

Specification

| Outdoor Unit | | | CLP-V5HW/DR4 | CLP-V8HW/DR4 | CLP-V10HW/DR4 | CLP-V12HW/DR4 | CLP-V14HW/DZR4 | CLP-V16HW/DZR4 |
|---|--------------------|----|------------------------------|----------------|----------------|----------------|----------------|----------------|
| Indoor Unit | | | CLP-V8HN/DR4 | CLP-V8HN/DR4 | CLP-V12HN/DR4 | CLP-V12HN/DR4 | CLP-V16HN/DR4 | CLP-V16HN/DR4 |
| Performance Data | | | | | | | | |
| Heating Capacity/COP(A7°C/W35°C) | kW/COP | | 5.29/3.67 | 8.26/3.61 | 10.8/3.84 | 12.84/3.80 | 15.26/3.65 | 17.28/3.64 |
| Heating Capacity/COP(A7°C/W55°C) | kW/COP | | 3.90/2.47 | 6.14/2.42 | 9.6/2.74 | 11.4/2.71 | 13.58/2.61 | 15.36/2.6 |
| Heating Capacity/COP(A-7°C/W35°C) | kW/COP | | 5.15/3.34 | 8.04/3.29 | 10.2/2.88 | 12.12/2.85 | 14.42/2.74 | 16.32/2.73 |
| Heating Capacity/COP(A-7°C/W55°C) | kW/COP | | 3.95/2.17 | 6.20/2.13 | 7.11/1.73 | 8.42/1.70 | 11.2/1.83 | 12.64/1.82 |
| Heating Capacity/COP(A-15°C/W35°C) | kW/COP | | 4.38/2.39 | 6.83/2.36 | 8.5/2.41 | 10.2/2.41 | 12.04/2.3 | 13.6/2.9 |
| Heating Capacity/COP(A-15°C/W55°C) | kW/COP | | 2.86/1.79 | 4.49/1.76 | 6.75/1.63 | 7.99/1.61 | 10.64/1.73 | 12/1.72 |
| Heating Capacity/EER(A35°C/W7°C) | kW/EER | | 4.5/2.7 | 6.5/2.8 | 8.5/2.8 | 10/2.7 | 13.8/2.82 | 15.2/2.81 |
| Heating Capacity/EER(A35°C/W18°C) | kW/EER | | 4.2/3.8 | 6.5/3.8 | 8.5/4.8 | 10/4.8 | 13.8/4.8 | 15.2/4.8 |
| Seasonal Energy Efficiency(W35°C/W55°C) | SCOP(kW) | | 4.73/3.29 | 4.42/3.24 | 5.15/3.35 | 4.34/3.33 | 4.08/3.33 | 4.07/3.38 |
| Heating Average Climate | ETA(%) | | 189.14/131.65 | 176.8/129.6 | 203/131.1 | 170.6/130.2 | 160.2/130.2 | 159.7/132.1 |
| Seasonal Space Heating Energy eff.Class (Average Climate General) Water Outlet | 35°C | | A+++ | A+++ | A++ | A++ | A++ | A++ |
| | 55°C | | A++ | A++ | A++ | A++ | A++ | A++ |
| Hydronic Model | | | | | | | | |
| Power Supply | V/N/Hz | | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| Sound Power Level | dB(A) | | 45 | 45 | 45 | 45 | 45 | 45 |
| Dimension(W*H*D) | mm | | 490*910*340 | 490*910*340 | 490*910*340 | 490*910*340 | 490*910*340 | 490*910*340 |
| Packing((W*H*D) | mm | | 620*1105*425 | 620*1105*425 | 620*1105*425 | 620*1105*425 | 620*1105*425 | 620*1105*425 |
| Net/Gross Weight | kg | | 47/55 | 47/55 | 48/56 | 48/56 | 48/56 | 48/56 |
| Water Pipe Connector(Inlet/Outlet) | mm | | DN32/DN32 | DN32/DN32 | DN32/DN32 | DN32/DN32 | DN32/DN32 | DN32/DN32 |
| Water Pump | | | Variable Speed | Variable Speed | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| Capacity of Electric Heater | kW | | 3 | 3 | 3 | 3 | 3 | 3 |
| Max.power Input | kW | | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| Max.current Input | A | | 17 | 17 | 17 | 17 | 17 | 17 |
| Outdoor Unit | | | | | | | | |
| Power Supply | V/N/Hz | | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 380-415/3/50 | 380-415/3/50 |
| Sound Pressure Level | dB(A) | | 64 | 66 | 68 | 68 | 70 | 70 |
| Max.power Input | kW | | 2.86 | 4.2 | 5.0 | 5.0 | 5.5 | 6.4 |
| Max.current Input | A | | 13 | 19 | 22 | 22 | 10.5 | 12.1 |
| Dimension(W*H*D) | mm | | 935*702*382 | 935*702*382 | 1032*810*445 | 1032*810*445 | 1014*1430*450 | 1014*1430*450 |
| Packing((W*H*D) | mm | | 975*770*435 | 975*770*435 | 1075*875*495 | 1075*875*495 | 1095*1545*485 | 1095*1545*485 |
| Net/Gross Weight | kg | | 47/51 | 55/58 | 56.3/61 | 63.5/68 | 124/138 | 124/138 |
| Air Flow | m³/h | | 3200 | 3200 | 4000 | 4000 | 6100 | 6100 |
| Pipe Diameter | mm | | Ø9.52/Ø15.88 | Ø9.52/Ø15.88 | Ø9.52/Ø15.88 | Ø9.52/Ø15.88 | Ø9.52/Ø15.88 | Ø9.52/Ø15.88 |
| Max.piping Length/Height Difference | m | | 20/10 | 20/10 | 20/10 | 50/20 | 50/20 | 50/20 |
| Refrigerant | Type/Quantity | kg | R32/1.1 | R32/1.4 | R32/3.0 | R32/3.1 | R32/3.6 | R32/3.8 |
| | Additional Charge | g | (Total Pipe Length-5)m*30g/m | | | | | |
| Ambient | Cooling | °C | -5~46°C | | | | | |
| Temperature | Heating | °C | -28~43°C | | | | | |
| Range | Domestic Hot Water | °C | -28~43°C | | | | | |
| Water | Cooling | °C | 5~25°C | | | | | |
| Temperature | Heating | °C | 25~60°C | | | | | |
| Range | Domestic Hot Water | °C | 40~60°C | | | | | |

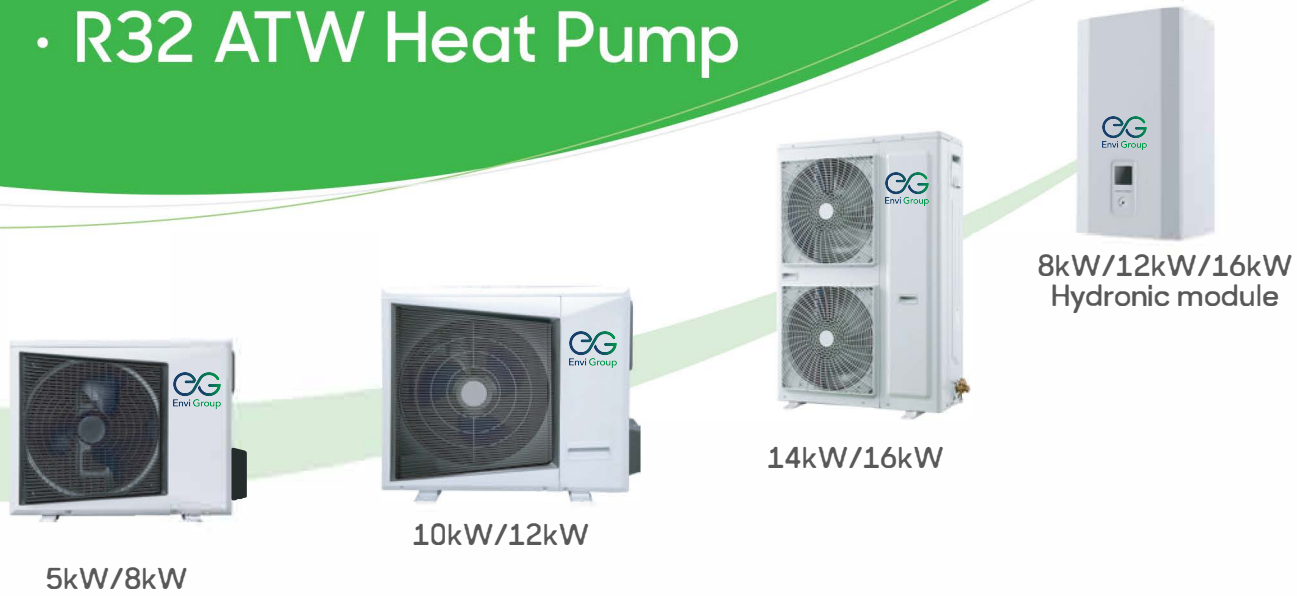
Note: Integrated value takes into consideration the capacity drop during frosting and defrosting periods. The capacity is tested in free frequency situation.



Split Type R32 ATW Heat Pump

The Greenest Solution In Heating & Hot Water

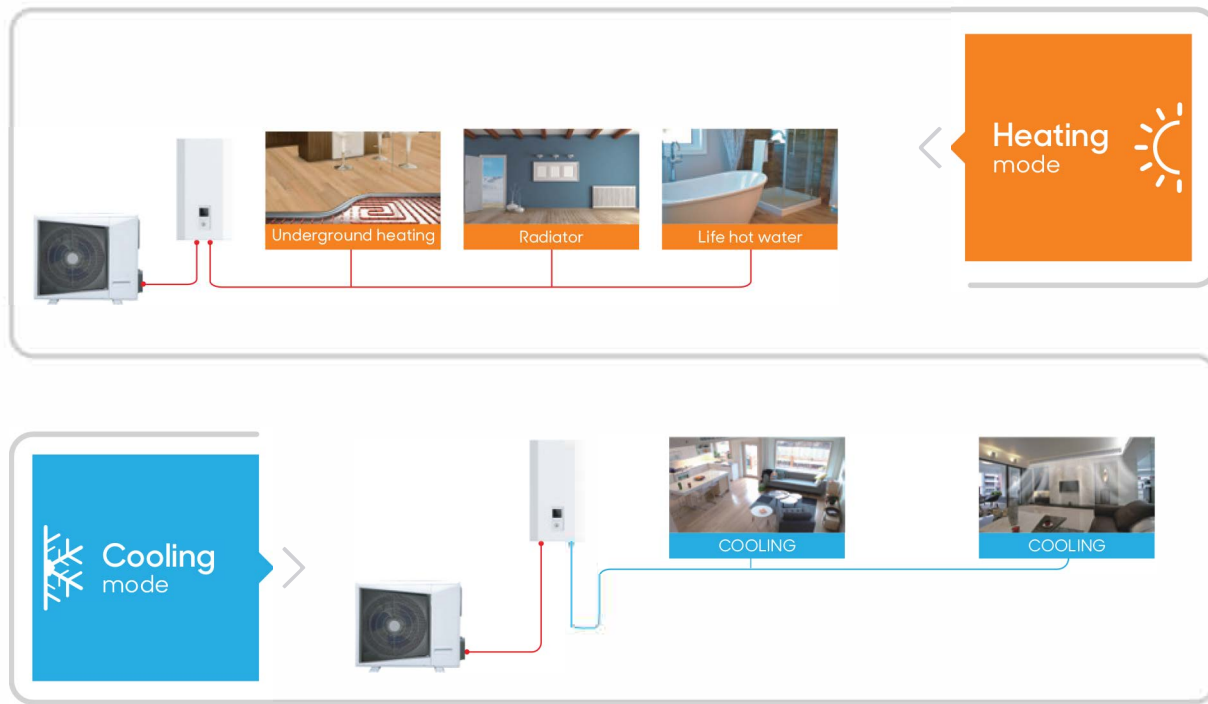
R32 ATW Heat Pump



Features

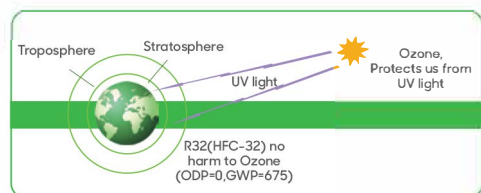
Multi Applications In One System

Heating, cooling and domestic hot water produced with a single system, domestic hot water could be used for floor heating and radiator too.



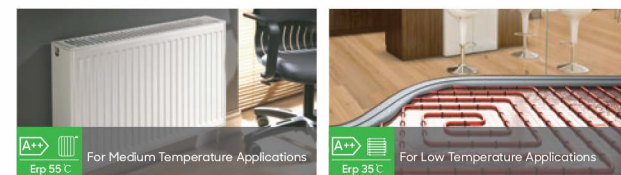
Eco Friendly

R32(HFC-32) refrigerant with 0 ODP and 675GWP, low carbon footprint, no harm to the Ozone.



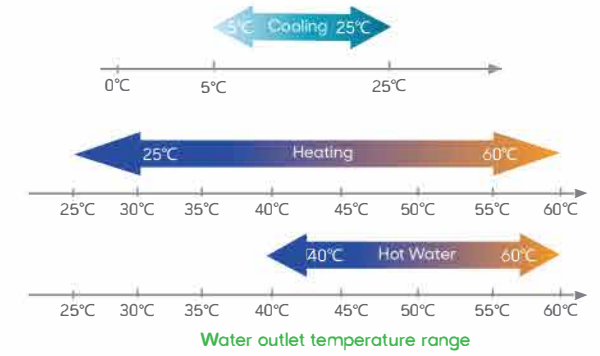
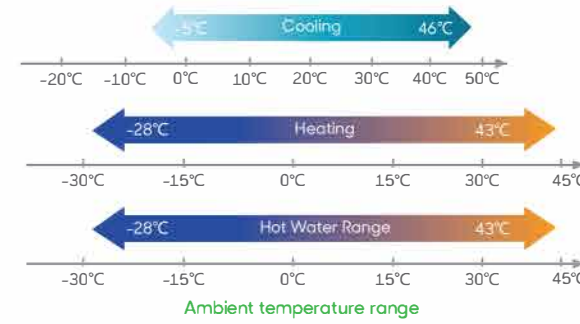
High Efficiency

ATW heat pumps are relying on a renewable energy for their functioning, the increased use of renewable energy will also reduce our energy dependency.



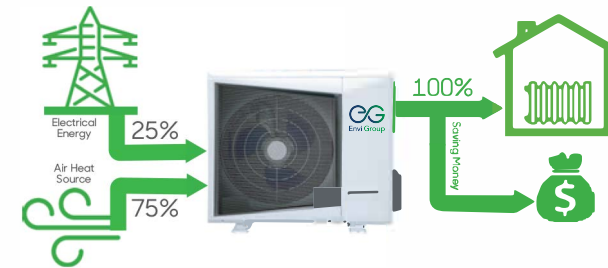
Wide Operation Range

- Cooling operating temperature is up to 46°C
- Heating operating temperature is down to -28°C



Capture Energy From Ambient Air

Based on Air to Water heat pump technology, it captures heat energy from the ambient air and transfers it to heat the water that is used to warm your home and supply domestic hot water, it can even cool your home as required. Compared to other technologies, up to 75% of the heat energy required is taken from the ambient air.

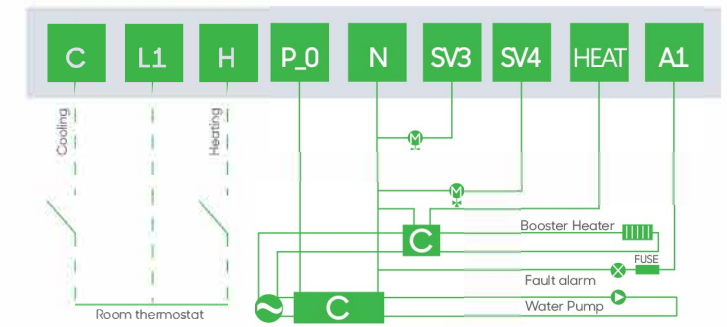


Hydronic Module Components



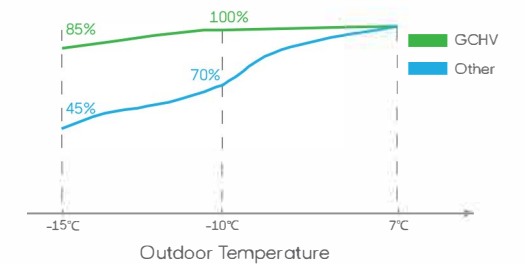
Variable Accessory Connection

- Connect to room thermostat
- Connect to 2-way valve and 3-way valve, to change the water flow direction
- Connect to booster heater to control the heater in DHW tank
- Connect to additional circulation water pump
- Alarm output



High Performance At Low Ambient Temperature

Thanks to the high compression ratio compressor, large heat exchanger and high-precision system control, it is able to maintain a high heat ty and even at -10°C and -15°C.



Controllers



- Window design, easy to operate and view
- Standard with touch screen wired controller, more functions can be realized and it is easier to operate.
- Controller can be took away from hydronic module, and an additional cover is provided



- Mode control
- Weekly timer function
- Electric heater
- Forced defrosting
- Sterilization
- Anti-freezing protection