



Aldeda

H E A T P U M P

Environmentally Friendly Technologies

BigBlue Series



BIGBLUE SERIES

INVERTER COMMERCIAL HEAT PUMP FOR HEATING/COOLING + DHW HOT WATER



R290 Refrigerant



Aldea has always been committed to the concept of green environmental protection and actively shoulders the responsibility of energy conservation and environmental protection. With both low carbon emissions and low GWP, R290 is recognized as the most preferable refrigerant in the industry and its application is perfect to achieving the goal of global carbon neutrality.

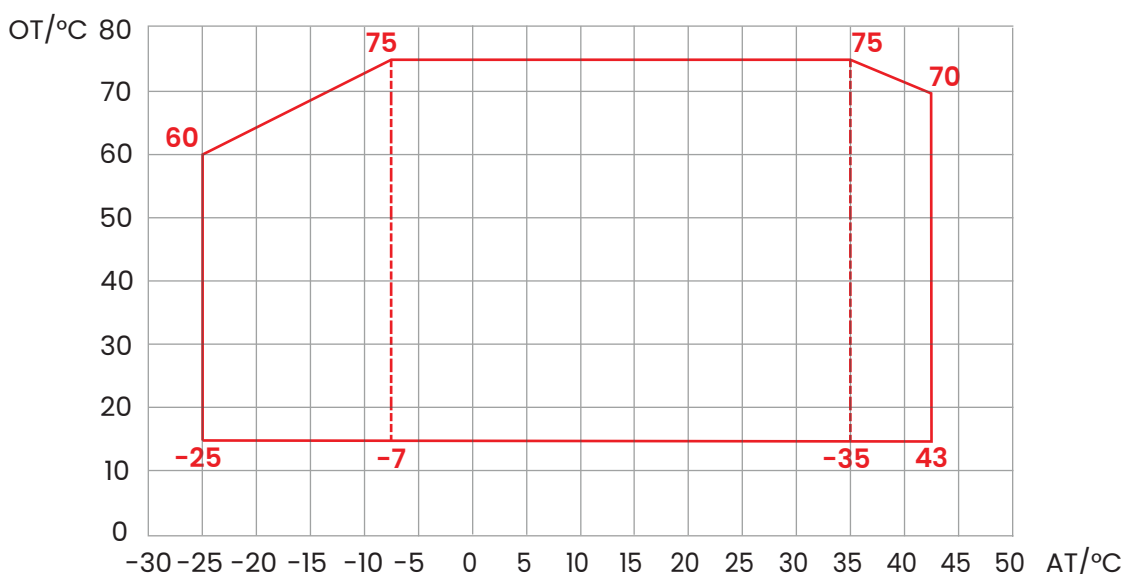


Operation Range



Running safely and reliably all year round, BigBlue Series perfectly combines eco-friendly R290 natural refrigerant and inverter heating technology to ensure optimal performance from -25°C to 43°C . It's worth mentioning that the unit can operate efficiently at -25°C , maintaining high COP, reliable stability and strong heating capacity for 60°C hot water.

More significantly, the maximum supply water temperature can be up to 75°C without back-up heaters to secure protection against legionella. With wide operating range, BigBlue is different from traditional installations. Integrable to operate with solar water heating systems, various gas boiler and electric heater systems.

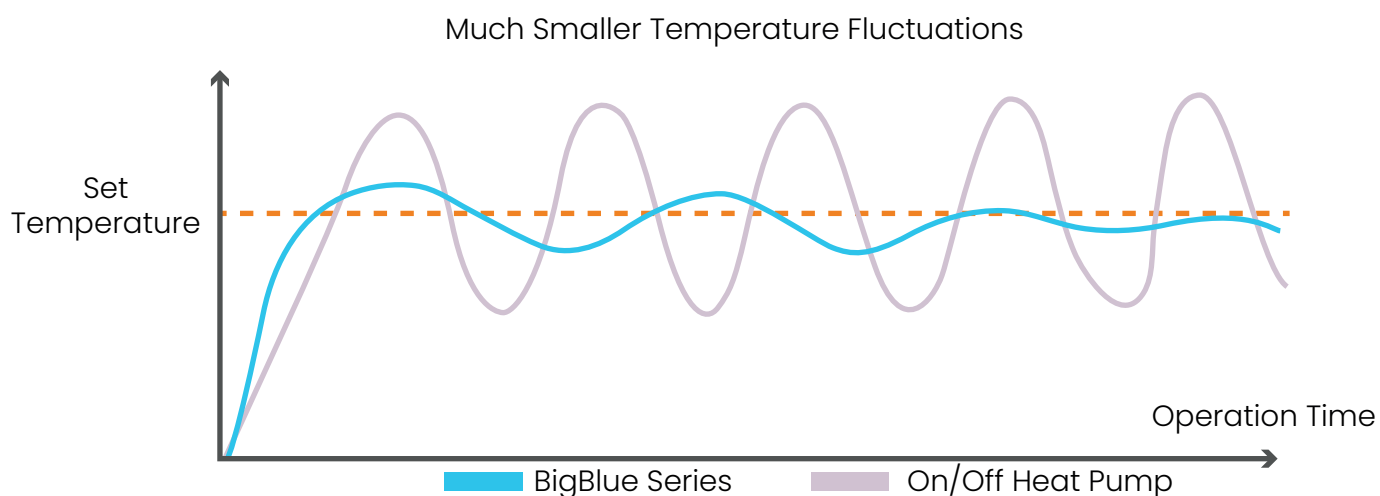




Full DC Inverter Technology

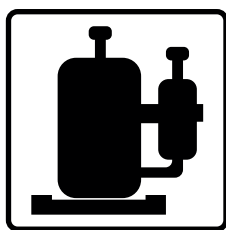
In order to meet the market requirement, ALDEA has made many breakthroughs in core technologies. With the full inverter technology, the units become more energy-efficient, thus saving consumers' energy bills.

Also, when the heat pump is powered on, the current will start from 0A and increase slowly to the rated current without affecting the main electricity line.



DC Inverter Compressor

DC inverter compressor is dedicated for heating & hot water.



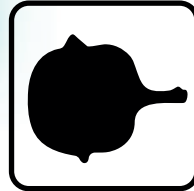
DC INVERTER COMPRESSOR



DC Inverter Motor



A dedicated speed module increases COP and heating performance.



DC INVERTER FAN MOTOR

Better with Design



As one of the leading heat pump manufacturers, ALDEA always aims to forefront manufacturing technology and find the most advanced components to fit our machines.

REFRIGERANT COOLING BOARD

Regarding to refrigerant cooling inverter heat dissipation technology, strong cooling below 55°C

FINNED HEAT EXCHANGER

The capacity of the copper-aluminum fin heat exchanger is increased by 25%.

DOUBLE-WALL PLATE HEAT EXCHANGER

The double-wall plate heat exchanger is certified by WaterMark, which is mandatory for all sanitary products installed in Australia.

RS485 CENTRALIZED CONTROL MODBUS

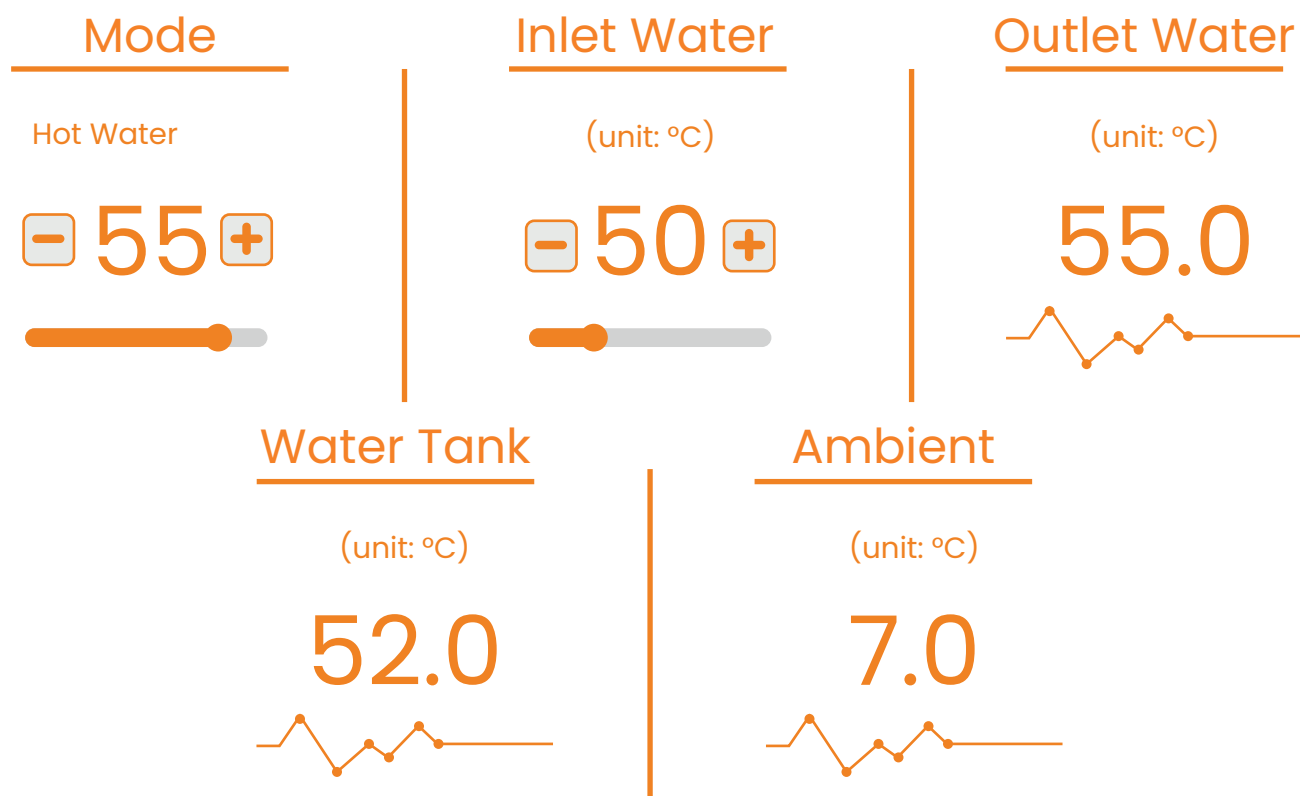
BigBlue Series is highlighted with a central control system as a RS485 serial port is designed for distance controlled operation in every unit.



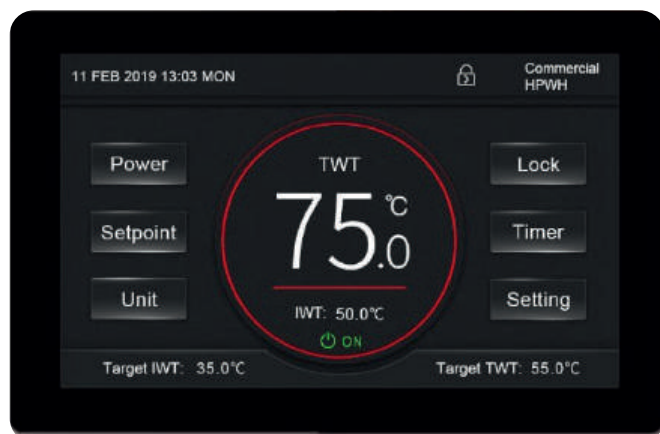
4G-DTU Technology

Fitted with a plug-and-play 4G DTU module, the heat pump can communicate with the web platform via the cloud server. Project managers and technicians can monitor and manage the heat pump at all times.

Aldea's DTU cloud server is located in Europe, ensuring the security and stability of data transmission.



5-inch Color Display



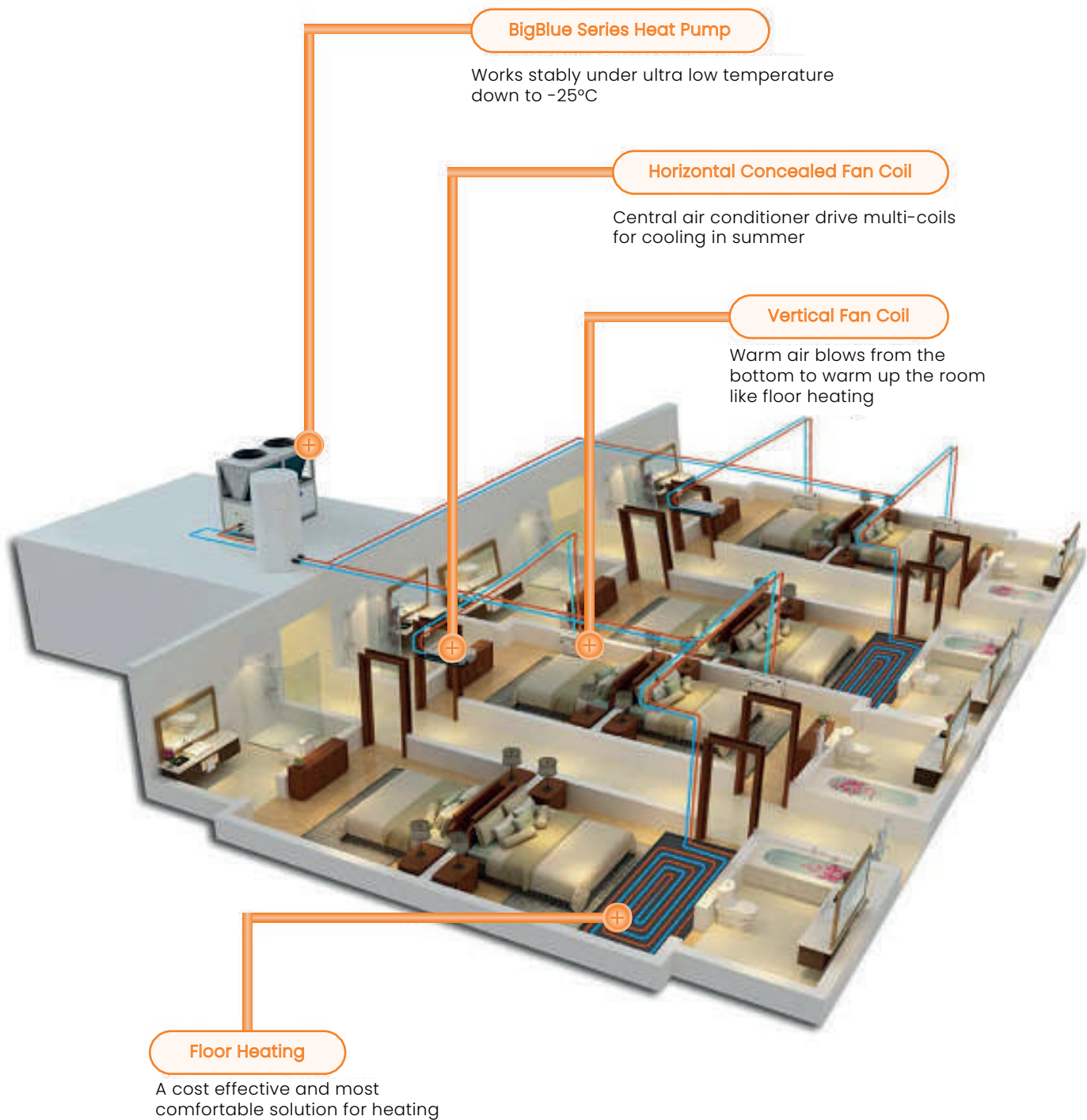
- ✓ Duty Cycling
- ✓ One Plus Four
- ✓ One-key Setting
- ✓ Fault Display
- ✓ Remote Upgrade
- ✓ Temp Timer



Solution for Large-scale Heating and Cooling



Applied to some large-scale public places in cold climate areas for heating and cooling.





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Specifications



BIGBLUE SERIES


ALD-HTIPC30

ALD-HTIPC60

ALD-HTIPC120

DHW Heating Condition - Ambient Temp. (DB/WB): 20/15°C, Water Inlet/Outlet: 15/55°C				
Heating Capacity Range	kW	30	60	120
Heating Power Input Range	kW	6.40	12.90	25.80
COP	W/W	4.68	4.65	4.65
Hot Water Capacity Range	kW	8.20-35.00	16.36-70.00	32.70-140.00
Max. Hot Water Capacity	L/h	750	1500	3000
Heating Condition - Ambient Temp. (DB/WB): 7/6°C, Water Inlet/Outlet: 30/35°C				
Heating Capacity Range	kW	8.00-26.00	13.63-50.00	27.27-100.00
Heating Power Input Range	kW	1.60-7.70	4.36-16.00	8.72-32.00
COP	W/W	3.29-4.79	3.12-4.62	3.12-4.62
Heating Condition - Ambient Temp. (DB/WB): -15°C, Water Inlet/Outlet: 50/55°C				
Heating Capacity Range	kW	3.54-13.00	7.09-26.00	14.18-52.00
Heating Power Input Range	kW	4.80-9.60	5.18-19.00	10.36-38.00
COP	W/W	1.35-1.85	1.36-1.86	1.36-1.86
Cooling Condition - Ambient Temp. (DB/WB): 35°C/24°C, Water Inlet/Outlet: 12/7°C				
Cooling Capacity Range	kW	3.95-14.50	7.63-28.00	15.27-56.00
Cooling Power Input Range	kW	1.96-7.28	3.91-14.35	7.82-28.70
EER	W/W	1.99-3.49	1.95-3.45	1.95-3.45
ERP Level (35°C)	/	A+++	A+++	A+++
ERP Level (55°C)	/	A+++	A+++	A+++
ERP SCOP (65°C)	/	2.80	2.80	2.80
Max. Power Input	kW	9.70	20.00	40.00
Max. Current Input	A	13	25	50
Power Supply	V/Ph/Hz	380-415V/3N~50-60Hz		
Refrigerant	/	R290	R290	R290
Noise	dB(A)	56	60	65
Operating Ambient Temp.	°C	-25~43	-25~43	-25~43
Max. Outlet Water	°C	75		
Fan Motor Quantity	/	2	1	2
Fan Motor Type	/	DC Fan Motor	DC Fan Motor	DC Fan Motor
Water Connection	inch	G1"	G2"	DN65
Refrigerant/Proper Input	g	1300	1500*2	1250*4
CO ₂ Equivalent	Ton	0.0039	0.0075	0.0150
Rated Water Flow	m3/h	6	12	24
Rated Water Pressure Drop	kPa	65	80	100
Net Weight	kg	202	490	733
Gross Weight	kg	223	560	833
Unit Dimension (L/H/W)	mm	1350x540x1330	1195x980x1900	2170x1150x2130
Ship Dimension (L/H/W)	mm	1370x560x1350	1215x1000x1920	2190x1170x2150





 Turkey - Management
Karacaoğlan Mah. 6172. Sok. İzeltaş 3F no:10/2D 35070
Bornova - İzmir - Türkiye

 +90 232 472 00 26

 info@aldea.com.tr

 www.aldea.com.tr

 Europe Headquarters/Sales Office
Adam-Opel-Str-7-11 60386
Frankfurt am Main - Germany

 info@aldea.com.tr

 www.aldeaheatingsystem.com

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