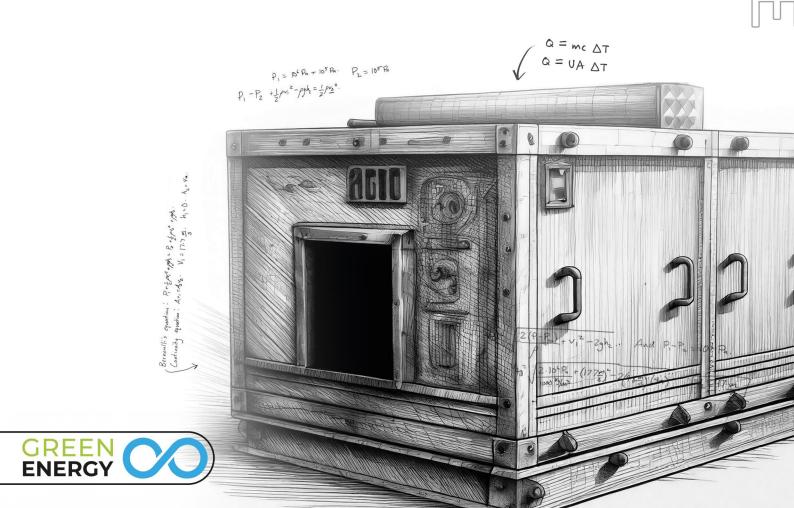
ECO COOLER

HVAC SYSTEMS

2025 **Eco Hybrid Package**







OPTIMAL COOLING





PREMIUM HVAC SOLUTIONS FOR EFFICIENT COOLING AND HEATING

ECO Hybrid Package (EHP), Our innovative HVAC systems are engineered to deliver outstanding performance in environments where power availability is limited and energy savings are crucial. Featuring R410A, a high-efficiency refrigerant, these systems ensure reliable cooling and heating in one compact package. Whether you opt for a rooftop packaged unit, a chiller, or a condensing unit, you can count on low energy consumption, robust performance, and straightforward operation. Designed to cover spaces up to 270 m² even on a single-phase power supply, our solutions are ideal for a wide range of residential and commercial applications.

Key Benefits

- 1- Optimized Power Usage
- · Microchannel Technology: Advanced coil design enhances heat transfer while reducing refrigerant requirements, helping lower utility costs.
- · Evaporative Pre-Cooling: Pre-cools entering air into the condenser, decreasing required power in hot climates and further cutting energy consumption.
- · High-Efficiency R410A Refrigerant: Contributes to superior cooling and heating output with minimal power draw.
- 2- Comprehensive Climate Control
- · Heat Pump Mode: Offers both cooling and heating capabilities, eliminating the need for external systems.
- · Versatile Applications: Ideal for various environments, capable of effectively conditioning spaces up to 270 m² on single-phase power supply and 750 m² on three-phase power supply.



Premium HVAC Solutions for Efficient Cooling and Heating

3- CE-Certified Quality and Reliability

- · Stringent European Standards: Ensures dependable performance, reduced downtime, and proven durability.
- · Built to Last: High-quality components and robust construction minimize the need for frequent maintenance.

4- User-Friendly Design

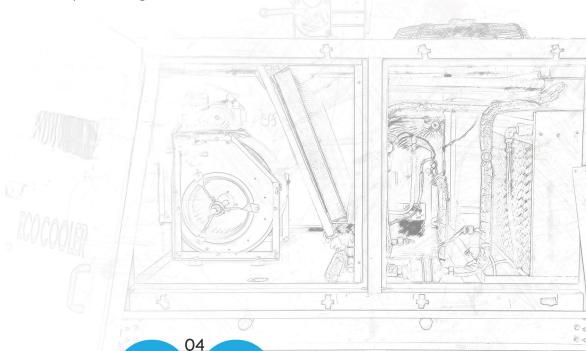
- · Corrosion-Resistant Coils: Aluminum microchannel coils withstand harsh conditions, extending service life.
- · Easy Installation and Maintenance: Thoughtful layout allows for quick setup, inspection, and servicing, even for non-specialists.

5- Optional Solar Integration

- · Sustainable Energy Solution: Tap into renewable solar power to further reduce electricity consumption.
- · Environmentally Responsible: Lower your carbon footprint without compromising on performance.

Tailored for Energy-Limited Settings

Where electricity is scarce or expensive, our HVAC systems offer consistent, high-quality climate control without straining your power resources. Choose from our range of rooftop packaged units, chillers, or condensing units, and enjoy a comfortable indoor environment year-round — backed by modern technology, high efficiency, single-phase compatibility, and an optional solar power add-on.





EVAPORATIVE PRE-COOLING PACKAGE

ECO COOLER evaporative pre-cooling package is an energy-efficient solution designed for comprehensive climate control across various applications.

It features Microchannel Technology, an evaporative pre-cooling system, and high-efficiency **R410A** refrigerant to optimize power usage and lower energy costs.

With heat pump functionality, it offers both cooling and heating, eliminating the need for separate systems. The unit seamlessly integrates with ducting systems for efficient air distribution, effectively conditioning spaces up to 270 m² (single-phase) and 750 m² (three-phase).

Ideal for residential and commercial use, it provides a reliable, cost-effective, and sustainable climate control solution.















Technical Data:

Evaporative Pre-Cooling Package

Model	ERU 3	ERU 4	ERU 5	ERU 7.5	ERU 20		
Cooling capacity* (kW)	7.2	10.7	13	25	70		
Heating capacity** (kW)	6	9	11	23	64		
Total power input (Cooling mode) (kW)	2.2	2.9	3.1	6.1	17.9		
Total power input (Heating mode) (kW)	1.9	2.7	3.2	6.2	17.2		
Total EER (Cooling mode)	3.3	3.8	4.3	4.0	3.9		
Total EER (Heating mode)	3.2	3.5	3.5	3.6	3.7		
Covered floor area (sq.meter)	50~75	80~120	150~200	250~300	450~750		
Compressor							
Туре			Scroll				
Quantity	1	1	1	2	2		
Refrigerant			R410A				
Power input (Cooling mode) (kW)	1.44	1.9	2.1	4.2	12		
Power input (Heating mode) (kW)	1.2	1.7	2.2	4.3	11.3		
Amperage (Cooling mode) (A)	6.3	8.4	9.2	18.5	23.0		
Amperage (Heating mode) (A)	5.1	7.7	9.7	18.7	22.4		
Indoor heat exchanger							
Туре	Microchannel						
Face area (sq.meter)			0.5	1	2		
Indoor fan							
Туре	Forward curved						
Size (mm)	250	300	300	380	450		
Quantity	1	1	1	1	1		
Air flow rate (CMH)	1500	3000	3000	5500	17000		
Control type	Three-speed	Three-speed	Three-speed	Single-speed	Single-speed		
Motor power (kW)	0.45	0.53	0.53	1.15	4.00		
Amperage (A)	2.10	2.45	2.45	5.60	7.40		
Outdoor heat exchanger							
Туре			Microchannel				
Face area (m2)	0.5	0.5	0.5	1	2		
Precooling method	Cellulose pad						
Outdoor fan							
Туре		Axial					
Size (mm)	450	500	500	630	800		
Quantity	1	1	1	1	1		
Air flow rate (CMH)	4000	4500	4500	10000	18000		
Control type	Pressure-based On/Off						
Motor power (kW)	0.29	0.42	0.42	0.74	1.9		
Amperage (A)	1.3	1.7	1.7	2.9	4.1		
Electrical info							
Power supply phase/voltage/ frequency	1P/220V/50Hz	1P/220V/50Hz	1P/220V/50Hz	1P/220V/50Hz	3P/400V/50Hz		
Total amperage (Cooling mode) (A)	8~10	11~13	13~16	26~32	35~40		
Total amperage (Heating mode) (A)	9~11	12~15	14~17	28~34	34~38		
Installation info							
Length x Width x Height (cm)	156 x 117 x 110	156 x 117 x 110	156 x 117 x 110	245 x 125 x 146	245 x 220 x 146		
Operating weight (kg)	300	305	315	500	805		

 $^{^{*}}$ Cooling capacity rating is based on: ambient dry/wet bulb temperature of 46 C/22 $^{\circ}\text{C}$ - Return dry/wet bulb temperature of 27 C/19 $^{\circ}\text{C}$

ECO COOLER reserves the right to modify technical information at any time without prior notice.



 $^{^{**}}$ Heating capacity rating is based on: ambient dry/wet bulb temperature of 7 C/6 $^{\circ}$ C - Return dry/wet bulb temperature of 20 C/14 $^{\circ}$ C



CHILLER-HEAT PUMP

ECO COOLER Chiller heat pump is a multi-functional system that provides both cooling and heating, ensuring consistent comfort and substantial energy savings.

It incorporates advanced microchannel technology, an evaporative pre-cooling system, and high-efficiency R410A refrigerant to reduce energy consumption.

The system offers reliable climate control with a heat pump mode, supplying chilled water at 7 °C for cooling and hot water at 45 °C for heating, perfect for fan coil units.

Suitable for residential, commercial, and industrial spaces up to 650 m², it integrates smoothly with piping systems for optimal air distribution.

Environmentally friendly and energy-efficient, it provides top-tier performance even in extreme climates, ensuring a low-maintenance, cost-effective solution.

















Technical Data:

Evaporative Pre-Cooling Package

Cooling capacity* (kW) 5 8 11 22 60 Heating capacity** (kW) 4 7 10 20 58 Total power input (Heating mode) (kW) 2.4 3.2 3.7 7.3 18.4 Total EER (Cooling mode) 1.9 2.0 2.8 2.7 3.1 Covered floor area (sq.meter) 1.9 2.0 2.8 2.7 3.1 Covered floor area (sq.meter) 1.9 2.0 2.8 2.7 3.1 Covered floor area (sq.meter) 1.9 2.0 2.8 2.7 3.1 Covered floor area (sq.meter) 1.0 1.0 2.0 2.0 2.0 3.1 4.0 4.0 2.0<	Model	EACH 3	EACH 4	EACH 5	EACH 7.5	EACH 20		
Total power input (Cooling mode) (kW) 2.0 2.3 2.6 4.9 13.9 Total power input (Heating mode) (kW) 2.4 3.2 3.7 7.3 18.4 Total EER (Cooling mode) 2.7 3.4 4.2 4.5 4.3 Total EER (Heating mode) 120 120 2.8 2.7 3.1 Covered floor area (sq.meter) 120 120 120 240 400°-650 Covered floor area (sq.meter) 120 120 220 2.8 2.0 3.0 Covered floor area (sq.meter) 120 120 120 220 <t< td=""><td>Cooling capacity* (kW)</td><td>5</td><td>8</td><td>11</td><td>22</td><td>60</td></t<>	Cooling capacity* (kW)	5	8	11	22	60		
Total Eprocerinput (Heating mode) (AW) 2.4 3.2 3.7 7.3 18.4 Total EER (Cooling mode) 2.7 3.4 4.2 4.5 4.3 Total EER (Heating mode) 1.9 2.0 2.20 2.20 3.0 Covered floor area (squeete) 1.0 120 120 120 20 400°650 Covered floor area (squeete) 1.0 120 120 2.0 400°650 Covered floor area (squeete) 1.0 1.0 1.0 1.0 2.0 2.0 Cover (squeete) 1.6 1.1 1 2.0	Heating capacity** (kW)	4	7	10	20	58		
Total EER (Cooling mode) 2.7 3.4 4.2 4.5 4.3 Total EER (Heating mode) 1.9 2.0 2.8 2.7 3.1 Covered floor area (sq.meter) 120 120 200 240 400~650 Compressor Scroll Type Quantity 1 1 1 2 2 Refrigerant Ref104 Power input (Cooling mode) (kW) 1.68 1.9 2.17 4.2 12 Power input (Heating mode) (A) 7.4 8.4 9.5 19.0 6.6 16.5 Amperage (Cooling mode) (A) 7.4 8.4 9.5 19.0 2.2 12 Power input (Heating mode) (A) 7.4 8.4 9.5 19.0 2.2 12 Amperage (Heating mode) (A) 9.1 12.3 13.8 27.0 29.2 2.2 Heat exchanger 1 1 1 1 1 1 1 1 1 1	Total power input (Cooling mode) (kW)	2.0	2.3	2.6	4.9	13.9		
Total EER (Heating mode) 1.90 1.20 1.20 1.20 2.40 2.40 4.00	Total power input (Heating mode) (kW)	2.4	3.2	3.7	7.3	18.4		
Covered floor area (sq. neter) 120 120 240 400°650 Compressor Type Scroll Quantity 1 1 1 2 2 Refrigerant FRATICAL STATE S	Total EER (Cooling mode)	2.7	3.4	4.2	4.5	4.3		
Compressor Formal Section	Total EER (Heating mode)	1.9	2.0	2.8	2.7	3.1		
Type Seroll Quantity 1 1 2 2 Refrigerant R410A Power input (Cooling mode) (kW) 1.68 1.9 2.17 4.2 12 Power input (Heating mode) (kW) 2.1 2.8 3.3 6.6 16.5 Amperage (Cooling mode) (A) 7.4 8.4 9.5 19.0 23.0 Amperage (Heating mode) (A) 9.1 12.3 13.8 27.0 29.2 Heat exchanger Type Braze/plate heat exchanger Quantity 1 2 2 2 2 2 2 2 2 2 2	Covered floor area (sq.meter)	120	120	120	240	400~650		
Quantity 1 1 1 2 2 Refrigerant FALIDA RALIDA ALIDA 12 12 Power input (Cooling mode) (kW) 1.68 1.9 2.17 4.2 12 Power input (Heating mode) (kW) 2.1 2.8 3.3 6.6 16.5 Amperage (Cooling mode) (A) 7.4 8.4 9.5 19.0 23.0 Amperage (Heating mode) (A) 9.1 12.3 13.8 27.0 29.2 Metate Exchanger Type Type <td>Compressor</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Compressor							
Refrigerant Refrigerant Ref10A 1.68 1.9 2.17 4.2 12 Power input (Heating mode) (kW) 2.1 2.8 3.3 6.6 16.5 Amperage (Cooling mode) (A) 7.4 8.4 9.5 19.0 23.0 Amperage (Heating mode) (A) 9.1 12.3 13.8 27.0 29.2 Heat exchanger Type Braze plate heat exchanger Type O.81 1.21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3	Type			Scroll				
Power input (Cooling mode) (kW)	Quantity	1	1	1	2	2		
Power input (Heating mode) (kW) 2.1 2.8 3.3 6.6 16.5 Amperage (Cooling mode) (A) 7.4 8.4 9.5 19.0 23.0 Amperage (Heating mode) (A) 9.1 12.3 13.8 27.0 29.2 Heat exchanger Type Braze dplate heat exchanger Quantity 1 2 2 2 2 2 2 3 9 9 2 3 3 9 2 3 3 9 2 3 3 9 2	Refrigerant	R410A						
Amperage (Cooling mode) (A) 7.4 8.4 9.5 19.0 23.0 Amperage (Heating mode) (A) 9.1 12.3 13.8 27.0 29.2 Heat exchanger Type Brazet plate heat exchanger Quantity 1 2 2 2 2 2 2 2 2 3 3 9 9.23 3 3 9 2.3 3 9 2.3 3 9 2.3 3 9 2.3 3 9 2.3 3 9 2.3 3 9 2.3 <t< td=""><td>Power input (Cooling mode) (kW)</td><td>1.68</td><td>1.9</td><td>2.17</td><td>4.2</td><td>12</td></t<>	Power input (Cooling mode) (kW)	1.68	1.9	2.17	4.2	12		
Amperage (Heating mode) (A) 9.1 12.3 13.8 27.0 29.2 Heat exchanger Type Brazed plate heat exchanger Quantity 1 2 2 2 0 <	Power input (Heating mode) (kW)	2.1	2.8	3.3	6.6	16.5		
Heat exchanger Type Brazet plate heat exchanger Quantity 1 1 1 1 1 1 Water flow rate (CMH) 0.81 1.21 1.69 3.39 9.23 Outdoor heat exchanger Type Microchannet Face area (m2) 0.5 0.5 0.5 1 2 Precooling method Cellulose pad Outdoor fan Type Axial Size (mm) 450 500 500 630 800 Quantity 1 2 0 7	Amperage (Cooling mode) (A)	7.4	8.4	9.5	19.0	23.0		
Type Brazed plate heat exchanger Quantity 1 2 0 <td< td=""><td>Amperage (Heating mode) (A)</td><td>9.1</td><td>12.3</td><td>13.8</td><td>27.0</td><td>29.2</td></td<>	Amperage (Heating mode) (A)	9.1	12.3	13.8	27.0	29.2		
Quantity 1 1 1 1 1 1 Water flow rate (CMH) 0.81 1.21 1.69 3.39 9.23 Outdoor heat exchanger Type Face area (m2) 0.5 0.5 0.5 1 2 Precooling method Cellulose pad Outdoor fan Type Axial Size (mm) 450 500 500 630 800 Quantity 1 2 2 2 2 </td <td>Heat exchanger</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Heat exchanger							
Water flow rate (CMH) 0.81 1.21 1.69 3.39 9.23 Outdoor heat exchanger Type Microchannel Face area (m2) 0.5 0.5 1 2 Precooling method Outdoor fan Type Axial Size (mm) 450 500 500 630 800 Quantity 1 1 1 1 1 Air flow rate (CMH) 4000 4500 4500 10000 18000 Control type Pressure-based On/Off Motor power (kW) 0.29 0.42 0.42 0.74 1.9 Amperage (A) 1.3 1.7 1.7 2.9 4.1 Electrical info Power supply phase/voltage/ frequency 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 3P/400V/50Hz Total amperage (Reating mode) (A) 7°9 8°12 11°14 22°28 27°30 Total amperage (Heating mode) (A) 8°10 10°14 16°18 32°36<	Type		Braze	ed plate heat exc	changer			
Outdoor heat exchanger Microchannel Type Microchannel Face area (m2) 0.5 0.5 1 2 Precooling method Cellulose pad Outdoor fan Axial Type Axial Size (mm) 450 500 500 630 800 Quantity 1 2 2 1 2	Quantity	1	1	1	1	1		
Type Microchannel Face area (m2) 0.5 0.5 1 2 Precooling method Cellulose pad Outdoor fan Type Axial Size (mm) 450 500 500 630 800 Quantity 1 2 2	Water flow rate (CMH)	0.81	1.21	1.69	3.39	9.23		
Face area (m2) 0.5 0.5 1 2 Precooling method Cellulose pad Outdoor fan Axial Type Axial Size (mm) 450 500 500 630 800 Quantity 1 2 1 1 1 </td <td>Outdoor heat exchanger</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Outdoor heat exchanger							
Precooling method Cellulose pad Outdoor fan Type Axial Size (mm) 450 500 500 630 800 Quantity 1 <t< td=""><td>Type</td><td></td><td></td><td>Microchannel</td><td></td><td></td></t<>	Type			Microchannel				
Outdoor fan Axial Type Axial Size (mm) 450 500 500 630 800 Quantity 1 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	Face area (m2)	0.5	0.5	0.5	1	2		
Type Axial Size (mm) 450 500 500 630 800 Quantity 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Precooling method			Cellulose pad				
Size (mm) 450 500 500 630 800 Quantity 1 1 1 1 1 1 Air flow rate (CMH) 4000 4500 4500 10000 18000 Control type Pressure-based On/Off Motor power (kW) 0.29 0.42 0.42 0.74 1.9 Amperage (A) 1.3 1.7 1.7 2.9 4.1 Electrical info Power supply phase/voltage/ frequency 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 3P/400V/50Hz Total amperage (Cooling mode) (A) 7°9 8~12 11~14 22~28 27~30 Total amperage (Heating mode) (A) 8~10 10~14 16~18 32~36 33~36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Outdoor fan							
Quantity 1 2 0 0 1 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 1 2 2 2 1 1<	Туре		Axial					
Air flow rate (CMH) 4000 4500 4500 10000 18000 Control type Pressure-based On/Off Motor power (kW) 0.29 0.42 0.42 0.74 1.9 Amperage (A) 1.3 1.7 1.7 2.9 4.1 Electrical info Power supply phase/voltage/ frequency 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 3P/400V/50Hz Total amperage (Cooling mode) (A) 7~9 8~12 11~14 22~28 27~30 Total amperage (Heating mode) (A) 8~10 10~14 16~18 32~36 33~36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Size (mm)	450	500	500	630	800		
Control type Pressure-based On/Off Motor power (kW) 0.29 0.42 0.42 0.74 1.9 Amperage (A) 1.3 1.7 1.7 2.9 4.1 Electrical info Power supply phase/voltage/ frequency 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 3P/400V/50Hz Total amperage (Cooling mode) (A) 7°9 8°12 11°14 22°28 27°30 Total amperage (Heating mode) (A) 8°10 10°14 16°18 32°36 33°36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Quantity	1	1	1	1	1		
Motor power (kW) 0.29 0.42 0.42 0.74 1.9 Amperage (A) 1.3 1.7 1.7 2.9 4.1 Electrical info Power supply phase/voltage/ frequency 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 3P/400V/50Hz Total amperage (Cooling mode) (A) 7~9 8~12 11~14 22~28 27~30 Total amperage (Heating mode) (A) 8~10 10~14 16~18 32~36 33~36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Air flow rate (CMH)	4000	4500	4500	10000	18000		
Amperage (A) 1.3 1.7 1.7 2.9 4.1 Electrical info V Power supply phase/voltage/ frequency 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 3P/400V/50Hz Total amperage (Cooling mode) (A) 7°9 8°12 11°14 22°28 27°30 Total amperage (Heating mode) (A) 8°10 10°14 16°18 32°36 33°36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Control type	Pressure-based On/Off						
Electrical info Power supply phase/voltage/ frequency 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 3P/400V/50Hz Total amperage (Cooling mode) (A) 7~9 8~12 11~14 22~28 27~30 Total amperage (Heating mode) (A) 8~10 10~14 16~18 32~36 33~36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 120 225 x 117 x 130	Motor power (kW)	0.29	0.42	0.42	0.74	1.9		
Power supply phase/voltage/ frequency 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 1P/220V/50Hz 3P/400V/50Hz Total amperage (Cooling mode) (A) 7~9 8~12 11~14 22~28 27~30 Total amperage (Heating mode) (A) 8~10 10~14 16~18 32~36 33~36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Amperage (A)	1.3	1.7	1.7	2.9	4.1		
Total amperage (Cooling mode) (A) 7~9 8~12 11~14 22~28 27~30 Total amperage (Heating mode) (A) 8~10 10~14 16~18 32~36 33~36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Electrical info							
Total amperage (Heating mode) (A) 8~10 10~14 16~18 32~36 33~36 Installation info Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Power supply phase/voltage/ frequency	1P/220V/50Hz	1P/220V/50Hz	1P/220V/50Hz	1P/220V/50Hz	3P/400V/50Hz		
Installation info 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Total amperage (Cooling mode) (A)	7~9	8~12	11~14	22~28	27~30		
Length x Width x Height (cm) 78 x 117 x 110 78 x 117 x 110 78 x 117 x 110 112 x 117 x 120 225 x 117 x 130	Total amperage (Heating mode) (A)	8~10	10~14	16~18	32~36	33~36		
	Installation info							
Operating weight (kg) 203 216 227 369 659	Length x Width x Height (cm)	78 x 117 x 110	78 x 117 x 110	78 x 117 x 110	112 x 117 x 120	225 x 117 x 130		
	Operating weight (kg)	203	216	227	369	659		

 $^{^{*}}$ Cooling capacity rating is based on: ambient dry/wet bulb temperature of 46 C/22 $^{\circ}\text{C}$ - Return dry/wet bulb temperature of 27 C/19 $^{\circ}\text{C}$

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 $^{^{**}}$ Heating capacity rating is based on: ambient dry/wet bulb temperature of 7 C/6 $^{\circ}$ C - Return dry/wet bulb temperature of 20 C/14 $^{\circ}$ C



DUCT SPLIT

ECO COOLER duct split is a dual-purpose system designed for both cooling and heating, providing year-round comfort and energy efficiency.

It features microchannel technology for enhanced heat transfer, an evaporative pre-cooling system to improve performance in hot climates, and a high-efficiency R410A refrigerant for minimal environmental impact.

Compatible with duct split systems, it distributes cold or warm air efficiently across spaces up to 650 m², and integrates seamlessly with piping systems.

Suitable for residential, commercial, and industrial applications, it ensures optimal performance, reduced operational costs, and environmental sustainability — making it a low-maintenance, energy-saving solution.











Technical Data:

Condensing Unit-Heat Pump

Model	ECU 3	ECU 4	ECU 5	ECU 7.5	ECU 20		
Cooling capacity* (kW)	7.2	10.7	13	26	70		
Heating capacity** (kW)	6	9	10	20	64		
Total power input (Cooling mode) (kW)	1.7	2.3	2.6	4.9	13.5		
Total power input (Heating mode) (kW)	1.5	2.2	3.7	7.3	13.7		
Total EER (Cooling mode)	4.1	4.6	4.9	5.3	5.2		
Total EER (Heating mode)	4.3	4.3	2.8	2.7	4.7		
Covered floor area (sq.meter)	120	120	120	240	400~650		
Compressor							
Туре			Scroll				
Quantity	1	1	1	2	2		
Refrigerant	R410A	R410A	R410A				
Power input (Cooling mode) (kW)	1.44	1.9	2.14	4.2	11.6		
Power input (Heating mode) (kW)	1.2	1.7	3.3	6.6	11.8		
Amperage (Cooling mode) (A)	6.3	8.4	9.4	19.0	22.5		
Amperage (Heating mode) (A)	5.1	7.7	13.8	27.0	23.0		
Outdoor heat exchanger							
Туре	Microchannel						
Face area (m2)	0.5	0.5	0.5	1	2		
Precooling method			Cellulose pad				
Outdoor fan							
Туре			Axial				
Size (mm)	450	500	500	630	800		
Quantity	1	1	1	1	1		
Air flow rate (CMH)	4000	4500	4500	10000	18000		
Control type	Pressure-based On/Off						
Motor power (kW)	0.29	0.42	0.42	0.74	1.9		
Amperage (A)	1.3	1.7	1.7	2.9	4.1		
Electrical info							
Power supply phase/voltage/ frequency	1P/220V/50Hz	1P/220V/50Hz	1P/220V/50Hz	1P/220V/50Hz	3P/400V/50Hz		
Total amperage (Cooling mode) (A)	7~8	8~10	11~14	22~28	27~30		
Total amperage (Heating mode) (A)	5~6	7~9	16~18	32~36	33~36		
Installation info							
Length x Width x Height (cm)	78 x 117 x 110	78 x 117 x 110	78 x 117 x 110	112 x 117 x 120	225 x 117 x 130		
Operating weight (kg)	193	206	207	344	626		

 $^{^{*}}$ Cooling capacity rating is based on: ambient dry/wet bulb temperature of 46 C/22 $^{\circ}\text{C}$ - Return dry/wet bulb temperature of 27 C/19 $^{\circ}\text{C}$

ECO COOLER reserves the right to modify technical information at any time without prior notice.



^{**} Heating capacity rating is based on: ambient dry/wet bulb temperature of 7 C/6 $^{\circ}\text{C}$ - Return dry/wet bulb temperature of 20 C/14 $^{\circ}\text{C}$





SOLAR SYSTEMS



%30 - %50



****20 - **30**

We offer an optional feature called the Solar System that can be integrated with **ECO Hybrid Package units.** By adding this solar-powered system, the efficiency of the units increases by up to 50% during winter and 30% in summer, significantly reducing energy consumption and saving costs.

This system utilizes specialized solar panels that operate with refrigerants to enhance the performance of compressors and condensers.

In addition to improving energy efficiency, it minimizes the emission of harmful gases, ensuring a more sustainable operation. The Solar System not only optimizes the functionality of the **HVAC** units but also protects the ecosystem by reducing environmental impact.

Other advantages include lower long-term operational costs, reduced dependency on conventional energy sources, and contribution to global efforts in combating climate change. This innovation makes our units more eco-friendly while maintaining superior performance year-round.



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FOR CHOOSING US TO CREATE CLEAN AIR AND COMFORTABLE LIVING SPACES.

We remain committed to delivering the best for your health and well-being.

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