

Submittal Data Sheet

R290 Heat Pump 30KW

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:XDASH30D3

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			
Nomal Heating Capacity	30kW	Max.Cooling Capacity (A35/W7)	22.5
Refrigerant Type	R290	GWP (Global Warming Potential)	3
Refrigerant Charge (kg)	3.2	Workable ambient temperature range (°C)	-25~43
EL. Heating Power input Max (W)	12800	EL. Cooling Power input Min/Max (W)	12800
COP(W/W)	4.5	EER(W/W)	3.1
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):	24	Max Overcurrent Protection (MOP) (A)	30
Cooling Mode Leaving Water Temp (°C)	7 ~ 27	Heating Mode Leaving Water Temp (°C)	35 ~ 70
Piping Connections Inlet/Outlet	G1-1/4"	Water flow(m³/h)	5.2
Net Dimensions (LxWxH) (mm)	1252*550*1420	Shipping Dimensions (LxWxH) (mm)	1300*575*1550
Net (kg)	180	Shipping Weight (kg)	200

Notes:

*Must follow installation instructions in the applicable installation manual.

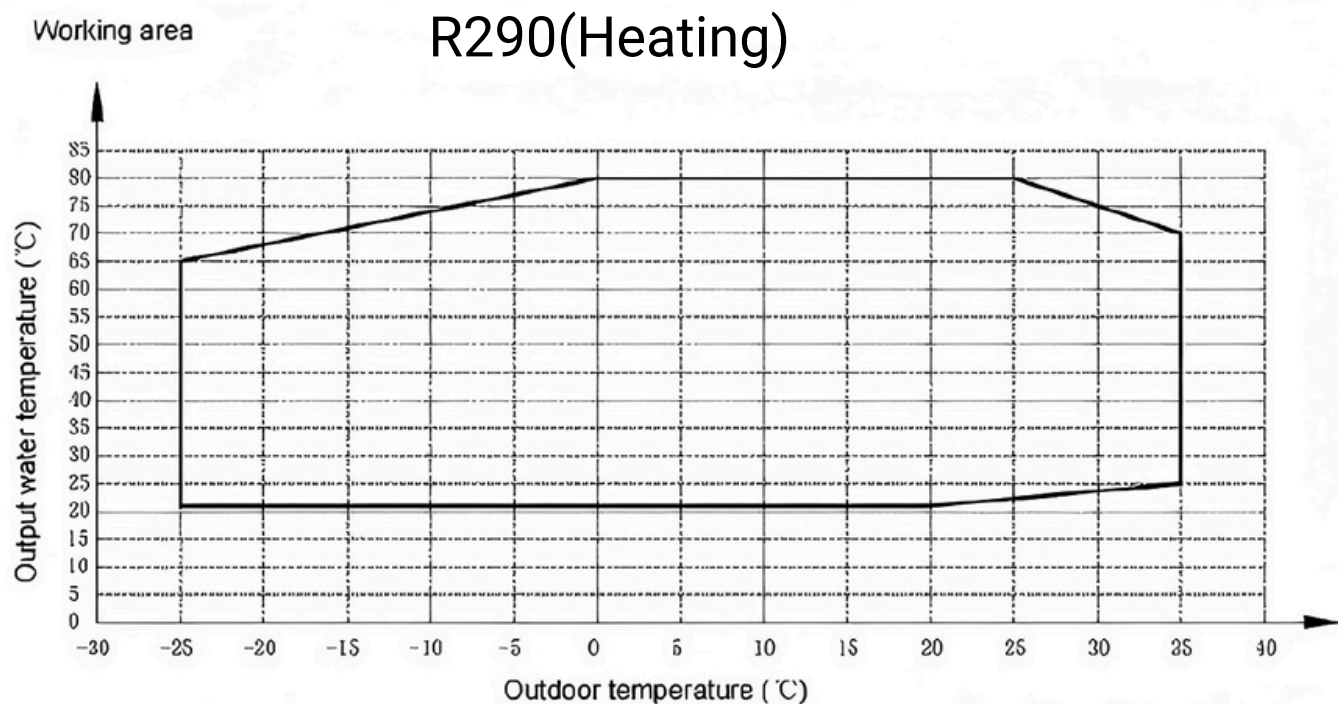
1. Power wiring size must comply with the applicable local and national code.

2. Sound power level is measured in accordance with EN12102.

3. Sound power level is converted value at 1m distance .

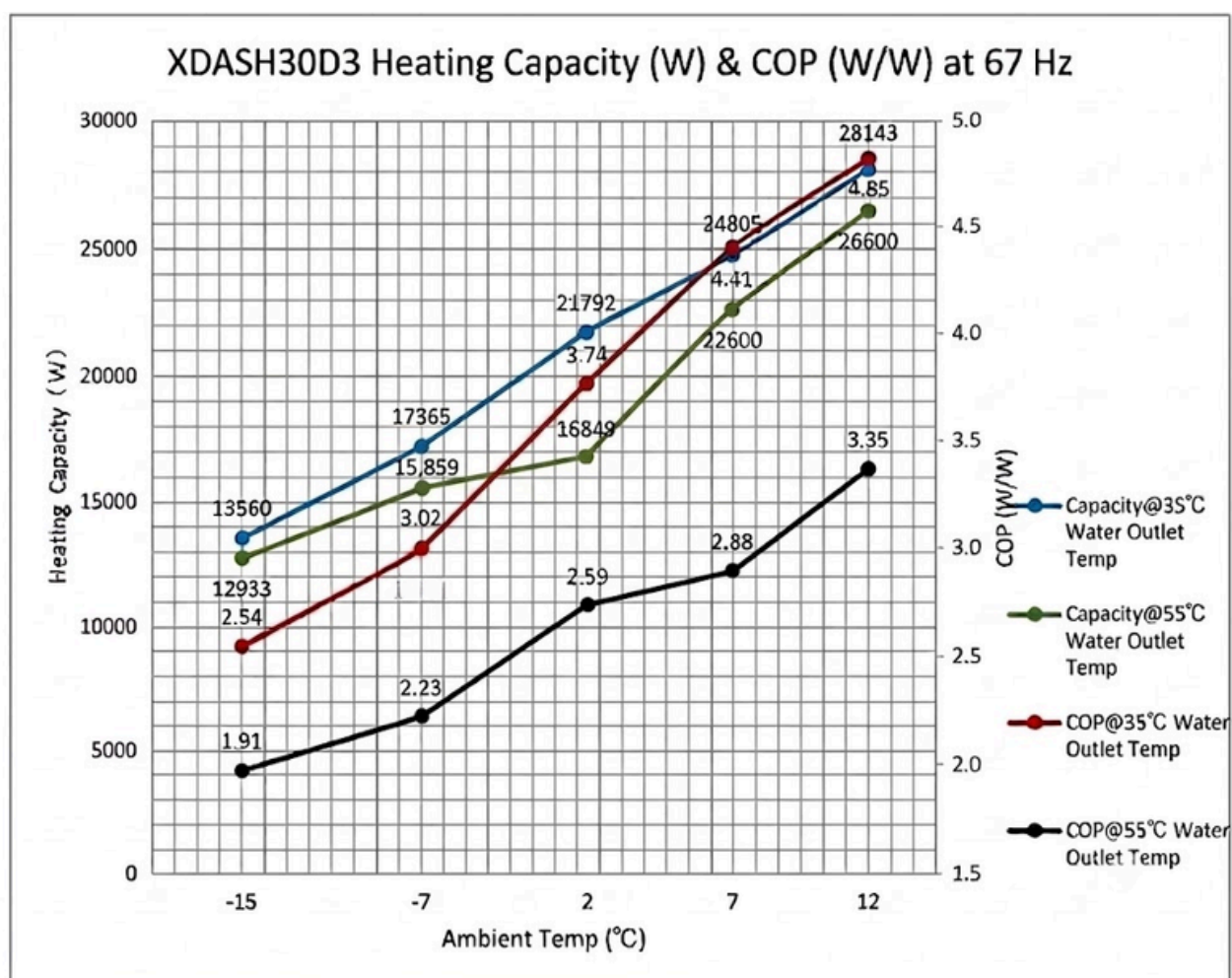
4.All installation sites must be equipped with an Earth Leakage Circuit Breaker (ELCB).

Operating Envelop



Heating Curve

30KW Capacity Efficiency Curve



Ambient temp (°C)	Water Outlet Temp (°C)	Compressor Speed (Hz)	Heating Capacity (W)	Input Power (W)	COP (W/W)
DB12/WB11	55	79	32070	9837	3.26
		67	26600	7940	3.35
		55	21853	6316	3.46
		43	16708	4680	3.57
	45	79	33186	8488	3.91
		67	27579	6710	4.11
		55	22498	5220	4.31
		43	17435	3892	4.48
	35	79	34533	7475	4.62
		67	28143	5803	4.85
		55	23252	4175	5.57
		43	18208	3123	5.83
	24	30	13436	1615	8.32
DB7/WB6	55	90	31588	11571	2.73
		79	26013	9324	2.79
		67	22600	7847	2.88
		55	18551	6143	3.02
		43	14383	4398	3.27
	45	90	32157	9834	3.27
		79	28171	8237	3.42
		67	23854	6757	3.53
		55	19294	5159	3.74
		43	15144	3944	3.84

DB7/WB6	35	90	33208	8407	3.95
		79	29123	6901	4.22
		67	24805	5625	4.41
		55	20355	4396	4.63
		43	17422	3541	4.92
	30	27	13964	2600	5.37
DB2/WB1	55	90	27411	11664	2.35
		79	23313	9288	2.51
		67	19804	7646	2.59
		55	16392	6281	2.61
		43	12360	4337	2.85
	45	90	28891	9894	2.92
		79	24290	8151	2.98
		67	21250	6703	3.17
		55	16840	5214	3.23
		43	13007	3918	3.32
	35	90	30353	8747	3.47
		79	25907	7257	3.57
		67	21792	5827	3.74
		55	17209	4435	3.88
		43	13824	3331	4.15
	30	30	13552	2978	4.55
DB-7/WB-8	55	90	21022	11006	1.91
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		79	18557	8631	2.15
		67	15859	7112	2.23
		55	11965	5113	2.34
		43	10513	4222	2.49

DB-7/WB-8	45	90	22939	10061	2.28
		79	19549	8283	2.36
		67	16550	6674	2.48
		55	13254	5198	2.55
		43	12853	4832	2.66
	35	90	23164	8243	2.81
		79	19842	6795	2.92
		67	17365	5750	3.02
		55	13752	4380	3.14
		43	13025	4033	3.23
	34	90	23304	8177	2.85
DB-15/WB-16	55	90	16127	9599	1.68
		79	14185	8060	1.76
		67	12933	6771	1.91
		55	11252	5333	2.11
		43	10945	4579	2.39
	45	90	17010	8813	1.93
		79	15029	7296	2.06
		67	12176	5716	2.13
		55	11818	5347	2.21
		43	11168	4732	2.36
	35	90	18367	7917	2.32
		79	15928	6582	2.42
		67	13560	5339	2.54
		55	12840	4845	2.65
		43	11794	4273	2.76

DIMENSIONAL DRAWING

