

R32 Air-to-Water Heat Pump

Heating, Cooling & Domestic Hot Water

R32 refrigerant can achieve a high water temperature up to **65°C**, meanwhile, With less CO² emission of GWP 675, list as A2 standard refrigerant.
LET'S TAKE CARE OF OUR GREEN PLANET TOGETHER!



AHRI 550/590
UL60335-2 approved



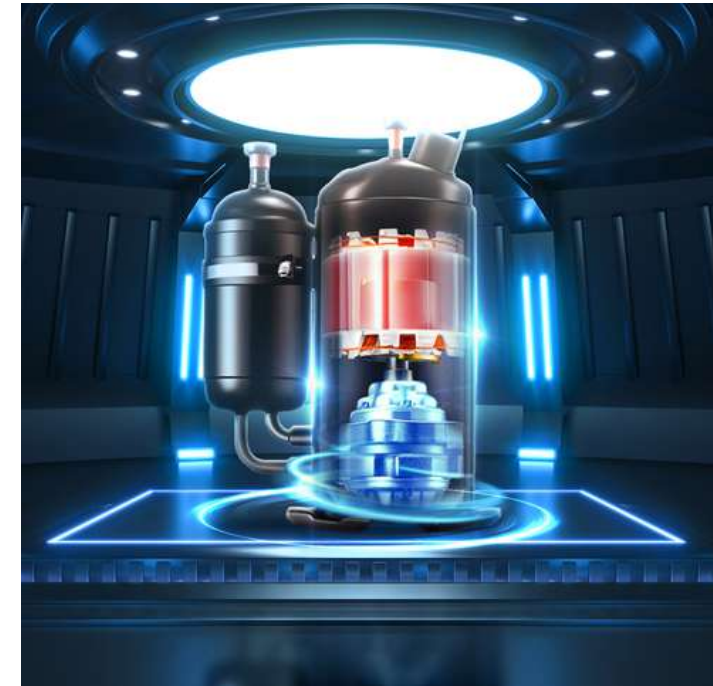


All - in -one Monoblock system

Home owners may choose the best types according to their functions needs to achieved full years climate system needed.



DC Inverter Technology



Different from fixed speed systems, inverters automatically ramps up and down by the variable speed compressor, which means it can adjust the output needed at the lowest energy consumption based on the ambient conditions as well as maintain temperature at the most comfortable level. Therefore, it achieves higher COP, more efficient heating/cooling & hot water even under extremely cold climate, and greatly saves energy costs, cut down electricity bills.

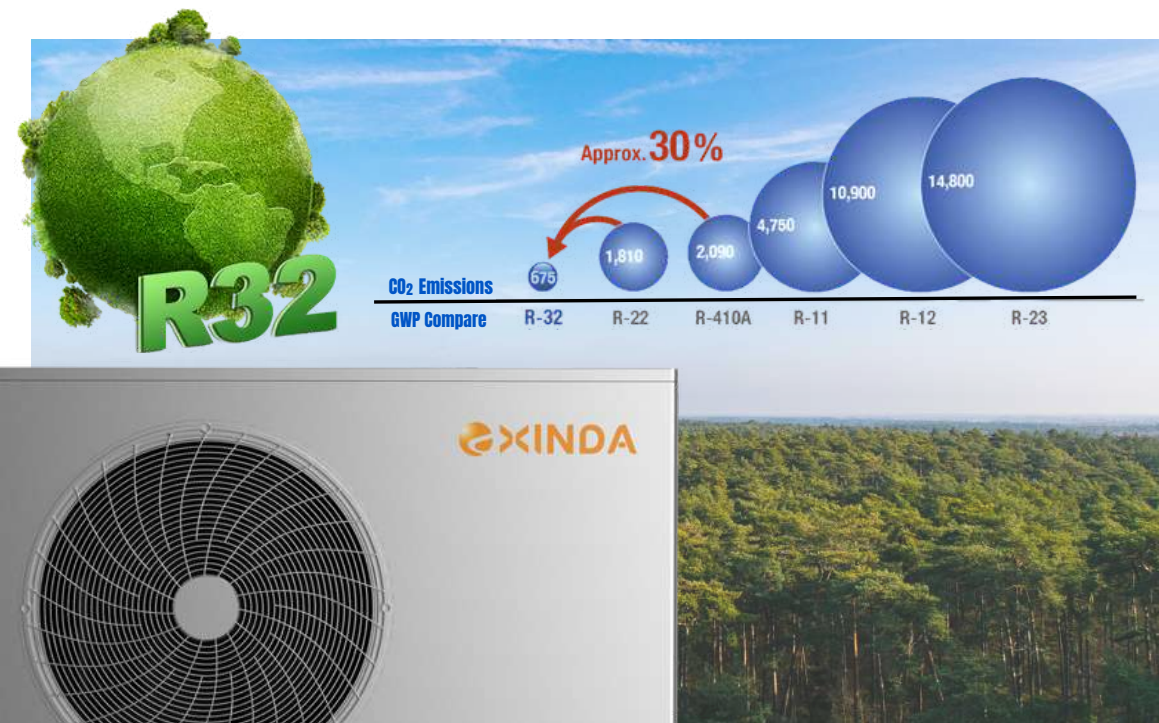
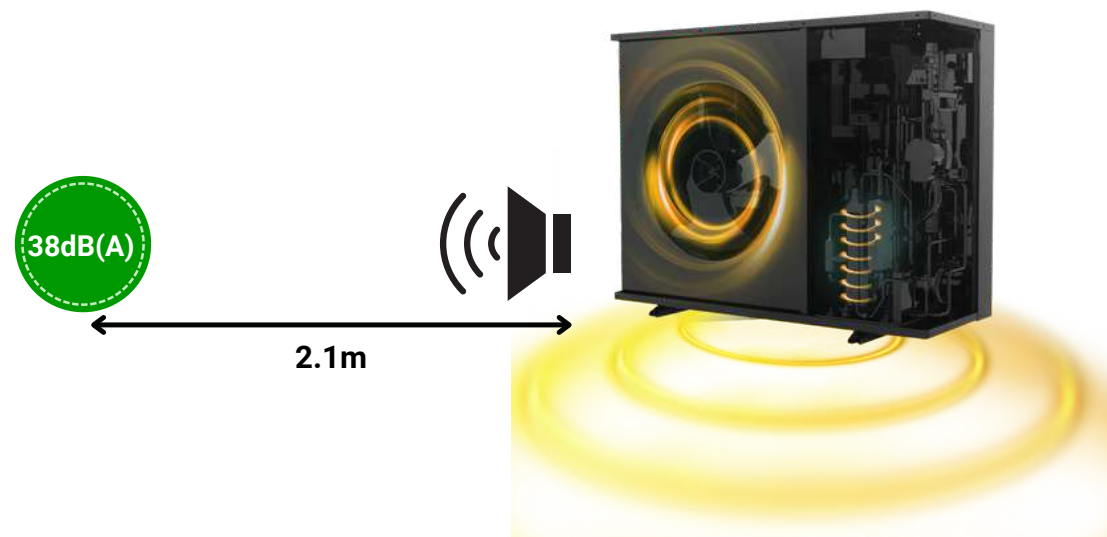
Design to Withstand the Tough Environment

Exinda heat pumps have passed the extremely cold operation test, it can stably operate at -25°C, maintain high COP, reliable stability and excellent heating performance



Silence with Comfort

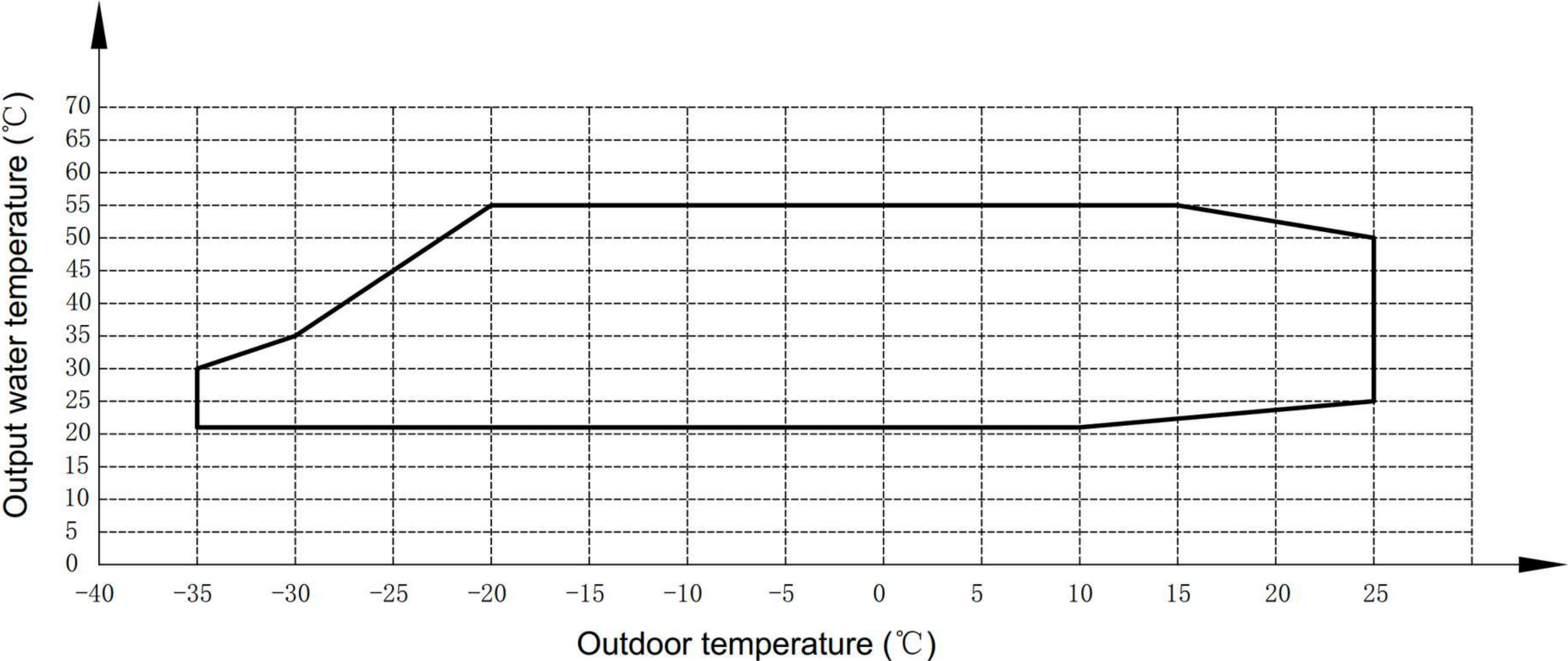
With Exinda upgrade noise reduction technology and the unique soundproof internal structure design, the sound pressure of Storm Series Air to Water Heat Pump is kept to as low as 38dB(A) at 2.1 meter distance (Min. Flow). By reducing its acoustic level, it can be installed right next to a neighbor's fence without causing problems, which meets today's expectation of neighborhood harmony.



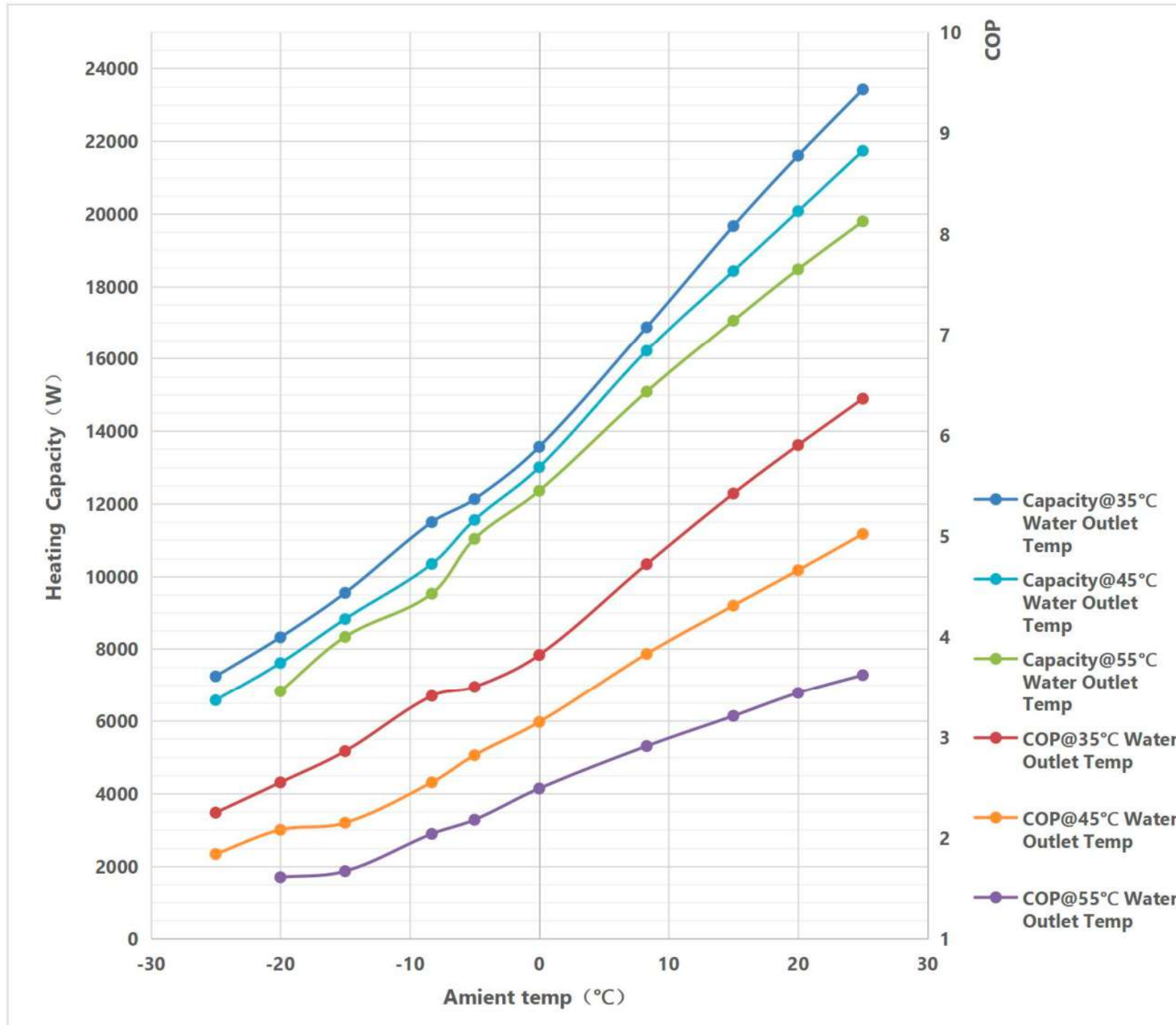
Top Energy Rating A+++

- R32 V.S. R410A: 70% less impact on global warming with R32
- R32 has one of the lowest GWP values on the market -675
- R32 is 10% more energy efficient, less refrigerant is required for the cooling system

R32 refrigerant Working area envelope



15KW heat pump Capacity efficiency curve



Heating mode											
Outlet water temperature °C		Full Speed @ Outdoor Air Temperature dB(wB) °C									
		-25	-20	-15	-8.3(-9.4)	-5	0	8.3(6.1)	15	20	25
35	Capacity (kw)	7.24	8.32	9.54	11.49	12.12	13.56	16.87	19.66	21.60	23.42
	Power input (kw)	3.22	3.26	3.34	3.37	3.46	3.54	3.57	3.62	3.66	3.69
	COP	2.25	2.55	2.86	3.41	3.50	3.82	4.72	5.42	5.90	6.36
40	Capacity (kw)	6.92	8.08	9.31	10.57	11.51	13.38	16.56	18.97	20.82	22.64
	Power input (kw)	3.38	3.67	3.85	3.64	3.71	3.82	3.89	3.91	3.93	3.97
	COP	2.05	2.20	2.42	2.91	3.10	3.50	4.26	4.85	5.30	5.70
45	Capacity (kw)	6.57	7.61	8.82	10.34	11.55	13.00	16.21	18.42	20.07	21.73
	Power input (kw)	3.57	3.66	4.10	4.06	4.09	4.13	4.24	4.28	4.31	4.33
	COP	1.84	2.08	2.15	2.55	2.82	3.15	3.83	4.31	4.66	5.02
50	Capacity (kw)		7.14	8.58	10.09	10.98	12.61	15.93	17.98	19.20	20.81
	Power input (kw)		3.78	4.36	4.53	4.51	4.49	4.71	4.72	4.77	4.80
	COP		1.89	1.97	2.23	2.43	2.80	3.38	3.81	4.02	4.33
55	Capacity (kw)		6.82	8.33	9.82	11.03	12.35	15.08	17.05	18.47	19.79
	Power input (kw)		4.24	4.99	5.09	5.05	4.97	5.18	5.31	5.37	5.46
	COP		1.61	1.67	1.93	2.18	2.49	2.91	3.21	3.44	3.62

Cooling mode											
Outlet water temperature °C		Outdoor Air Temperature									
		18.3	21.1	23.8	26.6	29.4	32	35	38	40.6	
5	Capacity (kw)	14.25	13.82	13.35	12.86	12.43	11.91	11.52	11.03	10.54	
	Power input (kw)	2.86	3.05	3.26	3.42	3.65	3.80	4.03	4.27	4.42	
	EER	4.98	4.54	4.09	3.76	3.41	3.13	2.86	2.58	2.38	
7	Capacity (kw)	15.21	14.60	14.22	13.77	13.20	12.85	12.34	11.65	11.17	
	Power input (kw)	2.84	3.02	3.23	3.41	3.60	3.78	3.96	4.22	4.43	
	EER	5.35	4.84	4.40	4.04	3.67	3.40	3.12	2.76	2.52	
9	Capacity (kw)	15.80	15.42	14.98	14.52	14.05	13.55	13.10	12.37	11.90	
	Power input (kw)	2.85	3.03	3.21	3.40	3.61	3.78	4.01	4.26	4.45	
	EER	5.54	5.08	4.67	4.26	3.89	3.59	3.27	2.90	2.67	
11	Capacity (kw)	16.51	16.15	15.70	15.31	14.81	14.37	13.77	13.21	12.60	
	Power input (kw)	2.85	3.02	3.20	3.40	3.62	3.80	4.04	4.28	4.53	
	EER	5.79	5.34	4.91	4.51	4.09	3.78	3.41	3.08	2.78	
13	Capacity (kw)	17.17	16.85	16.53	16.03	15.58	15.14	14.57	13.90	13.38	
	Power input (kw)	2.87	3.01	3.17	3.39	3.63	3.83	4.07	4.34	4.55	
	EER	5.99	5.60	5.21	4.73	4.30	3.95	3.58	3.20	2.94	
15	Capacity (kw)	17.79	17.32	17.01	16.63	16.20	15.82	15.37	14.59	14.03	
	Power input (kw)	2.84	3.01	3.19	3.38	3.65	3.85	4.07	4.36	4.58	
	EER	6.27	5.76	5.33	4.91	4.44	4.11	3.77	3.35	3.06	
15.6	Capacity (kw)	17.98	17.52	17.16	16.79	16.38	16.02	15.60	14.86	14.23	
	Power input (kw)	2.82	2.98	3.19	3.40	3.65	3.84	4.11	4.35	4.58	
	EER	6.37	5.87	5.38	4.94	4.49	4.18	3.80	3.41	3.10	

Configuration

ALFA LAVAL | PLATE HEAT EXCHANGER



GMCC | COMPRESSOR



NIDEC | DC FAN MOTOR



WILO | CIRCULATION PUMP

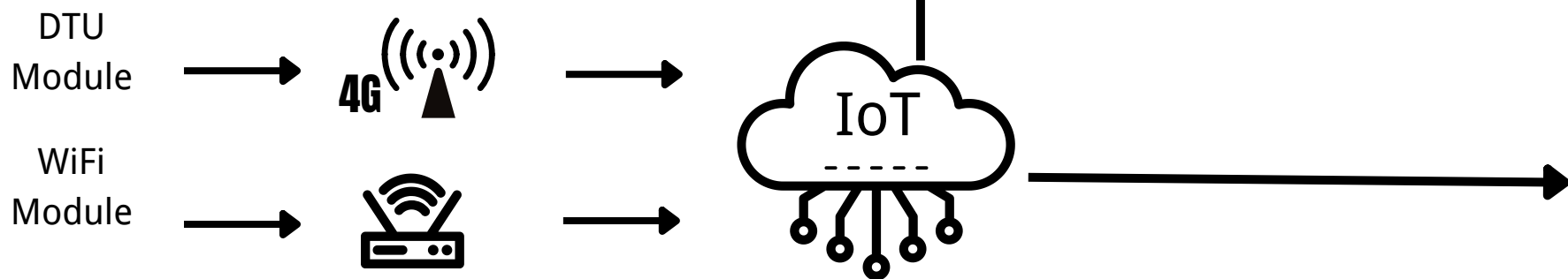


RUKING-EMERSON | DC DRIVER



SENSATA | PRESSURE SENSOR



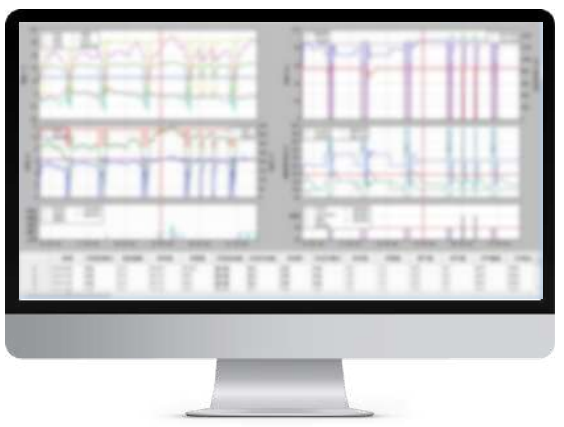


Smart Control Display

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.

APP Remote Control

With DTU Module and Electric Wi-Fi, you can pre-heat or cool a room no matter where you are. Users are able to remotely set water temperature and room temperature, change mode settings and check real-time or history running status via computers (web server) or mobile phone (APP).



IoT System & Remote Diagnostics

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

Solar PV system integrated with Exinda heat pump

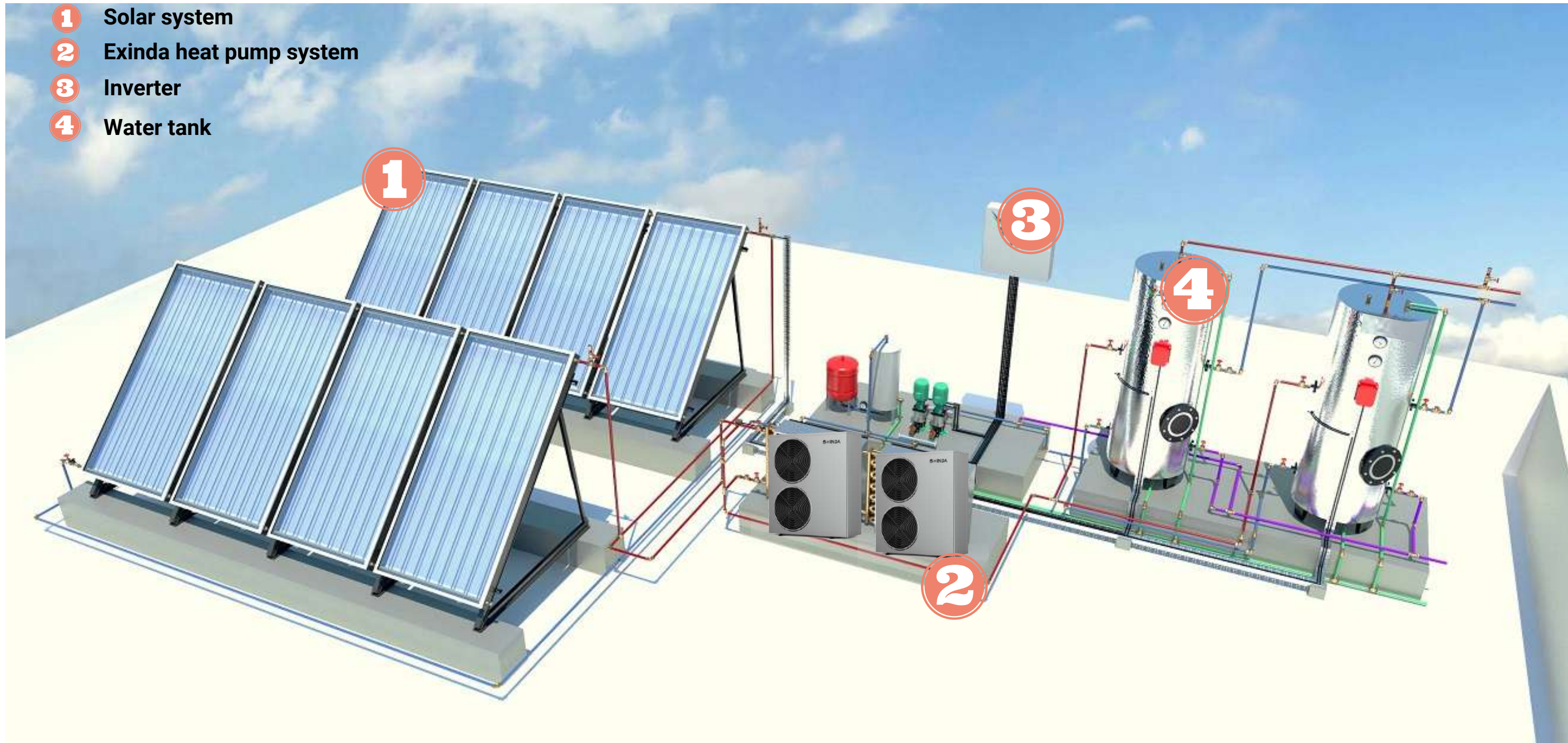
Function:

Hot water (Output flow temperature in 55°C -heating)

Central heating (Output flow temperature in 35°C - heating)

Central cooling (Output flow temperature in 7 °C - Chilling)

- 1** Solar system
- 2** Exinda heat pump system
- 3** Inverter
- 4** Water tank



Easy installation

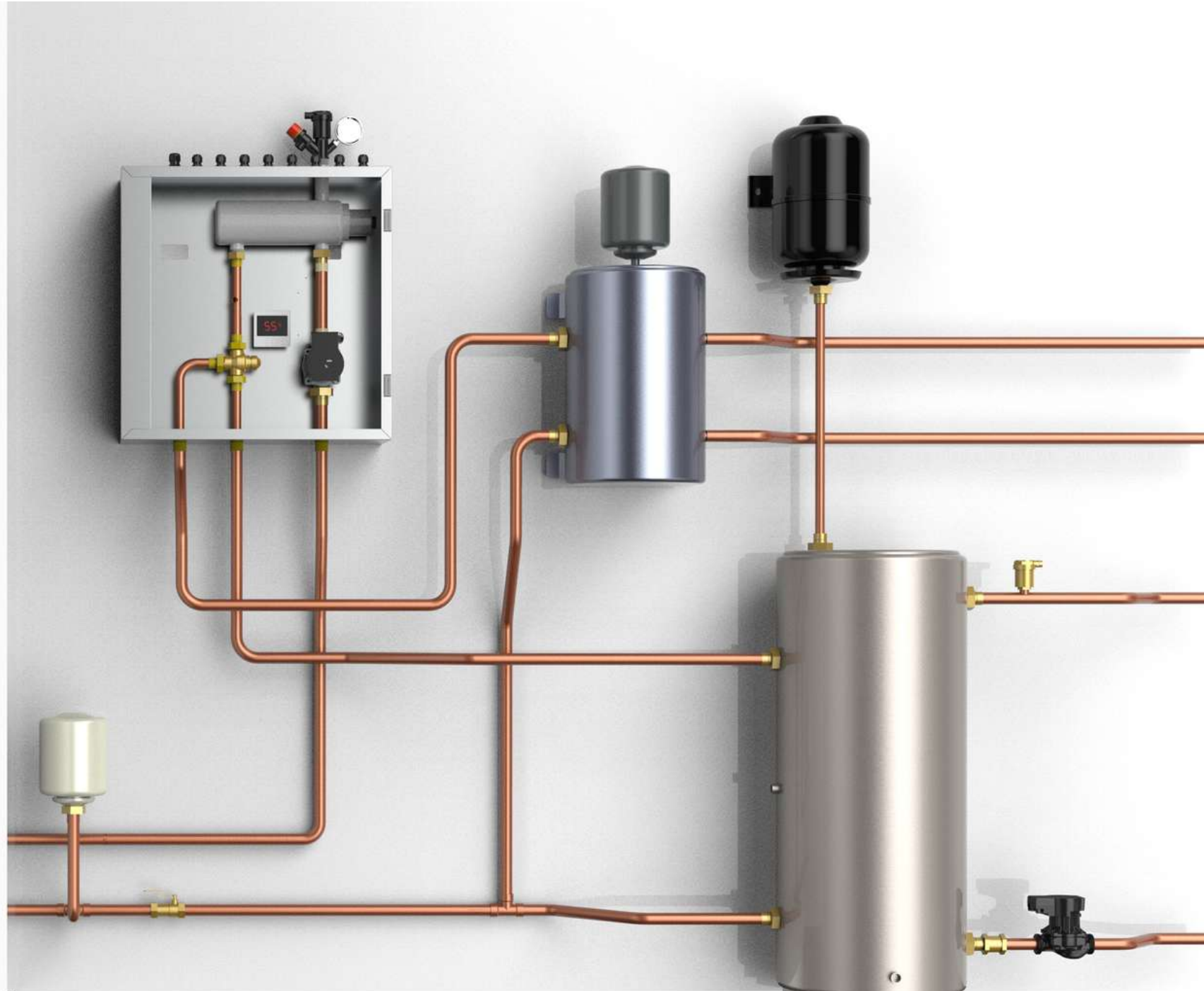
Cost-effective & Time-saving Installation with Exinda Hydrobox System



HYBE

Dimension: 680×630×300mm N.W: 30Kg

Model No.	HYB1	HYB2	HYB3
Standby Electric Heating	3 kw	6 kw	9 kw
Water Pressure Drop	30 kpa	30 kpa	45 kpa
Water Connection	G1"	G 1"	G 1-1/4"
Net Weight	30 kg	30 kg	35 kg
Net Dimension (LxDxH)	625×280×680mm	625×280×680mm	625×280×680mm



Application Guide

The components should be installed in accordance with local regulations and site conditions and additional field supplies such as air vent, manometer, flow meter, and safety fitting.

Type A Achieve Multi-functions



Type B Achieve Single Function

