35/24

Performance values indicated above are in accordance with EN14511

Product Details

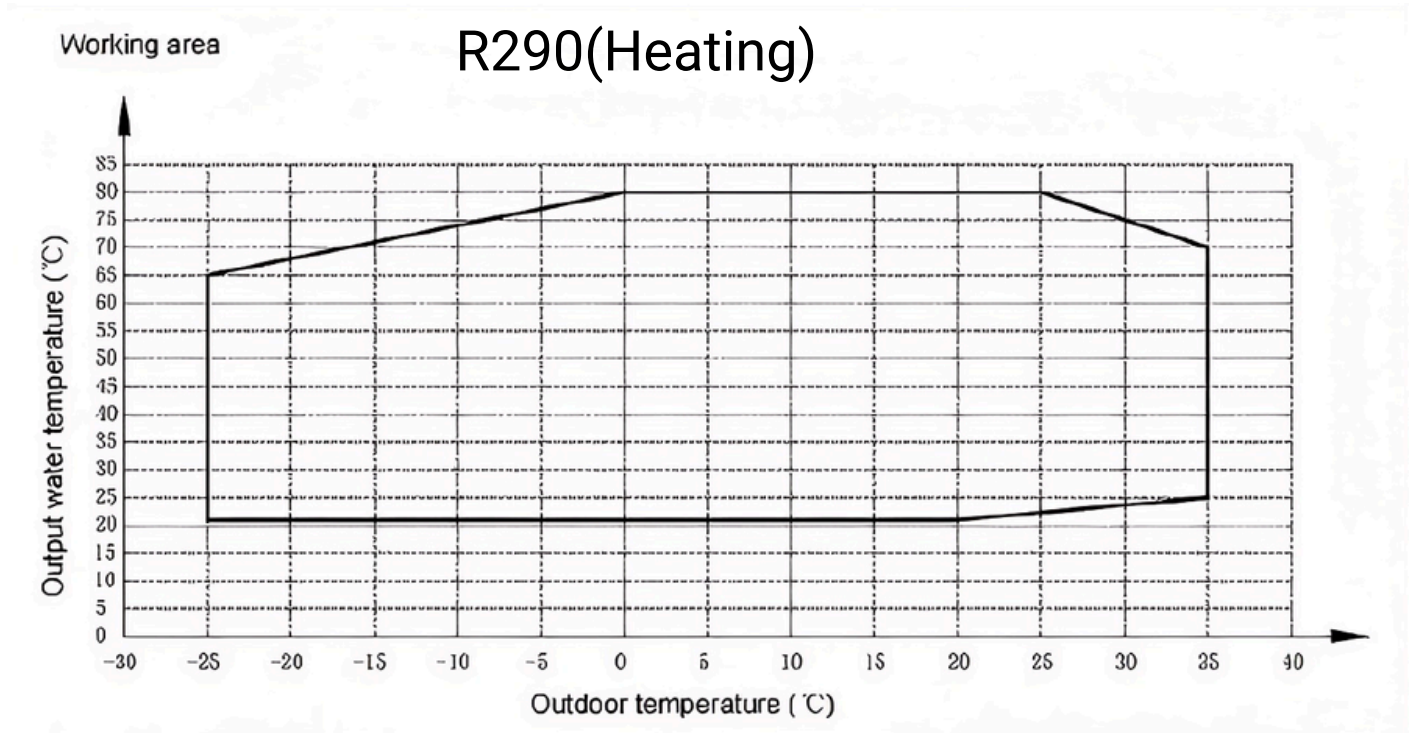
Power Supply (V/Hz/Ph)	380-415V/50Hz/3Ph	Compressor Type	DC inverter
Power Supply Connections	R,S,T ,N ,Ground	Sound Pressure dB(A) (Daytime Max/Rated/Low Noise)	61/59/38
Min. Circuit Amps MCA (A):	14	Max Overcurrent Protection (MOP) (A)	35
Cooling Mode Leaving Water Temp (°C)	7 ~ 27	Heating Mode Leaving Water Temp (°C)	35 ~ 60
Piping Connections Inlet/Outlet	G1"	Water flow(m³/h)	2.6
Net Dimensions (LxWxH) (mm)	1252*550*1420	Shipping Dimensions (LxWxH) (mm)	1300*575*1550
Net (kg)	112	Shipping Weight (kg)	137

Notes:

*Must follow installation instructions in the applicable installation manual.

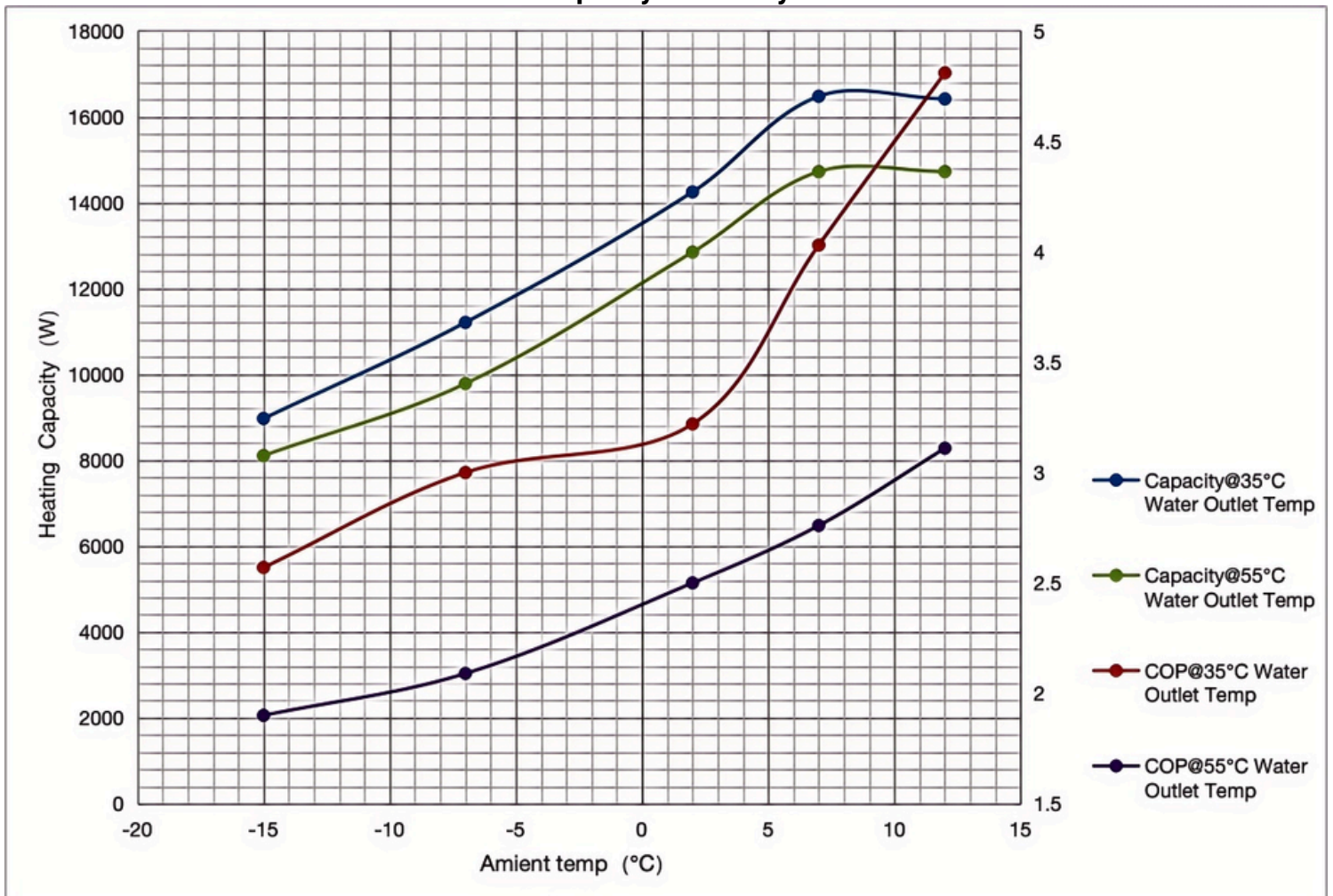
1. Power wiring size must comply with the applicable local and national code.
2. Sound power level is measured in accordance with EN12102.
3. Sound power level is converted value at 1m distance .
- 4.All installation sites must be equipped with an Earth Leakage Circuit Breaker (ELCB).

Operating Envelop



Heating Curve

15KW Capacity Efficiency Curve



Heating Capacity Table

Amient temp (°C)	Water Outlet Temp (°C)	Heating Capacity (W)	Input Power (W)	COP (W/W)	
DB12/WB11	55	14723	4728	3.11	
		12049	3679	3.28	
		10408	3014	3.45	
		8283	2316	3.58	
	45	15711	4112	3.82	
		13217	3173	4.16	
		11158	2544	4.39	
		8717	1926	4.53	
	35	16416	3414	4.81	
		14006	2673	5.24	
		11641	2098	5.55	
		8951	1637	5.47	
	24	6739	792	8.51	
	DB7/WB6	55	14723	5331	2.76
			12909	4512	2.86
			11021	3667	3.01
9220			3002	3.07	
7101			2297	3.09	
45		15379	4669	3.29	
		13825	3949	3.5	
		11647	3161	3.68	
		9831	2559	3.84	
		7481	1923	3.89	
35		16477	4093	4.03	

DB7/WB6	35	14570	3478	4.19	
		13241	3072	4.31	
		12307	2760	4.46	
		10285	2135	4.82	
		8060	1572	5.13	
		5634	1060	5.31	
	27	5836	903	6.47	
DB2/WB1	55	12848	5146	2.5	
		11396	4415	2.58	
		9639	3546	2.72	
		8027	2884	2.78	
		5820	2243	2.59	
	45	13772	4663	2.95	
		12322	3912	3.15	
		10017	3088	3.24	
		8230	2508	3.28	
		6288	1905	3.3	
	35	14250	4419	3.22	
		12797	3586	3.57	
		10860	2810	3.87	
		8568	2098	4.08	
		6674	1585	4.21	
	30	7207	1500	4.8	
	DB-7/WB-8	55	9787	4681	2.09
			8853	4023	2.2
7357			3273	2.25	
5997			2691	2.23	
4539			2081	2.18	
45		10657	4193	2.54	

DB-7/WB-8	45	9345	3570	2.62
		7879	2878	2.74
		6383	2349	2.72
		4848	1794	2.7
	35	11211	3732	3
		9733	3150	3.09
		8170	2562	3.19
		6596	2048	3.22
		5101	1541	3.31
	34	11092	3605	3.08
DB-10/WB-11	35.3	10058	3676	2.74
DB-15/WB-16	55	8109	4260	1.9
		7020	3655	1.92
		5719	3015	1.9
		4578	2483	1.84
		3481	1935	1.8
	45	8606	3870	2.22
		7455	3302	2.26
		6157	2720	2.26
		5014	2213	2.27
		3473	1697	2.05
		35	8972	3486
	7854		2974	2.64
	6469		2399	2.7
	5270		1956	2.69
	4111		1483	2.77

DIMENSIONAL DRAWING

