

Submittal Data Sheet

R290 Heat Pump 6KW

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 No. : XDASH06C3

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)	6	Nominal cooling capacity (Kw)	4.5
Refrigerant Type	R290	GWP (Global Warming Potential)	3
Refrigerant Charge (kg)	0.55	Workable ambient temperature range (°C)	-25~43
EL. Heating Power input Min/Max (W)	476-1572	EL. Cooling Power input Min/Max (W)	347-1615
COP(W/W)	3.86-4.34	EER(W/W)	2.45-2.91
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

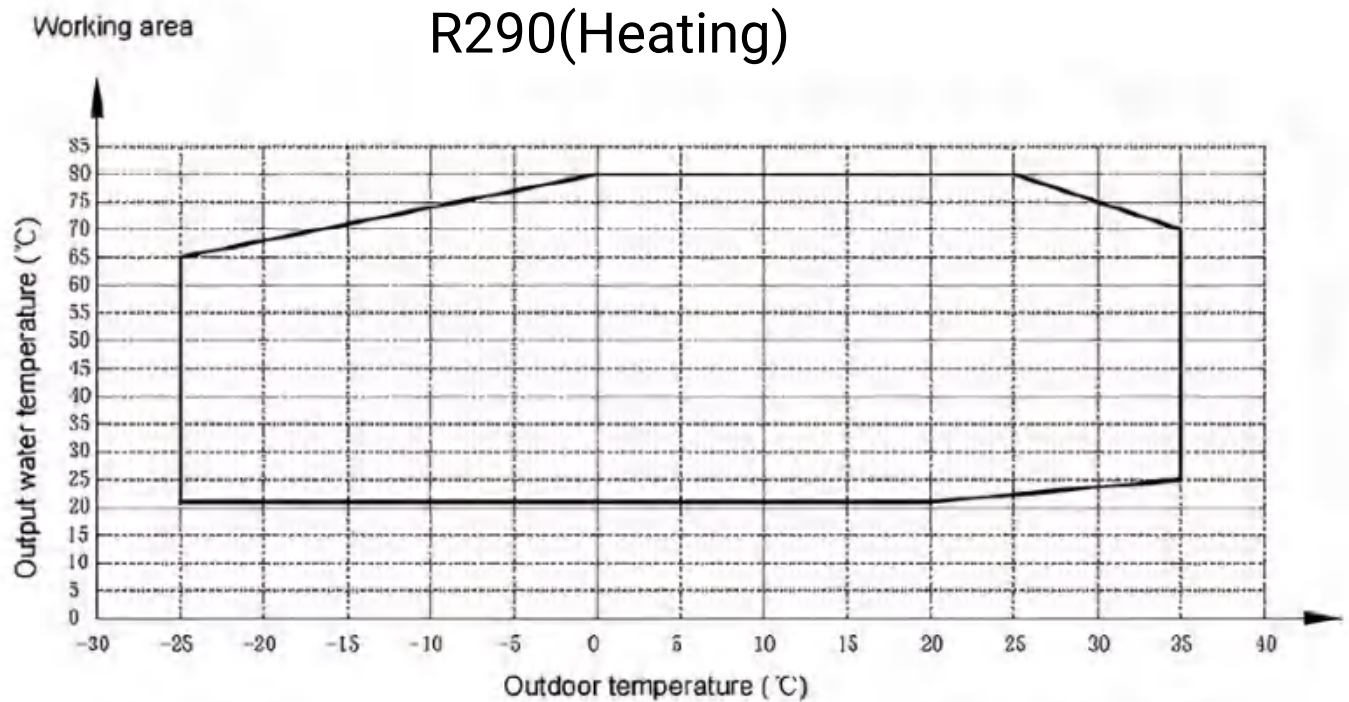
Power Supply (V/Hz/Ph)	220-240V/50Hz/1Ph	Compressor Type	DC inverter
Power Supply Connections	L ,N ,Ground	Sound Pressure dB(A) (Daytime Max/Rated/Low Noise)	61/57/38
Min. Circuit Amps MCA (A):	16	Max Overcurrent Protection (MOP) (A)	20
Cooling Mode Leaving Water Temp (°C)	7 ~ 27	Heating Mode Leaving Water Temp (°C)	35 ~ 60
Piping Connections Inlet/Outlet	G1"	Water flow(m³/h)	1.0
Net Dimensions (LxWxH) (mm)	1150*520*755	Shipping Dimensions (LxWxH) (mm)	1200*545*885
Net (kg)	68	Shipping Weight (kg)	76

Notes:

*Must follow installation instructions in the applicable installation manual.

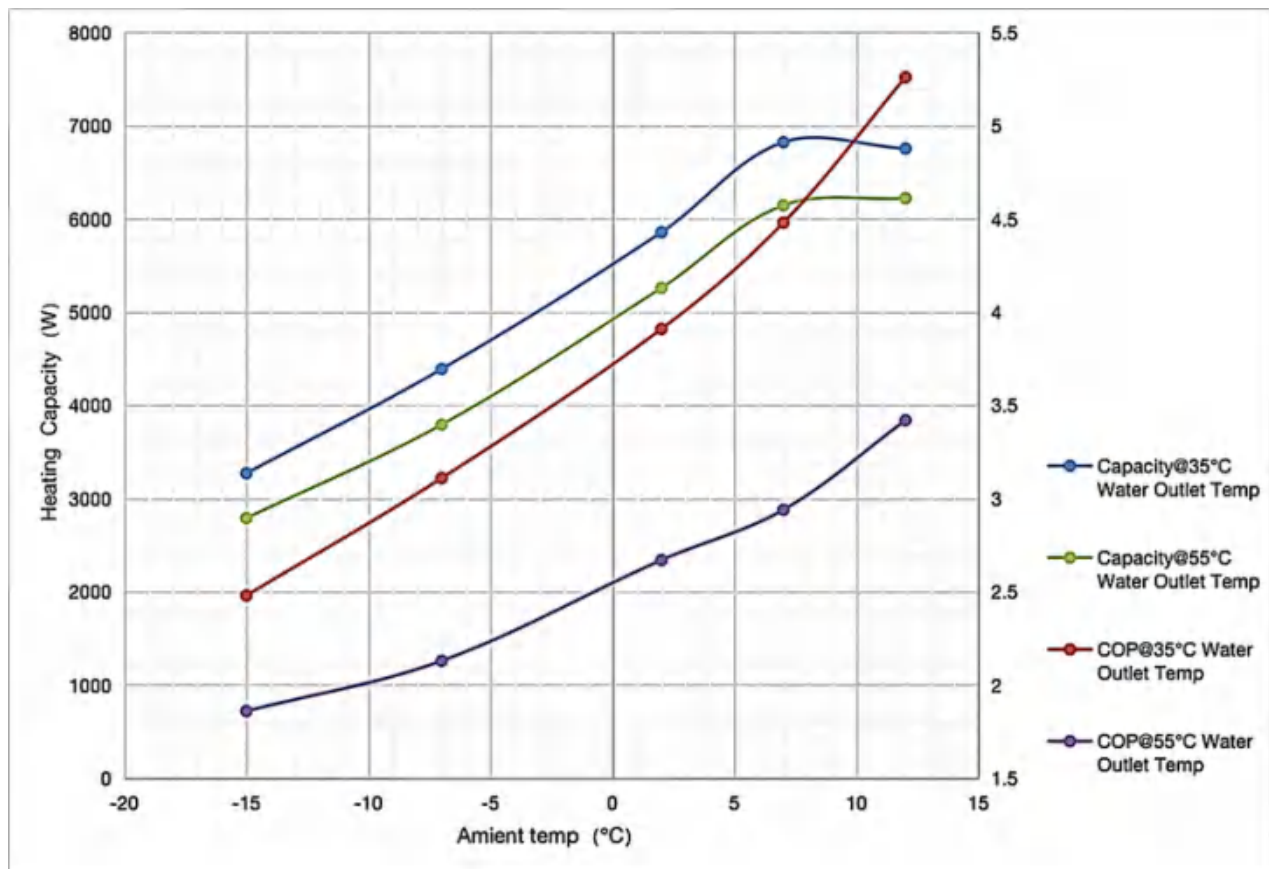
1. Power wiring size must comply with the applicable local and national code.
2. Sound power level is measured in accordance with EN12102.
3. Sound power level is converted value at 1m distance .
- 4.All installation sites must be equipped with an Earth Leakage Circuit Breaker (ELCB).

Operating Envelop



Heating Curve

6KW Capacity Efficiency Curve



Heating Capacity Table

Amient temp (°C)	Water Outlet Temp	Heating Capacity	Input Power (W)	COP (W/W)
DB12/WB11	55	6223	1819	3.42
		5305	1513	3.51
		4276	1210	3.53
		3377	939	3.6
	45	6526	1540	4.24
		5605	1289	4.35
		4591	1018	4.51
		3687	812	4.54
	35	6755	1283	5.26
		5584	1047	5.33
		4785	890	5.38
		3710	666	5.57
	24	2808	320	8.77
DB7/WB6	55	6146	2089	2.94
		5372	1783	3.01
		4566	1487	3.07
		3750	1199	3.13
	45	6633	1815	3.65
		5850	1542	3.79
		4979	1295	3.85
		4018	1030	3.9
		3195	801	3.99
		1985	454	4.37
	35	6823	1522	4.48

DB7/WB6	35	5999	1312	4.57
		5136	1067	4.82
		4209	862	4.88
		3388	682	4.97
		2125	401	5.3
	27	2343	370	6.33
DB2/WB1	55	5260	1970	2.67
		4564	1690	2.7
		3820	1408	2.71
		3229	1176	2.75
		2590	900	2.88
	45	5565	1695	3.28
		4897	1432	3.42
		4155	1207	3.44
		3552	994	3.57
		2781	755	3.68
	35	5857	1500	3.91
		5134	1302	3.94
		4285	1071	4
		3551	826	4.3
		2882	662	4.35
	30	3070	639	4.81
	55	3794	1785	2.13
		3329	1529	2.18
		2961	1343	2.21
		2323	1042	2.23
		1937	834	2.32
	45	4168	1575	2.65

DB-7/WB-8	45	3651	1358	2.69
		3046	1119	2.72
		2524	909	2.78
		1915	670	2.86
		2125	401	5.3
	35	4390	1414	3.11
		3865	1233	3.13
		3268	1035	3.16
		2748	848	3.24
		1995	600	3.33
	34	4466	1386	3.22
DB-10/WB-11	35.3	4089	1391	2.94
DB-15/WB-16	55	2970	1596	1.86
		2649	1394	1.9
		2308	1182	1.95
		1992	985	2.02
		1610	771	2.09
	45	3066	1452	2.11
		2760	1283	2.15
		2375	1076	2.21
		2011	893	2.25
		1535	655	2.34
	35	3272	1318	2.48
		2964	1163	2.55
		2523	983	2.57
		2105	809	2.6
		1620	616	2.63

DIMENSIONAL DRAWING

