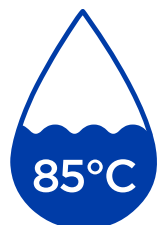


HYUNDAI

Air to Water Heat Pump



BIG Mono **R290 All Inverter** **Air Source Heat Pump**





Efficient and Versatile

- Product capability: 26/30/35 kW
- Minimum operating ambient temperature: -25°C
- Maximum outlet water temperature: 85°C
- Maximum DHW (domestic hot water) temperature : 70°C
- Energy efficiency ratings of A+++ (at 35°C water outlet temperature)
- Energy efficiency ratings of A++ (at 55°C water outlet temperature)



Environmentally friendly

Natural Refrigerant R290



- Much lower GWP value to meet EU carbon neutrality
- No ozone depletion potential
- Excellent thermodynamic performance
- Great thermal efficiency for most conditions

GWP=3

Lower impact on
global warming

ODP=0

Neutral for the
ozone layer



Easy to use

Color-screen Smart Controller

- A temperature display that is accurate to $\pm 0.1^{\circ}\text{C}$ and has a high resolution
- Multiple operating modes including heating, cooling, and DHW (domestic hot water)
- Timing options for daily and weekly schedules to meet different needs



Daily timer



Silent mode



Holiday mode



Disinfection



Water pump



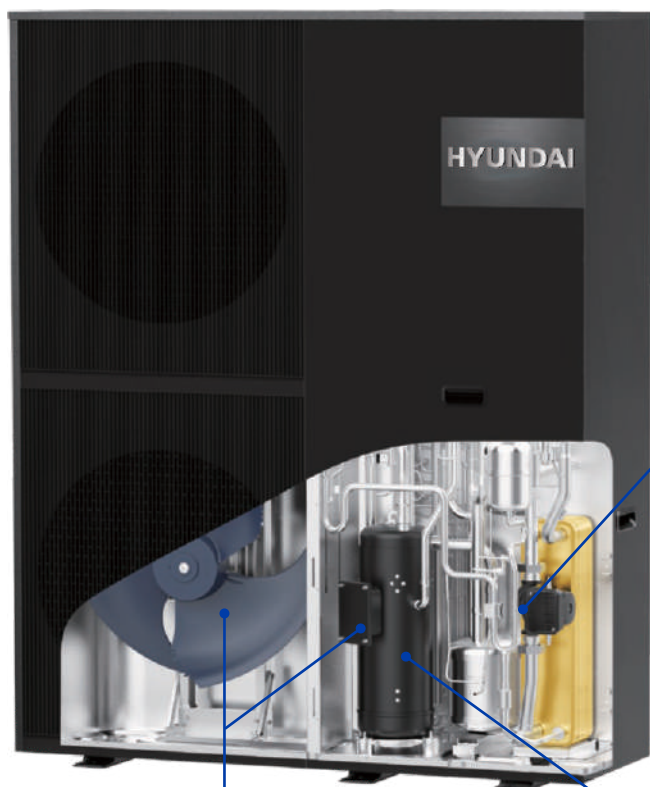
Weekly timer



Defrost



Anti-freezing
function



Advanced configurations

Inverter Water Pump

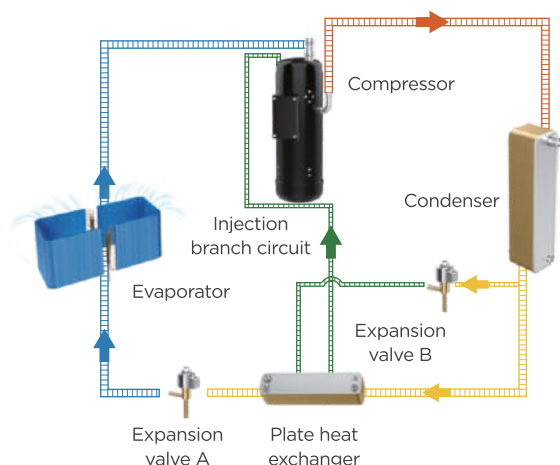
- Adaptive adjustment to the optimal target temperature difference
- Combine efficiency with user comfort
- The power consumption of water pump transmission and distribution can be reduced by 70%

Inverter Fan and Compressor

- Precise water temperature control ($\pm 0.1^{\circ}\text{C}$)
- Adaptive and efficient operation throughout the operating range

R290 Dedicated Inverter EVI Scroll Compressor

- Low temperature heating performance improved by 20%
- Condensation temperature is up to 85°C , and the unit has a higher outlet water temperature



EVI(Enhanced vapor injection) technology

- Increase refrigerant circulation of heat pump at low ambient temperature
- Improve low temperature heating capacity and energy efficiency

Discharge superheat degree
Suction superheat degree



Main valve

Discharge temperature
Injection pressure



Auxiliary valve

Discharge Temperature Control Technology through Gas-Liquid Mixture Injection

- Control the proportion of liquid injection to ensure that the exhaust temperature is controlled within 110°C
- When the unit runs at -15°C ambient temperature, the outlet temperature can reach 85°C
- When the unit runs at -25°C ambient temperature, the outlet temperature can reach 75°C

Specifications

| Model name | | | HYHC-V35WD2RN7 | HYHC-V30WD2RN7 | HYHC-V26WD2RN7 |
|--|----------------------|---------|----------------------|----------------|----------------|
| Heating (A7/W35) | Capacity | kW | 35.0 | 30.0 | 26.0 |
| | Rated input | kW | 8.43 | 6.67 | 5.45 |
| | COP | | 4.15 | 4.50 | 4.77 |
| Cooling (A35/W18) | Capacity | kW | 35.0 | 30.0 | 26.0 |
| | Rated input | kW | 8.82 | 6.80 | 5.60 |
| | EER | | 3.97 | 4.41 | 4.64 |
| Seasonal space heating energy efficiency class | Water outlet at 35°C | ηs | 184.9% | 198.6% | 195.7% |
| | | class | A+++ | A+++ | A+++ |
| | | SCOP | 4.70 | 5.04 | 4.97 |
| Power supply | | V/Ph/Hz | 380-415/3/50 | | |
| Compressor | Type | | Scroll Type | | |
| Outdoor fan | Motor type | | DC brushless motor | | |
| | Number of fans | | 2 | | |
| | Air flow | m³/h | 10500 | | |
| Air side heat exchanger | Type | | Finned tube | | |
| Water side heat exchanger | Type | | Plate heat exchanger | | |
| Connection of water side | Dimension | mm | DN25 | | |
| | Method | | Threaded connection | | |
| Water pump | Type | | Canned-motor pump | | |
| | Max. pump head | m | 12 | | |
| Expansion vessel | Volume | L | 8 | | |
| | Charge pressure | MPa | 0.15 | | |
| Safety valve | | MPa | 0.3 | | |
| Water flow range | | m³/h | 0.87-7.20 | | |
| Refrigerant | Type | | R290 | | |
| | Charged volume | kg | 2.9 | | |
| Throttle type | | | EEV | | |
| sound power Level ¹ | Heating A7/W35 | dB(A) | 76.4 | | |
| | Cooling A35/W18 | dB(A) | 76.3 | | |
| Unit dimension (W×H×D) | | mm | 1384*1816*523 | | |
| Packing dimension (W×H×D) | | mm | 1465*1986*560 | | |
| Net/Gross weight | | kg | 245/265 | | |
| Outdoor air temperature range | Cooling | °C | -15～48 | | |
| | Heating | °C | -25～35 | | |
| | DHW | °C | -25～46 | | |
| Water outlet temperature setting range | Cooling ² | °C | 0～25 | | |
| | Heating | °C | 25～85 | | |
| | DHW | °C | 20～75 | | |

Note:
1. Parameters may change with product updates, based on the machine nameplate.
2. Antifreeze liquid is needed when water outlet temperature reaches 5°C.

