RESIDENTIAL AIR SOURCED HEAT PUMP CHILLER

eco

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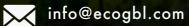
TOWARDS A GREENER & HEALTHIER WORLD

SMART & ECO-FRIENDLY TECHNOLOGICAL-DRIVEN SOLUTIONS FOR GREENER & HEALTHIER WORLD



eco° global industries a Great Britain corporation

ecogbl.com





CORPORATE PROFILE

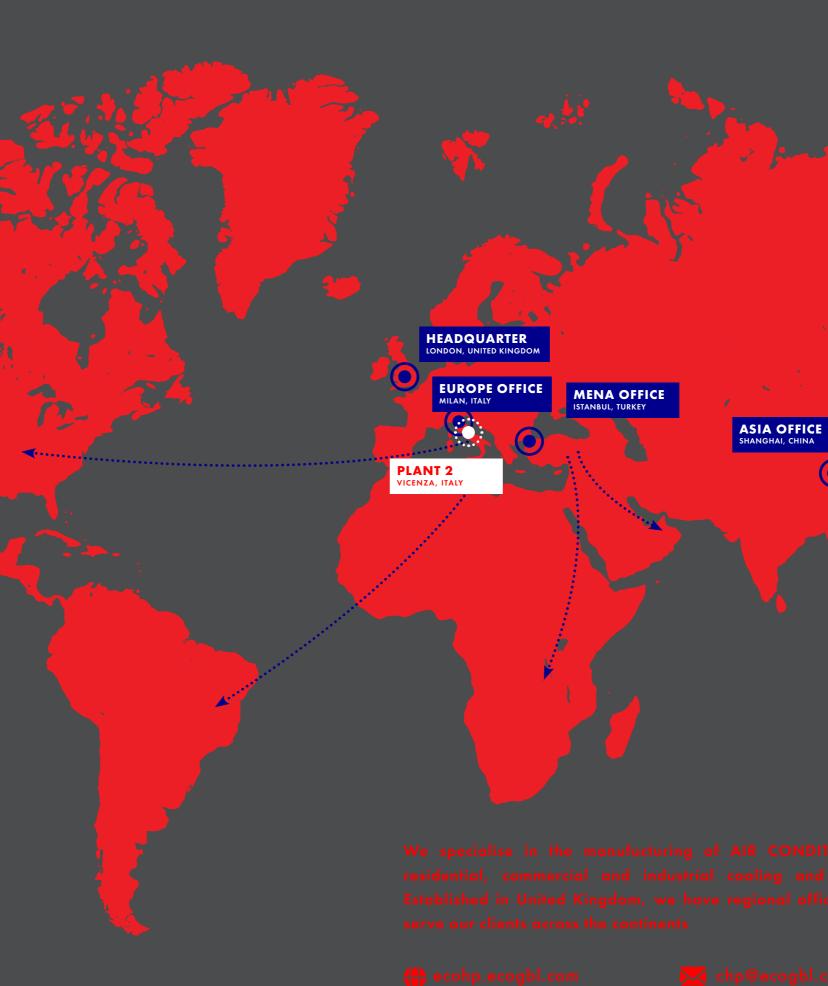
Our eco[°] global industries is an enterprise specialising in products and services across: Energy Sector, Heavy Industries, Technology Sector, Education Sector, Transportation Sector and Lifestyle Sector such as Appliances, Health & Food

eco° focuses on delivering eco-friendly and smart solutions and services to improve lives and safeguard our environment

eco° is committed towards our clients to always deliver design and engineering solutions with great consideration given to our environments. We focus greatly on solving design and engineering challenges with sustainable solutions

MANUFACTURING PLANTS

Our AIR SOURCED HEAT PUMP-CHILLER manufacturing plants are located in: China and Italy, serving our distributors and partners across the continents. With our innovative R&D network, our equipment features latest technology and capable of delivering cooling and heating to challenging climates around the world



PLANT 1 NANJING, CHINA

PRODUCTS LINEUP TECHNOLOGY PROFILE

INVERTER TECHNOLOGY

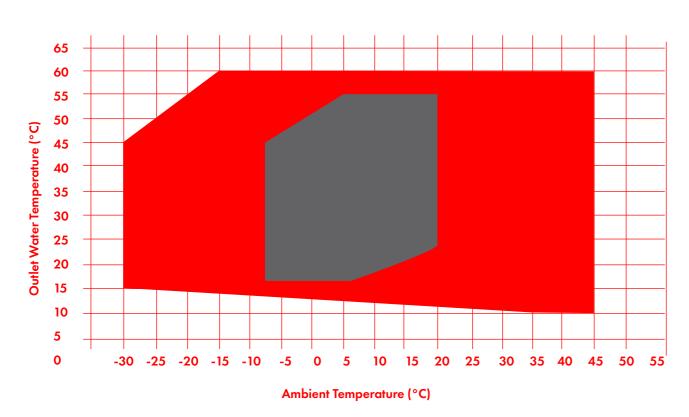
Our Full Inverter Heat Pump utilises variable speed compressor to automatically adjust the output required to achieve the lowest power consumption and maintain the best ambient condition. When the heating or cooling demand is high, the inverter compressor and the fan motor will start running at high speed, inversely the components will run at low speed when the demand reduces.

- + Achieve High COP
- + Short Heating Time
- + Save Energy and Reduces Electricity Bill



Our EVI technology offers stable performance at low (-30°C) ambient conditions, facilitating for wide range of climates around the world, capable of delivering heating and hot water supply all uear around.

- + Wider Ambient Temperature Range for Stable Running
- + 25% Stronger Heating Capacity and 10% Higher COP than Standard Heat Pumps
- + High Water Temperature Outlet
- + Low Noise
- + Low Vibration





TECHNOLOGY PROFILE

ECO PLUS SERIES

PRODUCTS LINEUP

R32 REFRIGERANT

-25°C Inverter EVI, A+++ Energy Level Rating Heating Capacity: 2.3kW to 25.0kW Cooling Capacity: 2.0kW to 15.8kW



ECO STANDARD SERIES

R410a REFRIGERANT

-30°C Inverter EVI, A++ Energy Level Rating Heating Capacity: 1.9kW to 25.1kW Cooling Capacity: 1.6kW to 20.0kW



ECO PRO SERIES

R410a REFRIGERANT



ECO PREMIUM SERIES

R410a R32 REFRIGERANT

INVERTER AIR-TO-WATER HEAT PUMPS

INVERTER AIR-TO-WATER HEAT PUMPS

INVERTER AIR-TO-WATER HEAT PUMPS

-30°C Inverter EVI, A++ Energy Level Rating Heating Capacity: 4.2kW to 41.0kW Cooling Capacity: 3.6kW to 33.1kW

INVERTER AIR-TO-WATER HEAT PUMPS

-25°C Inverter EVI, A++ Energy Level Rating Heating Capacity: 2.3kW to 25.0kW Cooling Capacity: 2.0kW to 15.8kW

R32

eco PLUS

AIR TO WATER HEAT PUMP

High Performance Residential Air Conditioning Solution

Heating Capacity: 2.3kW to 25.0kW Cooling Capacity: 2.0kW to 15.8kW

-25°C INVERTER EVI TECHNOLOGY

Capable of delivering 60°C hot water supply at stable operation condition of -25°C, our EVI INVERTER technology utilises R32 refrigerant to offer eco-friendly and high performance for a wide range of weather climates



DTU (OPTIONAL)

Our ecoPLUS series is engineered with remote data transferring interface to allow for webbased data monitoring

A+++ ENERGY LEVEL

With EVI DC INVERTER technology, our heat pumps can operate with frequency from 30Hz to 90Hz to accommodate for real-time performance adjustment. We can achieve energy level of A+++ according to ErP directive

TECHNICAL DATA

Model		6a	10a	10t	17a	17t	24t
Performance Condition: Outdoor Air 7°C / 6°C, Inlet / Outlet Water 30°C / 35°C							
Heating Capacity	kW	2.3 - 8.3	4.7 - 12.5	4.7 - 12.5	7.0 - 20.5	7.0 - 20.5	10.0 - 25.0
Heating Power Input	kW	0.6 - 1.8	1.1 - 3.4	1.1 - 3.4	1.5 - 6.0	1.5 - 6.0	2.8 - 5.7
Performance Condition: Outdoor Air 35°C / 24°C, Inlet /	Outlet W	ater 12°C / 7°C					
Cooling Capacity	kW	2.0 - 6.1	3.2 - 11.3	3.2 - 11.3	5.5 - 15.5	5.5 - 15.5	6.4 - 15.8
Cooling Power Input	kW	0.7 - 2.2	1.3 - 4.6	1.3 - 4.6	1.5 - 6.0	1.5 - 6.0	3.4 - 6.8
Performance Condition: Outdoor Air 20°C / 15°C, Water	r Circulate	es from 15°C to 55°C					
Hot Water Capacity	kW	3.0 - 9.8	5.8 - 16.2	5.8 - 16.2	9.4 - 24.3	9.4 - 24.3	14.3 - 28.1
Hot Water Power Input	kW	0.6 - 2.4	1.2 - 4.2	1.2 - 4.2	2.1 - 6.4	2.1 - 6.4	3.4 - 7.0
Rated Voltage / Frequency	/	208 / 240V 30 - 90Hz		380 - 460V / 3N 30 - 90Hz	208 / 240V 30 - 90Hz	380 - 460V / 3N 30 - 90Hz	
Max Power Input	kW	2.9	4.6	4.6	7.2	7.2	12.8
Max Current Input	А	13.0	21.5	7.6	33.2	12.0	20.5
Refrigerant / Proper Input	kg	R32 / 1.3kg	R32 / 1.7kg	R32 / 1.6kg	R32 / 2.0kg	R32 / 2.0kg	R32 / 3.4kg
CO ₂ Equivalent	Ton	0.88	1.15	1.08	1.35	1.35	2.30
Sound Pressure Noise (from 1m)	dB(A)	37 - 54	42 - 55	42 - 55	44 - 58	44 - 58	53 - 59
Operating Ambient Temperature	°C	-25 to 43					
Fan Motor Type	/	DC					
Unit Dimension (L/W/H)	mm	1002 x 490 x 805 953 x 460 x 915 997 x 437 x 1315 1178 x 4			1178 x 450 x 1605		
Shipping Dimension (L/W/H)	mm	106 x 500 x 825 1040 x 490 x 920 1070 x 435 x 1340 1210 × 490 x 920				1210 × 490 × 1650	

EVI INVERTER	DTU READY	TOUCH
TECHNOLOGY	(OPTIONAL)	DISPLAY
A+++	INTELLIGENT	-25 ° C
Energy level	DEFROSTING	OPERATION

R410a

eco STANDARD

AIR TO WATER HEAT PUMP

High Performance Residential Air Conditioning Solution

Heating Capacity: 1.9kW to 25.1kW Cooling Capacity: 1.6kW to 20.0kW

0.1°C CONTROL PRECISION

Excels in precision control, our ecoSTANDARD series allows for 0.1 °C temperature adjustment. Our unit can automatically adjust the operating frequency of the compressor to match with the heating and cooling demand.



INTELLIGENT DEFROSTING

Our ecoSTANDARD utilises the pressure sliding defrosting technology to define the optimal condition to start intellient defrosting, which in turns reduce the energy consumption and prevent defrosting errors.

WATER TEMP CURVE

Water Temperature Curve diagram can be generated from the controller to provide easy monitoring of the changes in water flow.

TECHNICAL DATA

Model		6	8	15	25	
Performance Condition: Outdoor Air 7°C / 6°C, Inlet / Outlet Water 30°C / 35°C						
Heating Capacity	kW	1.9 - 6.4	2.5 - 10.8	5.0 - 17.3	7.0 - 25.1	
Heating Power Input	kW	0.6 - 2.0	0.8 - 2.8	1.2 - 4.6	7.0 - 20.0	
Performance Condition: Outdoor Air 35°C / 24°C, Inlet /	Outlet W	′ater 12°C / 7°C				
Cooling Capacity	kW	1.6 - 5.4	2.0 - 10.0	5.0 - 14.5	7.0 - 20.0	
Cooling Power Input	kW	0.6 - 1.9	1.0 - 3.4	1.6 - 5.6	2.5 - 9.0	
Performance Condition: Outdoor Air 20°C / 15°C, Wate	r Circulate	es from 15°C to 55°C				
Hot Water Capacity	kW	3.0 - 9.8	5.8 - 16.2	5.8 - 16.2	9.4 - 24.3	
Hot Water Power Input	kW	0.6 - 2.4	1.2 - 4.2	1.2 - 4.2	2.1 - 6.4	
Rated Voltage / Frequency	/	208 - 240V / 30 - 90Hz		380 - 460V / 3N 30 - 90Hz		
Max Power Input	kW	2.9	4.6	4.6	7.2	
Max Current Input	А	8.7	18.0 + 13.7	27.0	14.0	
Refrigerant / Proper Input	kg	R410a 1.7kg	R410a 2.4kg	R410a 3.2kg	R410a 4.4kg	
CO ₂ Equivalent	Ton	3.55	5.00	6.68	9.19	
Sound Pressure Noise (from 1m)	dB(A)	54	54	58	62	
Compressor	/	Mitsubishi Electric				
Operating Ambient Temperature	°C	-15 to 43		-20 to 52		
Fan Motor Type	/	DC				
Unit Dimension (L/W/H)	mm	1052 x 490 x 790	980 x 465 x 910	990 x 437 x 1315	1135 × 450 × 1588	
Shipping Dimension (L/W/H)	mm	1070 x 510 x 945	1050 x 500 x 1060	1080 x 445 x 1480	1290 × 530 × 1760	

EVI INVERTER	30% ENERGY	TOUCH
TECHNOLOGY	Saving	DISPLAY
A++	INTELLIGENT	0.1°C
Energy level	DEFROSTING	TEMP CONTROL

R410a

eco PRO

AIR TO WATER HEAT PUMP

High Performance Residential Air Conditioning Solution

Heating Capacity: 4.2kW to 41.0kW Cooling Capacity: 3.6kW to 33.1kW

-30°C INVERTER EVI

Our ecoPRO series focus on delivering stable hot water production (at 60°C) even under low ambient condition like -30°C. Our Inverter EVI excels in performance stability as well as high energy saving.



DTU (OPTIONAL)

Our ecoPLUS series is engineered with remote data transferring interface to allow for webbased data monitoring

SUITABLE FOR LIGHT COMMERCIAL

With heating capacity ranges from 4.2kW to 41.0kW and cooling capacity ranges from 3.6kW to 33.1kW, our ecoPRO series is suitable for light commercial applications such as hotels, schools, resort centres, gyms and any other small-medium sized buildings

TECHNICAL DATA

Model		10	14	18	26	30	38
Performance Condition: Outdoor Air 7°C / 6°C, Inlet / Outlet Water 30°C / 35°C							
Heating Capacity	kW	4.2 - 12.0	5.6 - 16.8	7.2 - 20.0	9.8 - 27.3	11.5 - 31.5	15.0 - 41.0
Heating Power Input	kW	12.0 - 4.0	1.6 - 5.6	2.1 - 6.8	3.5 - 10.6	3.4 - 10.5	5.0 - 13.8
Performance Condition: Outdoor Air 35°C / 24°C, Inlet /	Outlet W	ater 12°C / 7°C					
Cooling Capacity	kW	3.6 - 9.6	5.0 - 13.4	6.3 - 16.5	8.3 - 23.1	10.2 - 28.2	11.9 - 33.1
Cooling Power Input	kW	1.2 - 4.0	1.6 - 5.6	2.1 - 6.8	3.5 - 10.6	4.4 - 13.6	5.0 - 13.8
Performance Condition: Outdoor Air 20°C / 15°C, Wate	r Circulate	es from 15°C to 55	5°C				
Hot Water Capacity	kW	5.3 - 13.5	5.8 - 15.1	7.5 - 21.1	10.0 - 27.5	11.8 - 32.0	15.5 - 41.5
Hot Water Power Input	kW	1.5 - 4.3	1.6 - 5.0	2.1 - 7.1	3.7 - 10.8	4.5 - 13.8	5.2 - 14.0
Rated Voltage / Frequency	/	208 - 240V / 30 - 90Hz					
Max Power Input	kW	4.6	4.8	7.0	10.6	13.6	16.0
Max Current Input	A	21.0	21.8	32.0	17.0	25.5	31.2
Refrigerant / Proper Input	kg	R410a 2.2kg	R410a 2.5kg	R410a 2.8kg	R410a 4.5kg	R410a 5.0kg	R410a 6.6kg
CO ₂ Equivalent	Ton	4.59	5.22	5.85	9.40	10.44	13.78
Sound Pressure Noise (from 1m)	dB(A)	38 - 52	40 - 53	42 - 54	44 - 57	44 - 58	45 - 60
Compressor	/	GMCC	Landa	GMCC	Panasonic	Panasonic	Highly
Operating Ambient Temperature	°C	-30 to 52					
Fan Motor Type	/	DC					
Unit Dimension (L/W/H)	mm	955 x 470 x 910 1000 x 440 x 1325		40 x 1325	1170 x 450 x 1600		1700 x 800 x 1685
Shipping Dimension (L/W/H)	mm	1040 x 490 x 1050	1070 x 44	40 x 1470	1240 x 4	50 x 1730	1830 x 910 x 2000

EVI INVERTER	-30°C STABLE	TOUCH
TECHNOLOGY	PERFORMANCE	DISPLAY
A++	HIGH COP	DTU READY
Energy level	Benchmark	(OPTIONAL)

R32 R410a

eco PREMIUM

AIR TO WATER HEAT PUMP

High Performance Residential Air Conditioning Solution

Heating Capacity: 2.3kW to 25.0kW Cooling Capacity: 2.0kW to 15.8kW

INVERTER AIR COOLED HEAT PUMP

Suitable for outdoor installation, our eco PREMIUM series features highly efficient BLDC twin rotary inverter commpressor, allowing for massive energy reduction and durable performance between -10° to 46°C



BLDC TWIN ROTARY INVERTER

Our ecoPLUS series is engineered with remote data transferring interface to allow for webbased data monitoring

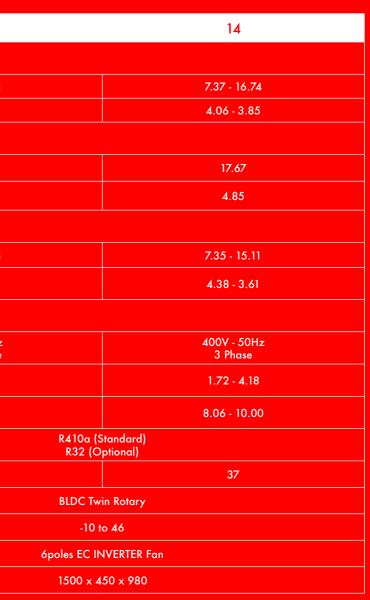
INVERTER EC FAN

Our eco PREMIUM series is equipped with ópoles BLDC brushless motor with internal protection and fan speed control integrated. All components are engineered to increase efficiency, reduce sound level and maximise performance

TECHNICAL DATA

Model		10
Performance Condition: Outdoor Air 7°C / 6°C, Inlet / O	utlet Wat	er 30°C / 35°C
Heating Capacity	kW	3.96 - 11.58
СОР	/	3.72 - 3.53
Performance Condition: Outdoor Air 7°C / 6°C, Inlet / O	utlet Wat	er 40°C / 45°C
Heating Capacity	kW	12.00
СОР	1	4.31
Performance Condition: Outdoor Air 35°C, Inlet / Outlet [\]	Water 12	°C / 7°C
Cooling Capacity	kW	3.81 - 10.33
EER	1	4.22 - 3.23
Performance Condition: Outdoor Air 20°C / 15°C, Wate	r Circulat	es from 15°C to 55°C
Rated Voltage / Frequency	/	230V - 50Hz Single Phase
Nominal Absorbed Power (Max Admissible Conditions)	kW	0.91 - 3.20
Maximum Absorbed Current (Under Nominal Conditions)	A	6.53 - 9.16
Refrigerant	1	
Sound Pressure Noise (from 1m)	dB(A)	32
Compressor	/	
Operating Ambient Temperature	°C	
Fan Motor Type	1	
Unit Dimension (L/W/H)	mm	

INVERTER	-10°C	MADE IN
TECHNOLOGY	PERFORMANCE	Europe
A++	HIGH SCOP	INVERTER
Energy level	Benchmark	EC FAN



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eco[°] global industries corporation specialises in SMART & ECOFRIENDLY air conditioning solutions for residential and commercial and industrial applications





