

Submittal Data Sheet

R290 Heat Pump 9KW

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.



Model:XDASH09C

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)	9	Nominal cooling capacity (Kw)	5.5
Refrigerant Type	R290	GWP (Global Warming Potential)	3
Refrigerant Charge (kg)	0.68	Workable ambient temperature range (°C)	-25~43
EL. Heating Power input Min/Max (W)	582~2375	EL. Cooling Power input Min/Max (W)	610~2141
COP(W/W)	3.73-5.13	EER(W/W)	2.47-3.04
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)	220-240V/50Hz/1Ph	Compressor Type	DC inverter
Power Supply Connections	L ,N ,Ground	Sound Pressure dB(A) (Daytime Max/Rated/Low Noise)	61/59/38
Min. Circuit Amps MCA (A):	21	Max Overcurrent Protection (MOP) (A)	26
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)	1.5
Net Dimensions (LxWxH) (mm)	1200*550*855	Shipping Dimensions (LxWxH) (mm)	1250*575*985
Net (kg)	100	Shipping Weight (kg)	110

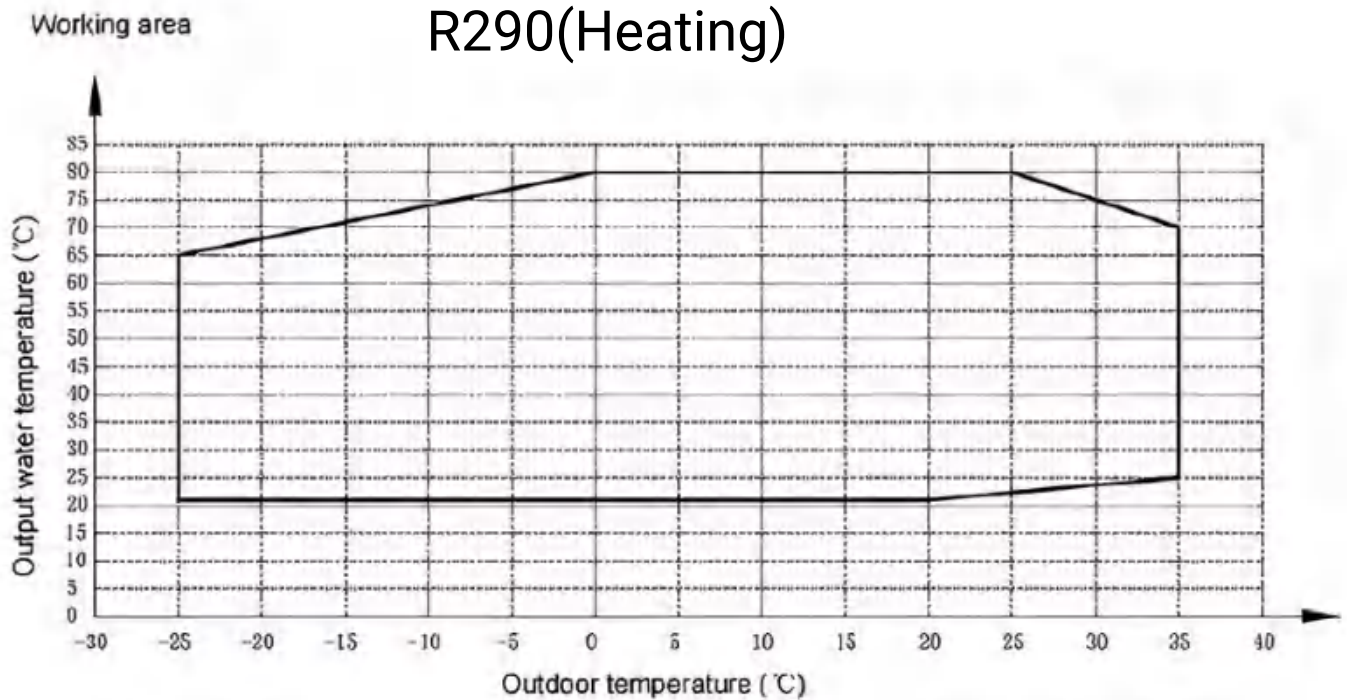
Notes:

*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).

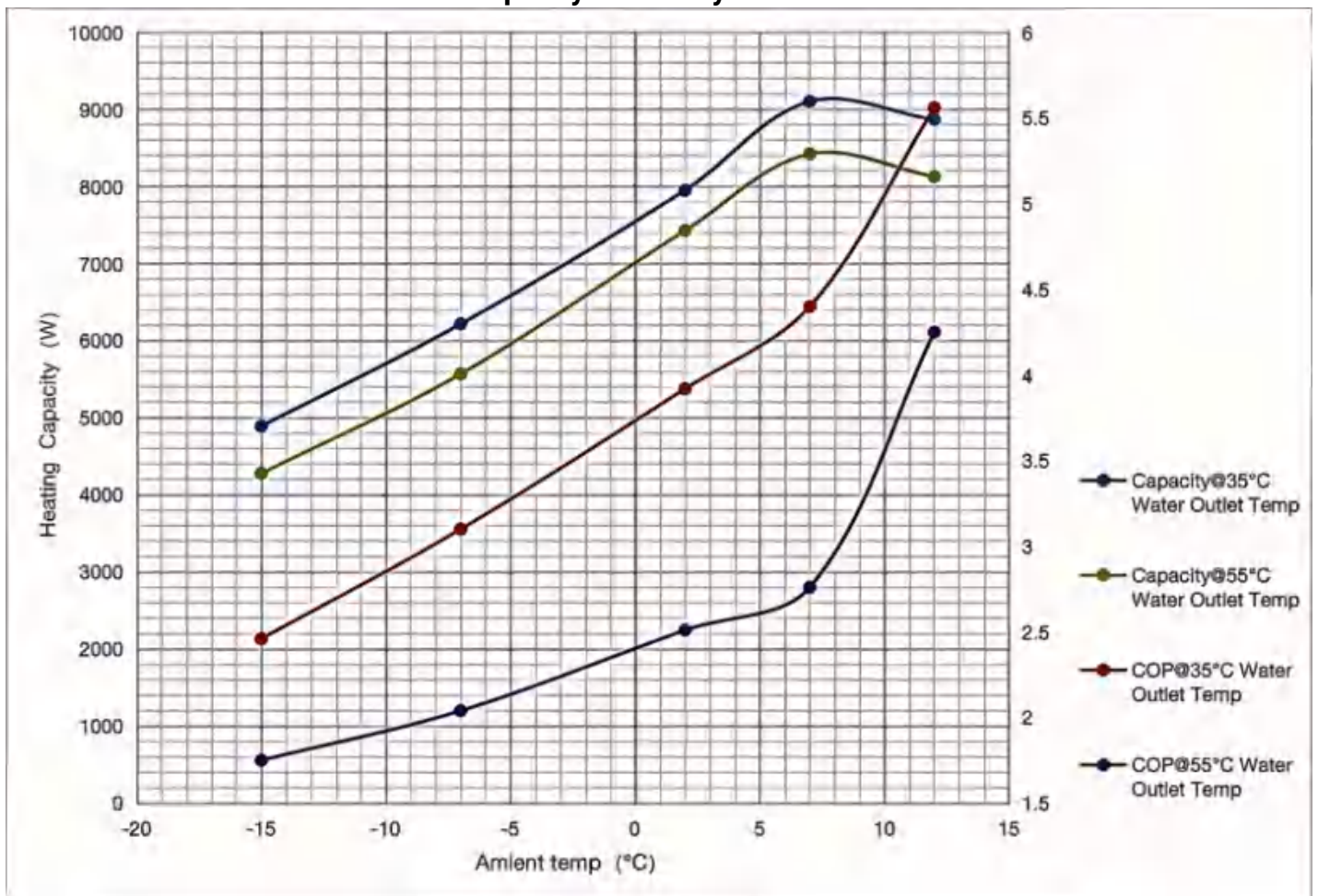
Operating Envelop

R290(Heating)



Heating Curve

9KW 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	8130	1913	4.25
		7239	1649	4.39
		5961	1324	4.5
		4636	1009	4.6
	45	8480	1782	4.76
		7367	1468	5.02
		6108	1164	5.25
		4985	912	5.47
	35	8872	1596	5.56
		7566	1316	5.75
		6304	1062	5.94
		5162	845	6.11
	24	3964	618	6.42
DB7/WB6	55	8424	3057	2.76
		8089	2664	3.04
		7049	2274	3.1
		6748	2135	3.16
		5729	1782	3.21
		4384	1280	3.43
	45	8930	2721	3.28
		8435	2277	3.7
		7139	1856	3.85
		6070	1423	4.27
		4768	1048	4.55

DB7/WB6	45	3556	734	4.84
	35	9106	2069	4.4
		8611	1883	4.57
		7982	1682	4.75
		7033	1428	4.93
		6193	1207	5.13
		4399	815	5.4
		2945	600	4.91
	35	8872	1596	5.56
		7566	1316	5.75
		6304	1062	5.94
		5162	845	6.11
DB2/WB1	55	7430	2960	2.51
		6960	2740	2.54
		5888	2186	2.69
		4898	1719	2.85
		3773	1238	3.05
	45	7738	2204	3.51
		7310	2041	3.58
		6132	1685	3.64
		5224	1411	3.7
		4156	1088	3.82
	35	7954	2030	3.92
		7412	1862	3.98
		6732	1654	4.07
		5144	1194	4.31
		3678	798	4.61
	30	3843	780	4.93

DB-7/WB-8	55	5571	2729	2.04
		5196	2542	2.04
		4303	2067	2.08
		3566	1722	2.07
		2536	1397	1.81
	45	5821	2439	2.39
		5449	2243	2.43
		4553	1820	2.5
		3810	1497	2.54
		2973	1201	2.48
	35	6219	2006	3.1
		5887	1844	3.19
		4912	1506	3.26
		4063	1182	3.44
		3189	765	4.17
	34	6319	1997	3.16
DB-10/WB-11	35	6115	2160	2.83
DB-15/WB-16	55	4279	2440	1.75
		4006	2281	1.76
		3260	1910	1.71
		2694	1595	1.69
		2017	1281	1.57
	45	4482	2195	2.04
		4229	2037	2.08
		3505	1688	2.08
		2905	1401	2.07
		2159	1129	1.91

DIMENSIONAL DRAWING

