

# **Exinda Climate Solution**

2024-2025



## €×INDA





RESIDENTIAL AIR TO WATER HEAT PUMP

COMMERCIAL AIR COOLED HEAT PUMP CHILLER





POOL & SPA HEAT PUMP

ENERGY RECOVERY VENTILATOR HEAT RECOVERY VENTILATOR

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## Who is **EXINDA**?



Exinda is a national high-tech enterprise specialized in manufacturing air-to-water heat pump with strong R&D strength and providing comprehensive energy-saving solutions for clients from all over the world.

We has a complete heat pump supply chain with products including Swimming Pool Heat Pump, Residential Heat Pump, Commercial Heat Pump, ERV & HRV ventilator etc.

Taking the corporate social responsibility for creating a green future, we will continue to identify opportunities and seek new energy solutions as we strive to make the world's spaces happier and more comfortable.



# 100% Quality Control

Strict quality control for all parts, and provide stable heat pump product. With 3 Explosion-proof production lines, annual output of heat pump with 90000pcs.The production line covers nitrogen pressure leak detection, halogen leak detection, electrical safety Inspection, and commodity inspection (connect water & electricity, each heat pump under testing with 15mins.)

Advanced production line and complete testing process, 100% quality control in production process makes stable quality.



# R290 Hydronics Air-to-Water Heat Pumps



 R290 refrigerant can achieve a high water temperature up to 75°C, meanwhile, heat pump installation is convenient and the original gas boiler system like radiators and water pipes can be kept, achieving integrated multi-heat source and energy-saving.

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### Exinda R290 Heat Pump Range

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XDASH20D3 Three Phase Capacity 7.81~22.32 KW

XDASH15D3 Three Phase Capacity 5.64~15.72 KW

XDASH12C3 Single Phase Capacity 4.58~11.83 KW

XDASH09C3 Single Phase Capacity 2.99~8.86 KW

XDASH06C3 Single Phase Capacity 2.07~6.82 KW

### Smart Control Display



Exinda Smart Display has a convenient 4-inch touch screen that users can easily control the heat pump at home, including various intelligent modes: central heating, central cooling, hot water, heating + hot water, cooling + hot water, anti-frozen protection, defrost, timer, etc.

## IoT System & Remote Diagnostics



From performance monitoring to statistics analytics, Exinda IoT system is a cost-efficient way to diagnose faults, automatically adjust the operation logics and solve the problem, increasing the security, uptime and reliability of the heat pump.

## APP Remote Control



### Cascade Control System



- Maximum 6 units controlled by one controller
- Built-in Wi-Fi module
- Modbus and network flexibility
- Well-documented interface such as RS485.



## -25°C ~ 43°C Ultra-Wide Operating Range



## Intelligent Defrost Mode





The intelligent defrost mode of the Exinda heat pump automatically detects and melts frost on the outdoor coil, preserving the unit's heating efficiency. By preventing frost/ice accumulation in cold climates, it significantly reduces energy use, avoids equipment wear and tear, and extends heating operation time.

## **DC Inverter Technology**



Inverter systems, unlike fixed-speed ones, adjust their output using a variable-speed compressor to minimize energy consumption and maintain optimal temperature.

This leads to higher energy efficiency, effective heating/cooling, and hot water production even in cold climates, significantly reducing energy costs and electricity bills.

## Hybrid Heating System

With Modbus(RS485) Interface, Exinda Integrate Heat Pump can be connected to other energy source such as fuel boiler, solar PV panel, pellet boiler to achieve energy saving, based on local energy policy and user's preference. It will be greatly helpful in extremely cold area.



### **Components & Dedicated Structure**



## **Technical features**

Model No.		XDASH06C3A	XDASH09C3A	XDASH12C3A	XDASH15D3A	XDASH20D3A
Description						
Power Supply	V/ph/Hz	220~240 / 1 / 50	220~240 / 1 / 50	220~240 / 1 / 50	380~415 / 3 / 50	380~415 / 3 / 50
Energy Class (35°C SCOP)	/	A+++	A+++	A+++	A+++	A+++
Energy Class (55°C SCOP)	/	A++	A++	A++	A++	A+++
Min./Max. Heating Capacity (1)	KW	2.07~6.82	2.99~8.86	4.58~11.83	5.64~15.72	7.81~22.32
El. heating power input min./max.(1)	W	476~1572	582~2374	900~2935	1121~4041	1603~5818
COP min./max.(1)	/	3.90~5.14	3.73~5.13	3.81~5.10	3.87~5.10	3.84~5.12
Min./Max. Heating Capacity (2)	KW	1.95~5.91	2.73~8.58	3.54~11.43	5.06~15.22	7.60~20.84
El. heating power input min./max.(2)	W	459~1830	656~2751	853~3586	1191~4812	1833~6584
COP min./max.(2)	/	3.23~4.25	3.12~4.16	3.19~4.15	3.16~4.20	3.17~4.14
Min./Max.cooling Capacity (3)	KW	1.73~5.47	2.92~7.44	3.53~9.89	6.81~12.20	9.39~16.72
EI. cooling power input min./max.(3)	W	529~1252	676~2304	816~3003	1551~3741	2139~5159
E.E.R min./max.(3)	/	3.27~4.37	3.23~4.32	3.29~4.33	3.26~4.39	3.24~4.39
Min./Max.cooling Capacity (4)	KW	0.85~4.71	1.86~5.30	2.17~7.05	4.81~9.87	6.52~13.71
EI. cooling power input min./max.(4)	W	347~1615	610~2141	714~2791	1558~3584	2149~4943
E.E.R min./max.(4)	/	2.45~2.85	2.48~3.05	2.53~3.04	2.75~3.08	2.77~3.03
Refrigerant/ Proper Input	kg	R290/0.55kg	R290/0.7kg	R290/0.9kg	R290/1.1kg	R290/1.5kg
Fan Motor Type	/	DC motor	DC motor	DC motor	DC motor	DC motor
Fan Quantity	/	1	1	1	2	2
Compressor	Brand	HIGHLY	HIGHLY	HIGHLY	HIGHLY	HIGHLY
Plate Heat Exchanger	Brand	Alfa Laval	Alfa Laval	Alfa Laval	Alfa Laval	Alfa Laval
Circulation Pump	Brand	Wilo	Wilo	Wilo	Wilo	Wilo
Max. flow temp. in heating mode	°C	75	75	75	75	75
Min. flow temp. in heating mode	°C	20	20	20	20	20
Min. flow temp. in cooling mode	°C	7	7	7	7	7
Circulation pump delivery head	m	7	7	9	9	9
Water Pressure Drop (max)	kpa	30	30	30	30	45
Water Connection	inch	G 1	G 1	G 1	G 1	G 1-1/4
Operating Ambient Temp.	°C	-25~43	-25~43	-25~43	-25~43	-25~43
Noise level(indoor/outdoor)	dB(A)	42/52	42/52	42/52	42/52	42/58
Unit Dimensions(L/W/H)	mm	1150×520×755	1200×550×855	1200×550×855	1250×550×1420	1250×550×1420
Net Weight	kg	88	104	112	164	185
(1) Heating condition: water inlet/outle	t temperature:30	°C/35°C,Ambient temperatu	re: DB 7°C/WB 6C;			
(2) Heating condition: water inlet/outlet temperature:40°C/45°C, Ambient temperature: DB 7°C/WB 6°C;						
3) Cooling condition: water inlet/outlet temperature:23°C/18°C, Ambient temperature: DB 35°C/WB 24°C;						
4) Cooling condition: water inlet/outlet temperature:12°C/7C, Ambient temperature: DB 35°C/WB 24°C;						

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## Exinda Hydrobox





## HYB Dimension: 680×630×300mm N.W.: 30Kg

#### High Efficiency Water Pump

Class A water pump maximize the efficiency of a waterbased heating system in quiet operation, helping reduce the energy consumption

#### Multifunctional 3-Way Valve

Achieve 3 functions (hot water, central heating & cooling). Consumers can select the right modes according to their demands: hot water + heating or hot water + cooling.

#### 3KW Backup Electric Heater

The backup heater provides supplementary space heating capacity in addition to the heat pump in severe weather conditions.

#### Water Circuit Safety Valve Kit

Water circuit monitoring helps consumer find out abnormal pressure for easier installation and maintenance.

## Installation Never Been So Easy

Cost-effective & Time-saving Installation with Exinda Hydro HYB System

With the all-in-one hydrobox, installers do not need to collect those different components, which helps install all these units quickly in the most convenient way and save time.







# R290 Commercial Air Cooled Heat Pump & Chiller 45-90KW

Exinda Heating & Cooling Solutions is new sustainable and highly efficient air to water heat pumps, ideal for large commercial, industrial or multi dwelling residential applications.

By utilising R290, a natural refrigerant with a very low Global Warming Potential (GWP 3), this heat pump has a lower environmental impact when released into the atmosphere compared to other refrigerants.

It delivers outstanding A+ performance.









Cascade max.8 unit modules

## **Design & Conception**



**Removable panels** Great accessibility to internal components for service operations.



If Propane (R290) is detected by the leak detector, the unit stops running immediately. In addition, a self-contained ventilation system ensures venting of gas to the outside of the unit.

## Technical features-45KW

Model No.			XDHC45D3
	Heating Capacity	kW	40.00
Hot Water Canacity	Water Outlet	L/h	860
Hot water capacity	Heating Input Power	kW	8.8
	СОР	/	4.55
	Heating Capacity	kW	143.5
Heating Capacity A	Heating Input Power	kW	12.2
	СОР	/	4.42
	Heating Capacity	kW	43
Heating Capacity B	Heating Input Power	kW	4.02~14.38
	СОР	/	3.38
	Cooling Capacity	kW	30.00
Cooling Capacity	Cooling Input Power	kW	4.52~14.02
	EER	/	2.54
Power Supply	·	/	380~415V/3N~/50Hz
Max. Power Input		kW	10.2
Max.Input Current		А	28.6
Compressor Quantity		/	2
Compressor Type		/	Scroll Compressor
Compressor Brand		/	Copeland
Fan Quantity		/	1
Fan Type		/	Low-Noise Axial Flow Fan
Air Discharge Type		/	Vertical
Water flow		m3/h	6.2
Water Pressure Drop		kPa	60
Noise		dB(A)	60
Operation Range		°C	-25~43
Type of heat exchanger		/	Plate heat exchanger
Defrosting		/	By 4-Way Valve
Water Connection		inch	1.5
Refrigerant/ Proper Inp	ut	kg	R290
Weight		kg	350
Unit Dimensions L/W/H		mm	1025×985×1795

COP 4.55

## **A+**

Energy efficiency class

According to Delegated Regulation No. 813/2013 of the European Commission



1.Hot Water Condition: Ambient Temp. (DB/WB): 20°C /15°C, Water Circulation is from 15°C to 55°C. 2.Heating Capacity A: Ambient Temp.(DB/WB): 7°C/6°C, Water Temp.(ln/Out): 40°C/45°C. 3.Heating Capacity B: Ambient Temp.(DB/WB):-12°C/-14°C, Water Temp. Out: 41°C.

4.Cooling Capacity: Ambient Temp.(DB/WB): 35°C /24°C Water Temp.(ln/Out): 12°C/7°C.



## Technical features-90KW

Model No.			XDHC90D3
	Heating Capacity	kW	92.4
Hot Wator Capacity	Water Outlet	L/h	1986
	Heating Input Power	kW	20.2
	СОР	/	4.57
	Heating Capacity	kW	73.5
Heating Capacity A	Heating Input Power	kW	21.3
	СОР	/	3.45
	Heating Capacity	kW	50.5
Heating Capacity B	Heating Input Power	kW	20.1
	СОР	/	2.51
	Cooling Capacity	kW	62.5
Cooling Capacity	Cooling Input Power	kW	25.5
	EER	/	2.45
Power Supply		/	380~415V/3N~/50Hz
Max. Power Input		kW	27.7
Max.Input Current		A	55.2
Compressor Quantity		/	2
Compressor Type		/	Scroll Compressor
Compressor Brand		/	Copeland
Fan Quantity		/	2
Fan Type		/	Low-Noise Axial Flow Fan
Air Discharge Type		/	Vertical
Water flow		m3/h	15.5
Water Pressure Drop		kPa	75
Noise		dB(A)	67
Operation Range		°C	-25~43
Type of heat exchanger	•	/	Plate heat exchanger
Defrosting		/	By 4-Way Valve
Water Connection		inch	2.5
Refrigerant/ Proper Inp	ut	kg	R290
Weight		kg	650
Unit Dimensions L/W/H		mm	2150×1050×2250

COP 4.57

## **A+**

**Energy efficiency class** According to Delegated Regulation No. 813/2013 of the European Commission



1.Hot Water Condition: Ambient Temp. (DB/WB): 20°C /15°C, Water Circulation is from 15°C to 55°C. 2.Heating Capacity A: Ambient Temp.(DB/WB): 7°C/6°C, Water Temp.(ln/Out): 40°C/45°C.

3.Heating Capacity B: Ambient Temp.(DB/WB):-12°C/-14°C, Water Temp. Out: 41°C.

4.Cooling Capacity: Ambient Temp.(DB/WB): 35°C /24°C Water Temp.(ln/Out): 12°C/7°C.

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## **Extended operating limits**

Operating envelope in cooling mode





## Boost your capacity up to 720 kW



## Active noise reduction

The unit with multiple quiet technologies and sound-efficient components. By dynamically adjusting speed based on current demand, ambient temperature, and other variables, it ensures operational noise remains at a minimal 56dB(A).



## Easy operation



### Access anywhere anytime

Whether from the office or on the road, using a desktop PC, tablet or smartphone, the cloud solution ensures you always have full control of your machine. For adjusting set points, access to all the relevant data and functions, just a quick check or a detailed analysis,



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## CONTACT US

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