

# Ultima Eco

SERIES

## Ultima Eco - sustainable comfort within reach

NØRDIS Ultima Eco is a next-generation air-to-water heat pump designed to deliver sustainable, energy-efficient heating and cooling throughout the year. Powered by advanced inverter technology and the environmentally friendly R290 natural refrigerant, it provides outstanding performance while reducing energy consumption and environmental impact. Intelligent capacity control continuously adjusts the system output to match the building's heating demand, ensuring maximum comfort and optimal efficiency.






## FEATURES

### ENERGY EFFICIENCY CLASS

A+++/ A+++

Inverter technology provides the highest A+++/A+++ energy rating.

### ECO-FRIENDLY R290 REFRIGERANT

R290

It has zero ozone depletion potential and an extremely low global warming potential (GWP 3).

### SG-READY

SG Ready

The control technology can respond to external control signals from the network.

### MULTI FUNCTIONAL CONTROLLER

Easy-to-use color touchscreen supports advanced features.

### QUIET OPERATION

Quiet operation guarantees a peaceful environment and quality sleep.

### TIMER SETTING

It operates automatically based on usage habits.

### HOLIDAY MODE

Protects the unit from freezing while you are away by automatically heating the water when its temperature drops too low, provided the power supply remains on.

### CONTROL OF ELECTRIC HEATERS

Smart and economical two-stage electric heater control.

### HEATING/COOLING CURVES

For economical operation.

### MANUAL DEFROSTING

Allows you to manually start a defrost cycle during heating or hot water production.

### CASCADE OPERATION

One control panel manages up to 8 units in a single cascade system.

### HOT WATER MAINTENANCE

Timer and priority hot water control with a disinfection function.

### MODBUS

Seamless integration with Building Management Systems (BMS) for smart buildings.

# NØRDIS Ultima Eco Mono Outdoor Units

FOR RESIDENTIAL USE

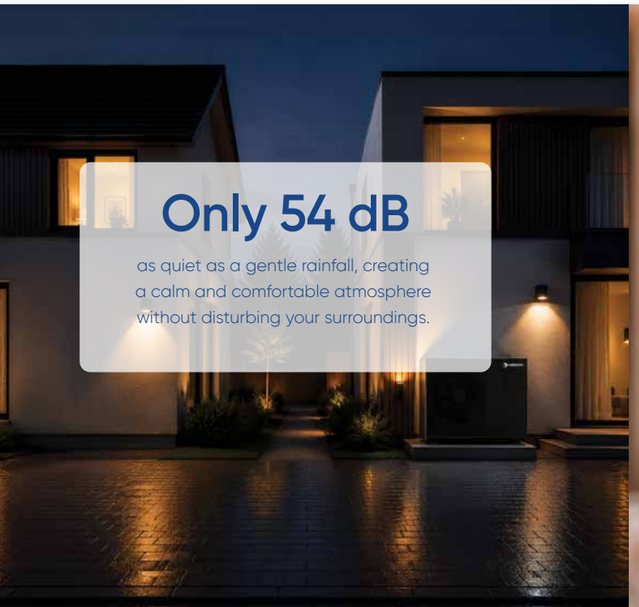





R290 | WiFi | A+++

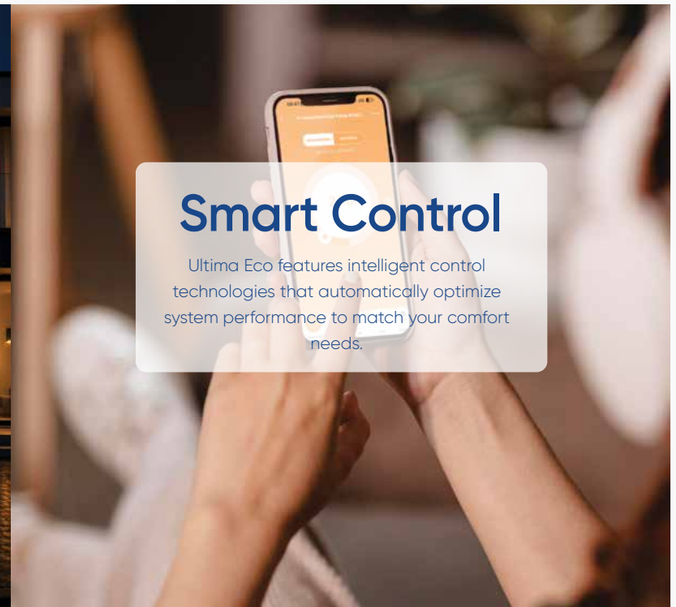
## Features

- Advanced inverter technology for optimized energy efficiency.
- Environmentally friendly R290 natural refrigerant
- Maximum leaving water temperature of 75°C.
- Ultra-quiet operation for enhanced comfort.
- Intelligent anti-freeze protection for reliable winter performance.
- Built-in Wi-Fi remote control via mobile app.
- Standard Modbus BMS integration.
- A+++ seasonal energy efficiency.
- Reliable operation in ambient temperatures down to −25°C.
- Cascade operation capability.
- Weekly timer and multilingual controller.
- Modern minimalist design that blends seamlessly with contemporary architecture.



## Only 54 dB

as quiet as a gentle rainfall, creating a calm and comfortable atmosphere without disturbing your surroundings.



## Smart Control

Ultima Eco features intelligent control technologies that automatically optimize system performance to match your comfort needs.

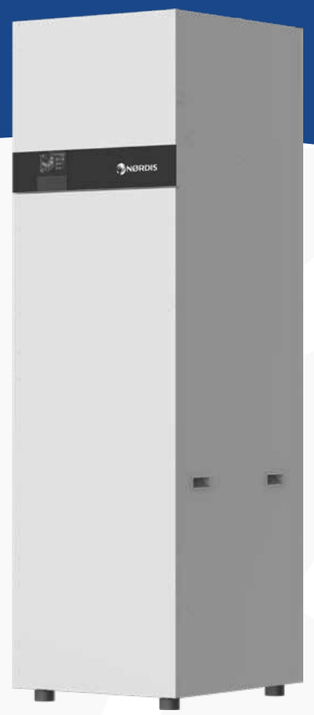
| Outdoor Unit Model | | | | HLE07MONO1S | HLE09MONO1S |
|---|---|---|---|---|---|
| Seasonal Energy (according to EN14825:2022) | | | | | |
| ErP | Energy Class-Heating (35°C / 55°C) | | | A+++ / A+++ | |
| | SCOP (35°C / 55°C) | | | 5,21 / 3,84 | 4,69 / 3,83 |
| | SEER (18°C / 7°C) | | | 9,28 / 5,98 | 8,31 / 5.39 |
| | Rated Heat Output (Prated) (35°C / 55°C) | | kW | 7,2 / 6,8 | 9,2 / 8,4 |
| | Seasonal Space Heating Efficiency (35°C / 55°C) | | % | 206 / 151 | 185 / 150 |
| | Annual Energy Consumption (35°C / 55°C) | | kWh | 2928 / 3589 | 4020 / 4576 |
| | Sound Power Level (Full load) | | dB(A) | 54 | 56 |
| Nominal Capacity and Nominal Input (according to EN14511:2022) | | | | | |
| Heating | Heating Capacity | A7/W35 | kW | 7 | 9,1 |
| | Heating Power Input | | kW | 1,48 | 1,9 |
| | C.O.P | | W/W | 4,88 | 4,9 |
| | Heating Capacity | A7/W45 | kW | 7,1 | 9 |
| | Heating Power Input | | kW | 1,92 | 2,43 |
| | C.O.P | | W/W | 3,68 | 3,7 |
| | Heating Capacity | A7/W55 | kW | 7 | 9,2 |
| | Heating Power Input | | kW | 2,33 | 2,97 |
| | C.O.P | | W/W | 3 | 3,1 |
| Cooling | Cooling Capacity | A35/W18 | kW | 7,1 | 9,1 |
| | Cooling Power Input | | kW | 1,46 | 2 |
| | E.E.R | | W/W | 4,86 | 4,3 |
| | Cooling Capacity | A35/W7 | kW | 6,8 | 8,7 |
| | Cooling Power Input | | kW | 1,94 | 2,9 |
| | E.E.R | | W/W | 3,4 | 3 |
| Power supply | | | V / Ph / Hz | 220-240 / 1 / 50 | |
| Circuit Breaker | | | A | 32 | |
| Power Cable* | | | $mm^2$ | 3x6,0 | |
| Operating Range | Cooling | | °C | -5 to 43 | |
| | Heating | | °C | -25 to 35 | |
| | DHW | | °C | -25 to 43 | |
| Refrigerant side | Refrigerant | Type / Amount | kg | R290 / 0,83 | R290 / 1,0 |
| | GWP | | | 3 | |
| | Twin Rotary Compressor | Quantity | | 1 | |
| | Compressor Brand | | | Mitsubishi | HIGHLY |
| | Electronic expansion valve | | | 1 | |
| | Refrigerant system pressure (Max. / Min.) | | MPa | 3.5 / 0.3 | |
| | Fan | Quantity | | 1 | |
| | | Motor Type - Brushless DC | | + | |
| | | Motor Brand | | Panasonic | |
| Air side heat exchanger | Material - Hydrophilic aluminum & Inner groove copper tube | | | + | |
| | Rows | | | 2 | 3 |
| | Tube size | | mm | Ø7 | Ø7 |
| Water Side | Plate heat exchanger | Quantity | | 1 | |
| | Piping Connection | | Inch | G1" | |
| | Allowable Water Flow - Min./Rated/Max. | | l/min | | |
| | Water Flow Switch | | | + | |
| | Circulation Pump (Head. m) | | | 9 | |
| | Water resistance | | | IPX4 | |
| | Water pressure drop | | kPa | 39 | 38 |
| Dimension (L×W×H) | Net | | mm | 1223×461×854 | 1223×461×854 |
| | Packing | | mm | 1285×495×1040 | 1285×495×1040 |
| Net / Gross weight | Net/Gross | | kg | 122/137 | 134/149 |
| Controller - TFT, 4.7 inch, Wi-Fi Ready | | | | + | |

* The provided cable cross-section values are of a recommendatory nature only and must not be considered as final design solutions. The actual required cable cross-section depends on the specific installation conditions, including but not limited to: the installation method, ambient temperature, cable route length and permissible voltage drop, grouping of cables, load characteristics, selection of protective devices, and other applicable correction factors.
The final decision must be made in accordance with applicable local laws, national electrical regulations. and standards, taking into account the technical conditions of the specific installation. Design and installation works must be carried out by a properly qualified professional, who is responsible for ensuring compliance with regulatory requirements and safe operation.

Specifications are subject to change without notice. For actual device specifications, see the stickers on the device.

# NØRDIS Ultima Eco Mono

## AIR-TO-WATER HEAT PUMP MULTIFUNCTIONAL INDOOR UNIT



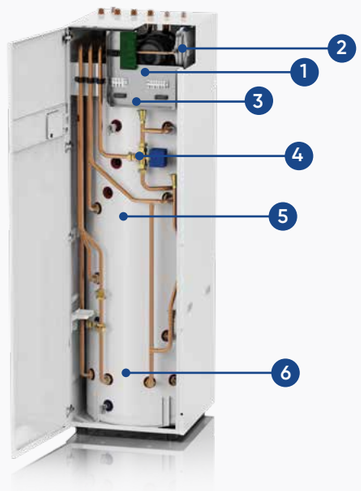
R290 WiFi A+++

If you want your heat pump system to include integrated buffer and domestic hot water tanks, this multi-functional indoor unit is a compact and practical solution. It combines a 170 L domestic hot water tank and a 50 L buffer tank in a single unit, helping to save installation space and simplify system setup. The unit supports domestic hot water preparation as well as heating and cooling operation.

### Features

- 170 L domestic hot water tank with a large-area internal coil for indirect heating.
- 50 L buffer tank for heating and cooling systems.
- Compact all-in-one design that helps reduce required installation space and installation costs.
- Stainless steel tank construction and effective thermal insulation for durability and reduced heat loss.
- Integrated components such as a control panel, air purge valve and 3-way diverting valve.
- Integrated controller with Wi-Fi

### Indoor Unit Structure




1. Control unit
2. DHW 5 L expansion vessel; Heating 8L expansion vessel
3. Digital thermostats
4. Three-way valve
5. 170 L hot water tank
6. 50L buffer tank

| Indoor Unit with DHW and Buffer Tanks | | | | HLE01S/170B50 | |
|---|---|---|---|---|---|
| Compatible Outdoor Units | | | | HLE07MONO1S | HLE09MONO1S |
| Power Supply | | | V/Hz/Ph | 220-240 / 1 / 50 | |
| Circuit Breaker | | | A | C6 | |
| Power Cable | | | $mm^2$ | 3x1,5 | |
| Backup Heater | | | kW | - | |
| 3-way Diverting Valve | | | | + | |
| Expansion vessel | Heating circuit | | l | 8 | |
| | DHW circuit | | l | 5 | |
| DHW tank | | Volume | l | 170 | |
| | | Material | | Duplex 2205 SS | |
| | | Magnesium anode | | Ø22×300 | |
| | | Coil | $m^2$ | 2.6 | |
| Buffer tank | | Volume | l | 50 | |
| | | Material | | SUS 304 | |
| Water Side | Outdoor unit / System Connections | | Inch | G1" | |
| | DHW Inlet / Outlet Connections | | Inch | G3/4" | |
| | Drainage ports | | Inch | G1/2" | |
| | Water Temperature Range | | °C | 7 ~ 75 | |
| Dimensions | Net Dimensions (L x D x H) | | mm | 598×665×2050 | |
| | Net Weight | | kg | 182 | |
| Specifications are subject to change without notice. For actual device specifications. See the stickers on the device. | | | | | |