



HEAT PUMPS AIR-TO-WATER

FOR SMART HOME HEATING

2025



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Air-to-water heat pumps

Air-to-water heat pumps, known for their high eco-friendliness and efficiency, are increasingly becoming the main equipment for maintaining a comfortable home climate.

NØRDIS, combining reliable Nordic technologies with affordability, continuously improves and expands its high-quality heat pump range. The product lineup includes two air-to-water heat pump series: Ultima and Optimus Pro. These modern systems effectively heat, cool, and provide hot water, working successfully even at -25°C temperatures. As a result, the equipment is well-suited to the climate conditions of northern countries.

NØRDIS ULTIMA SERIES AIR-TO-WATER HEAT PUMPS

The most advanced NØRDIS air-to-water heat pump series, utilizing the eco-friendly R290 refrigerant, which has minimal negative impact on the environment. These units feature high efficiency and can maintain water temperatures up to 75°C , making them ideal for radiator systems. The modern design with a color touchscreen and versatility, allowing them to be used in both new and renovated buildings, makes the NØRDIS ULTIMA series both attractive and effective.

NØRDIS OPTIMUS PRO SERIES AIR-TO-WATER HEAT PUMPS

The versatile heat pumps feature high efficiency, durability, and convenient control. The most compact model of the series, the monoblock, allows for easy integration of the unit, saving space in utility rooms. It is perfect for heating, cooling, and hot water production in both new and renovated buildings. The heat pump system is compatible with underfloor heating, radiator, fan convector, and domestic hot water heater systems. The Optimus Pro series heat pumps use the R32 refrigerant.



NØRDIS Ultima series

An efficient solution for controlling your home's climate, providing heating, cooling, and hot water supply, while allowing you to choose a more eco-friendly lifestyle and reduce energy consumption. The advanced Ultima heat pump technology delivers unmatched performance, supplying hot water at temperatures up to 75°C, making it an ideal choice for both newly built and renovated properties.

75 °C

Maximum supplied water
temperature

-25 °C

Lowest ambient
temperature



99.6% lower carbon dioxide
emissions compared to R32.



STANDARDS

A+++

Energy efficiency

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

R290

Eco-friendly R290 refrigerant

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



SG-Ready readiness

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



Smart control

A 7-inch easy-to-use color touchscreen supports advanced features.



Silent mode

Quiet operation guarantees a peaceful environment and quality sleep.



Timer setting

It operates automatically based on usage habits.



Holiday mode

It operates in heating mode and/or DHW mode, maintaining a minimum water temperature.



Control of electric heaters

Smart and economical two-stage electric heater control.



Real-time COP

View energy consumption and COP values in real-time.



Smart defrosting

The algorithms take into account the ambient temperature, heat exchanger temperature, and defrosting time.



Heating/cooling curves

For economical operation.



Hot water maintenance

Timer and priority hot water control with a disinfection function.



Cascade operation

One control panel manages up to 10 units in a single cascade system.



Various configurations

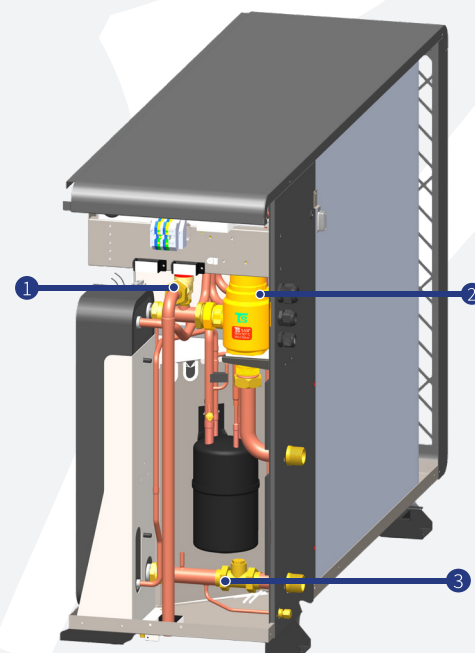
Power range from 6 to 16 kW, suitable for both renovated and large new buildings.

Leak protection system

To ensure CE compliance and user safety, the heat pump system using the flammable R290 refrigerant strictly limits its amount in indoor spaces. This requirement ensures that even in the case of an unexpected leak, no explosive gas concentrations will form indoors. NØRDIS Ultima heat pumps are equipped with three independent safety systems that mechanically prevent gas leakage and provide the highest level of safety.

System operation logic:

Upon detecting a refrigerant leak in the plate heat exchanger, the safety valve automatically releases the leaked refrigerant through the refrigerant discharge pipe. The gas separator sends a signal to the main control board, activating the leak protection logic, causing the compressor and water pump to shut down. The fan continues to operate to accelerate the ventilation of the leaked refrigerant, ensuring guaranteed system safety.



Key system safety components



Pressure release valve (1)

When the pressure in the water system exceeds 2.5 bar, gas and water are released from the system.



Gas separator (2)

Removes gases detected in the water system.



Check valve (3)

Prevents refrigerant or water from flowing back into the water system.

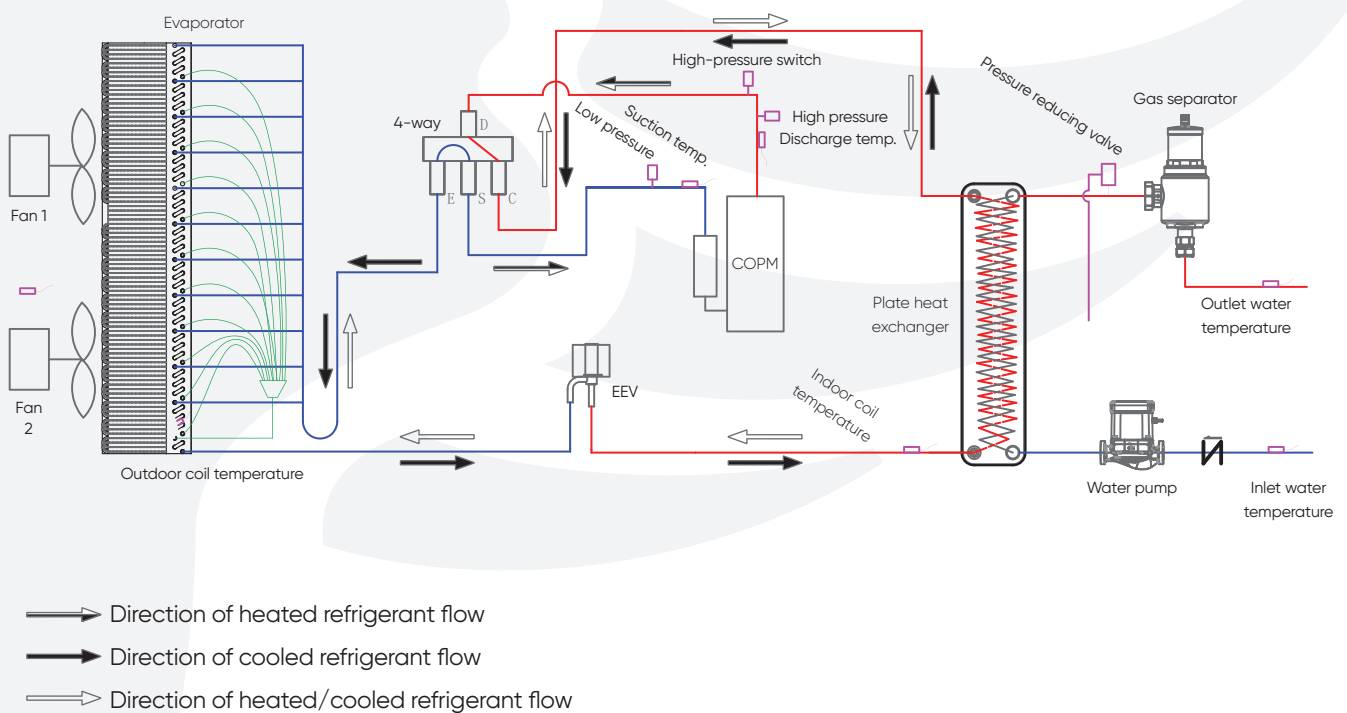
Functional control

The unique 7-inch touchscreen features high resolution and exceptionally smooth performance. A multilingual menu allows customization to individual preferences. Smart and advanced features ensure that controlling the heat pump is remarkably simple.

- A uniquely designed color display.
- Intuitive touchscreen interface.
- WiFi / 4G connectivity.
- Remote control via app.



System customization





NØRDIS Ultima Mono Split type

AIR-TO-WATER HEAT PUMPS

Features

- Energy efficiency class A+++;
- Eco-friendly refrigerant R290;
- Supply water temperature up to 75°C;
- Operates in heating mode with outdoor temperatures down to -25°C;
- Unique, easy-to-use LCD screen;
- Extremely quiet;
- Smart network function integrated.

Indoor unit structure

By opening the front panel mounted on hinges and the control automation door, the hydraulic system is easily accessible. This ensures convenient access to any component of the hydraulic and control system.



Efficient operation
with outdoor
temperatures
dropping to

-25°C



Maximum
prepared water
temperature

75°C

TECHNICAL DATA

| Model | | | | HLT6MONO-S / HLT-9-3S | HLT9MONO-S / HLT-9-3S | HLT12MONO-S / HLT-9-3S | HLT16MONO-3S / HLT-9-3S |
|--|---|--------------|---------|--------------------------|--------------------------|---------------------------|----------------------------|
| Seasonal Energy-(Accordingto EN14825) | | | | | | | |
| ErP | Energy Class-Heating (35°C/55°C) | | | A+++ /A++ | | | |
| | SCOP (35°C/55°C) | W/W | | 4.81/3.59 | 4.85/3.65 | 4.76/3.56 | 4.74/3.50 |
| | Rated Heat Output (Prated) (35 °C / 55 °C) | kW | | 4.91/4.55 | 6.93/6.40 | 8.97/8.21 | 12.55/11.01 |
| | Seasonal Space Heating Efficiency (35°C/55°C) | % | | 189.3/140.6 | 190.9/143.1 | 187.5/139.4 | 186.5/136.9 |
| | Annual Energy Consumption (35°C/55°C) | kWh | | 2111/2616 | 2953/3622 | 3889/4766 | 5475/6505 |
| | Sound pressure level 1m (Indoor / Outdoor) * | dB(A) | | 19/40 | 20/39 | 21/41 | 23/40 |
| | Sound Power Level (Indoor / Outdoor) | dB(A) | | 33/54 | 33/54 | 34/56 | 37/56 |
| Nominal Capacity and Nominal Input | | | | | | | |
| Heating | Heating Capacity Min./Max. | A7/W35 | kW | 2.56/6.76 | 3.76/9.52 | 5.21/12.0 | 6.83/16.6 |
| | Heating Power Input Min./Max. | | kW | 0.58/1.52 | 0.68/2.04 | 0.99/3.06 | 1.27/4.18 |
| | C.O.P | | W/W | 4.44/ 4.83 | 4.67/5.57 | 3.93/5.31 | 3.98/5.38 |
| | Heating Capacity Min./Max. | A7/W45 | kW | 2.42/6.57 | 3.00/9.09 | 4.38/11.7 | 6.17/15.5 |
| | Heating Power Input Min./Max. | | kW | 0.67/1.82 | 0.86/2.40 | 1.11/3.55 | 1.58/4.76 |
| | C.O.P | | W/W | 3.62/3.86 | 3.51/4.03 | 3.28/3.94 | 3.26/3.90 |
| Cooling | Cooling Capacity Min./Max. | A35/W18 | kW | 2.02/5.43 | 2.39/7.83 | 3.47/10.1 | 5.77/12.4 |
| | Cooling Power Input Min./Max. | | kW | 0.51/1.31 | 0.57/2.08 | 0.94/2.97 | 1.23/3.70 |
| | E.E.R | | W/W | 4.00/4.23 | 3.77/4.35 | 3.40/3.93 | 3.36/4.69 |
| | Cooling Capacity Min./Max. | A35/W7 | kW | 1.27/3.71 | 1.83/5.61 | 2.16/7.19 | 4.05/10.1 |
| | Cooling Power Input Min./Max. | | kW | 0.52/1.30 | 0.62/2.00 | 0.97/2.76 | 1.26/3.55 |
| | E.E.R | | W/W | 2.46/2.95 | 2.46/2.99 | 2.23/2.64 | 2.84/3.22 |
| General Info | | | | | | | |
| Power Supply | | | V/Hz/Ph | 220-240/50/1 | 220-240/50/1 | 220-240/50/1 | 380-420/50/3 |
| Operation Limits | Ambient Temperature Range Min./Max. | | °C | -25 ~ +43 | | | |
| | Heating Water Temperature Range Max./Min. | | °C | 70/25 | | | |
| | Cooling Water Temperature Range Max./Min. | | °C | 20/7 | | | |
| Refrigerant Side | Refrigerant | Type/Amount | -/kg | R290 / 0.6kg | R290 /0.7kg | R290 / 0.9kg | R290 / 1.5kg |
| | Compressor | Type/Amount | | Rotary | | | |
| | Four-way valve + EEV | | | Sanhua | | | |
| | Fan | Quantity | | 1 | 1 | 1 | 2 |
| | | Airflow | m3/h | 3150 | 3150 | 3300 | 6300 |
| | | Rated Power | W | 62 | 62 | 62 | 124 |
| Water Side | Type of Heat Exchanger | | | Plate Heat Exchanger | | | |
| | Water Pressure Drop | | kPa | 23 | 23 | 23 | 23 |
| | Piping Connection | | Inch | G1" | G1" | G1" | G1-1/4" |
| | Allowable Water Flow - Min./Rated/Max. | | | 0.20/0.29/0.37 | 0.27/0.38/0.50 | 0.40/0.57/0.75 | 0.50/0.72/0.93 |
| Dimensions | Net Dimensions (L x D x H) | Indoor Unit | mm | 550x260x650 | 550x260x650 | 550x260x650 | 550x260x650 |
| | | Outdoor Unit | mm | 1255x440x885 | 1255x440x885 | 1255x440x985 | 1140x460x1490 |
| | Net Weight | Indoor Unit | kg | 34 | 34 | 34 | 34 |
| | | Outdoor Unit | kg | 98 | 109 | 120 | 164 |
| Specifications may be changed without prior notice. For the actual device specifications, refer to the labels on the device. * - low-temperature applications | | | | | | | |



NØRDIS Ultima Mono Split type

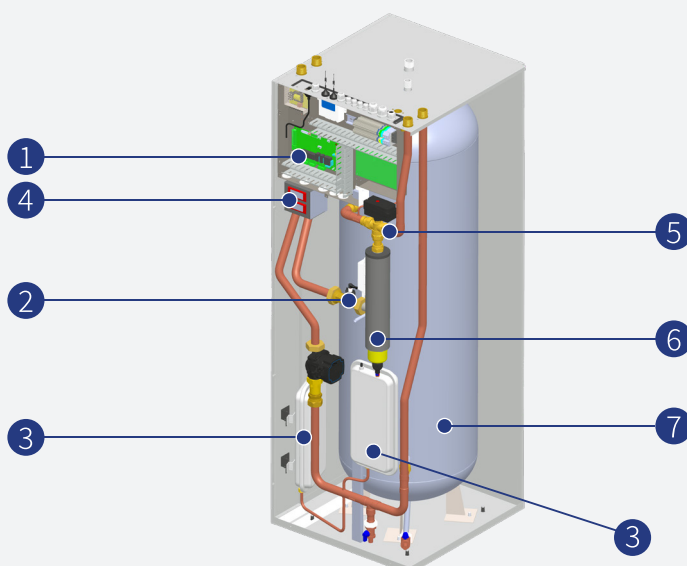
AIR-TO-WATER HEAT PUMPS WITH DHW TANK

The latest "all-in-one" system is a monoblock design that maximizes installation simplicity and space efficiency, making the system more convenient to use.

Features

- Energy efficiency class A+++;
- Eco-friendly refrigerant R290;
- Supply water temperature up to 75°C;
- Operates in heating mode at outdoor temperatures down to -25°C.
- Unique, easy-to-use LCD screen;
- Exceptionally quiet;
- Smart grid function integrated.

Indoor unit structure



1. Control unit
2. Flow meter
3. 2 x 5 L expansion tanks
4. Digital thermostats
5. Three-way valve
6. 9 kW electric heater
7. 250 L hot water tank

| Model | | | | HLT6MONO-S / HLT-9-250-3S | HLT9MONO-S / HLT-9-250-3S | HLT12MONO-S / HLT-9-250-3S | HLT16MONO-3S / HLT-9-250-3S |
|--|---|-----------------|-------------|------------------------------|------------------------------|-------------------------------|--------------------------------|
| Seasonal Energy--(Accordingto EN14825) | | | | | | | |
| ErP | Energy Class-Heating (35°C/55°C) | | | A+++/A++ | | | |
| | SCOP (35°C/55°C) | | W/W | 4.81/3.59 | 4.85/3.65 | 4.76/3.56 | 4.74/3.50 |
| | Rated Heat Output (Prated) (35 °C / 55 °C) | | kW | 4.91/4.55 | 6.93/6.40 | 8.97/8.21 | 12.55/11.01 |
| | Seasonal Space Heating Efficiency (35°C/55°C) | | % | 189.3/140.6 | 190.9/143.1 | 187.5/139.4 | 186.5/136.9 |
| | Annual Energy Consumption (35°C/55°C) | | kWh | 2111/2616 | 2953/3622 | 3889/4766 | 5475/6505 |
| | Sound pressure level 1m (Indoor / Outdoor) * | | dB(A) | 19/40 | 20/39 | 21/41 | 23/40 |
| | Sound Power Level (Indoor / Outdoor) | | dB(A) | 33/54 | 33/54 | 34/56 | 37/56 |
| Nominal Capacity and Nominal Input | | | | | | | |
| Heating | Heating Capacity Min./Max. | A7/W35 | kW | 2.56/6.76 | 3.76/9.52 | 5.21/12.0 | 6.83/16.6 |
| | Heating Power Input Min./Max. | | kW | 0.58/1.52 | 0.68/2.04 | 0.99/3.06 | 1.27/4.18 |
| | C.O.P | | W/W | 4.44/ 4.83 | 4.67/5.57 | 3.93/5.31 | 3.98/5.38 |
| | Heating Capacity Min./Max. | A7/W45 | kW | 2.42/6.57 | 3.00/9.09 | 4.38/11.7 | 6.17/15.5 |
| | Heating Power Input Min./Max. | | kW | 0.67/1.82 | 0.86/2.40 | 1.11/3.55 | 1.58/4.76 |
| | C.O.P | | W/W | 3.62/3.86 | 3.51/4.03 | 3.28/3.94 | 3.26/3.90 |
| Cooling | Cooling Capacity Min./Max. | A35/ W18 | kW | 2.02/5.43 | 2.39/7.83 | 3.47/10.1 | 5.77/12.4 |
| | Cooling Power Input Min./Max. | | kW | 0.51/1.31 | 0.57/2.08 | 0.94/2.97 | 1.23/3.70 |
| | E.E.R | | W/W | 4.00/4.23 | 3.77/4.35 | 3.40/3.93 | 3.36/4.69 |
| | Cooling Capacity Min./Max. | A35/W7 | kW | 1.27/3.71 | 1.83/5.61 | 2.16/7.19 | 4.05/10.1 |
| | Cooling Power Input Min./Max. | | kW | 0.52/1.30 | 0.62/2.00 | 0.97/2.76 | 1.26/3.55 |
| | E.E.R | | W/W | 2.46/2.95 | 2.46/2.99 | 2.23/2.64 | 2.84/3.22 |
| General Info | | | | | | | |
| Power Supply | | | V/Hz/Ph | 220-240/50/1 | 220-240/50/1 | 220-240/50/1 | 380-420/50/3 |
| Operation Limits | Ambient Temperature Range Min./Max. | | °C | -25 ~ +43 | | | |
| | Heating Water Temperature Range Max./Min. | | °C | 70/25 | | | |
| | Cooling Water Temperature Range Max./Min. | | °C | 20/7 | | | |
| Refrigerant Side | Refrigerant | Type/ Amount | -/kg | R290 / 0.6kg | R290 /0.7kg | R290 / 0.9kg | R290 / 1.5kg |
| | Compressor | | Type/Amount | | Rotary | | |
| | Four-Way Valve + EEV | | | Sanhua | | | |
| | Fan | Quantity | | 1 | 1 | 1 | 2 |
| | | Airflow | m3/h | 3150 | 3150 | 3300 | 6300 |
| | | Rated Power | W | 62 | 62 | 62 | 124 |
| Water Side | Type of Heat Exchanger | | | Plate Heat Exchanger | | | |
| | Water Pressure Drop | | kPa | 23 | 23 | 23 | 23 |
| | Piping Connection | | Inch | G1" | G1" | G1" | G1-1/4" |
| | Allowable Water Flow - Min./Rated/Max. | | l/s | 0.20/0.29/0.37 | 0.27/0.38/0.50 | 0.40/0.57/0.75 | 0.50/0.72/0.93 |
| Dimensions | Net Dimensions (L x D x H) | Indoor Unit | mm | 600x710x1720 | 600x710x1720 | 600x710x1720 | 600x710x1720 |
| | | Outdoor Unit | mm | 1255x440x885 | 1255x440x885 | 1255x440x985 | 1140x460x1490 |
| | Net Weight | Indoor Unit | kg | 115 | 115 | 115 | 115 |
| | | Outdoor Unit | kg | 98 | 109 | 120 | 164 |
| Specifications may be changed without prior notice. For the actual device specifications, refer to the labels on the device. * - low-temperature applications | | | | | | | |



NØRDIS Ultima Mono for Commercial Use

AIR-TO-WATER HEAT PUMPS

Features

- Energy efficiency class A+++;
- Eco-friendly refrigerant R290;
- Supply water temperature up to 75°C;
- Operates in heating mode at outdoor temperatures down to -25°C;
- Unique, easy-to-use LCD screen;
- Smart grid function integrated.

Due to its power and wide range of applications, the NØRDIS Ultima commercial series ensures comfortable heating, cooling, and domestic hot water supply even in the largest commercial projects—hotels, offices, factories, and other industrial sectors. The optimized cascade system allows the NØRDIS Ultima series to adapt to a variety of needs.

When designing the NØRDIS Ultima, safety is just as important as comfort. The advanced safety control system ensures efficient and secure enjoyment of continuous comfort.



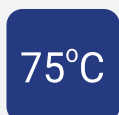
Smart control

Integrated Wi-Fi module for smartphone control.



Low consumption

High energy efficiency reaches the A+++ energy level.



High water temperature.

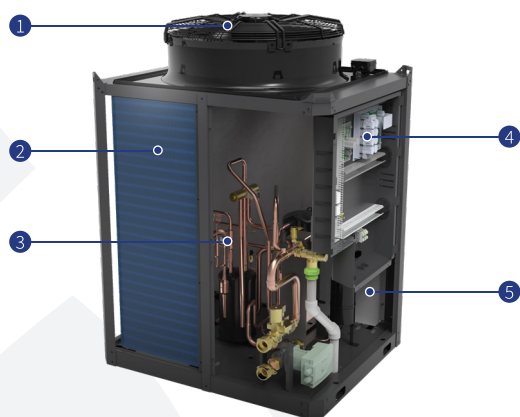
Supplied water temperature up to 75 °C.



Cascade operation

One control panel manages up to 10 units in a single cascade system.

Outdoor unit components



1. EC fan motor
2. High-quality heat exchanger
3. Electronic expansion valve
4. Control system
5. Stable and efficient DC inverter compressor

TECHNICAL DATA

| Model | | | | HLT40MONO-3 | |
|---|---|--------------|--------------|----------------------|------------|
| Seasonal Energy--(According to EN14825) | | | | | |
| ErP | Energy Class-Heating (35°C/55°C) | | | A+++ / A++ | |
| | SCOP (35°C/55°C) | | W/W | 4.87/3.72 | |
| | Rated Heat Output (Prated) (35 °C / 55 °C) | | kW | 29/28 | |
| | Seasonal Space Heating Efficiency (35°C/55°C) | | % | 191/146 | |
| | Annual Energy Consumption (35°C/55°C) | | kWh | 12166/15641 | |
| | Sound pressure level 1m (Indoor / Outdoor) * | | dB(A) | - / 54 | |
| | Sound Power Level (Indoor / Outdoor)** | | dB(A) | - / 65* | |
| Nominal Capacity and Nominal Input | | | | | |
| Heating | Heating Capacity Min./Max. | | A7/W35 | kW | 13.5/39.6 |
| | Heating Power Input Min./Max. | | | kW | 3.18/11.3 |
| | C.O.P | | | W/W | 3.51/4.42 |
| | Heating Capacity Min./Max. | | A7/W45 | kW | 13.5/38.2 |
| | Heating Power Input Min./Max. | | | kW | 3.5/12.3 |
| | C.O.P | | | W/W | 3.09/3.83 |
| Cooling | Cooling Capacity Min./Max. | | A35/W18 | kW | 13.4/36.2 |
| | Cooling Power Input Min./Max. | | | kW | 2.88/9.87 |
| | E.E.R | | | W/W | 3.66/4.92 |
| | Cooling Capacity Min./Max. | | A35/W7 | kW | 6.4/25.8 |
| | Cooling Power Input Min./Max. | | | kW | 2.87/9.38 |
| | E.E.R | | | W/W | 2.23/2.75 |
| General Info | | | | | |
| Power Supply | | | V/Hz/Ph | 380/50/3 | |
| Operation Limits | Ambient Temperature Range | | °C | | -25 ~ +43 |
| | Heating Water Temperature Range Max./Min. | | °C | | 75/20 |
| | Cooling Water Temperature Range Max./Min. | | °C | | 25/7 |
| Refrigerant Side | Refrigerant | | Type/ Amount | -/kg | R290 / 4.2 |
| | Compressor | | Type/ Amount | | Scroll / 1 |
| | Four-Way Valve + EEV | | Sanhua | | |
| | Fan | Quantity | | 1 | |
| | | Airflow | m³/h | 12500 | |
| | | Rated power | W | 1100 | |
| Water Side | Type of Heat Exchanger | | | Plate Heat Exchanger | |
| | Water Pressure Drop | | | kPa | 140 |
| | Piping Connection | | | Inch | G2" |
| | Allowable Water Flow-Min./Rated./Max. | | | l/s | 1.3/19/2.5 |
| Dimensions | Net Dimension (L x D x H) | Indoor Unit | mm | 380x135x480 | |
| | | Outdoor Unit | mm | 1050x1170x1690 | |
| | Net Weight | Indoor Unit | kg | 10 | |
| | | Outdoor Unit | kg | 348 | |
| The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit. | | | | | |
| * - low-temperature applications | | | | | |
| ** - In low-temperature systems. In medium-temperature systems – 71 dB. | | | | | |



NØRDIS Optimus Pro series

NØRDIS Optimus Pro Split air-to-water heat pumps are designed for space heating, cooling, and domestic hot water preparation, utilizing energy from outdoor air. The NØRDIS Optimus Pro Split series is built on direct current (DC) technology.

65 °C

Supply water
temperature

-25 °C

Lowest ambient
temperature



STANDARDS

A+++

Energy efficiency

Heat pumps meet the highest A+++ energy efficiency class.

R32
ECO FRIENDLY

Eco-friendly R32 refrigerant.

Higher heat transfer coefficient ensuring better performance.



Smart power grid utilization

The heat pump's operating time can be automatically adjusted based on the power grid load.



Convenient controller / remote control

Advanced multifunctional controller or app on a smart device.



Silent mode

The sound pressure level of NØRDIS Optimus Pro units is as low as 35 dB(A) at a distance of 3 meters.



Schedule setting

NØRDIS Optimus Pro operates automatically based on user habits to meet various usage needs.



Holiday mode

The device operates in heating and/or hot water preparation mode, maintaining the minimum water temperature required to prevent the system from freezing during winter.



Temperature curves

The water temperature prepared by the heat pump automatically adjusts based on changes in outdoor air temperature.



Hot water recirculation

The hot water recirculation function is used to return water from the pipeline to the hot water tank according to a set timer.



Power limitation function

The function allows the heat pump to be adapted to the available input power.



Certificates





NØRDIS Optimus Pro Split type

AIR-TO-WATER HEAT PUMPS

| Outdoor Unit Model | | | HOP6W ODU | HOP8W ODU | HOP10W ODU | HOP12W ODU3 | HOP16W ODU3 |
|--|----------------------|-------|-----------------------------------|--------------------------------|------------|----------------|-------------|
| Compatible Indoor Units without DHW Tank | | | HOP60WIDU | HOP100WIDU arba HOP100WIDU3 | | HOP160WIDU3 | |
| Compatible Indoor Units with DHW Tank | | | HOP100/190IDU arba HOP100/190IDU3 | | | HOP160/240IDU3 | |
| Heating A7W35 ¹ | Capacity | kW | 6,20 | 8,30 | 10,00 | 12,10 | 16,00 |
| | Rated Input | kW | 1,24 | 1,60 | 2,00 | 2,44 | 3,56 |
| | COP | | 5,00 | 5,20 | 5,00 | 4,95 | 4,50 |
| Heating A7W45 ² | Capacity | kW | 6,35 | 8,20 | 10,00 | 12,30 | 16,00 |
| | Rated Input | kW | 1,69 | 2,08 | 2,63 | 3,24 | 4,44 |
| | COP | | 3,75 | 3,95 | 3,80 | 3,80 | 3,60 |
| Heating A7W55 ³ | Capacity | kW | 6,00 | 7,50 | 9,50 | 12,00 | 16,00 |
| | Rated Input | kW | 2,00 | 2,36 | 3,06 | 3,87 | 5,52 |
| | COP | | 3,00 | 3,18 | 3,10 | 3,10 | 2,90 |
| Heating A-7W35 ⁹ | Capacity | kW | 6,10 | 7,10 | 8,25 | 10,00 | 13,30 |
| | Rated Input | kW | 2,00 | 2,18 | 2,62 | 3,33 | 4,93 |
| | COP | | 3,05 | 3,25 | 3,15 | 3,00 | 2,70 |
| Cooling A35W18 ⁴ | Capacity | kW | 6,55 | 8,40 | 10,00 | 12,00 | 14,90 |
| | Rated Input | kW | 1,34 | 1,66 | 2,08 | 3,00 | 4,38 |
| | EER | | 4,90 | 5,05 | 4,80 | 4,00 | 3,40 |
| Cooling A35W7 ⁵ | Capacity | kW | 7,00 | 7,40 | 8,20 | 11,60 | 14,00 |
| | Rated Input | kW | 2,33 | 2,19 | 2,48 | 4,22 | 5,71 |
| | EER | | 3,00 | 3,38 | 3,30 | 2,75 | 2,45 |
| Energy Efficiency Class ⁶ | Water Outlet at 35°C | Class | A+++ | | | | |
| | Water Outlet at 55°C | Class | A++ | | | | |
| SCOP ⁶ | | 35°C | 4,95 | 5,22 | 5,2 | 4,81 | 4,62 |
| | | 55°C | 3,52 | 3,37 | 3,47 | 3,45 | 3,41 |
| SEER ⁶ | | 7°C | 5,37 | 5,83 | 5,98 | 4,86 | 4,67 |
| | | 18°C | 8,21 | 8,95 | 8,78 | 7,04 | 6,71 |

NØRDIS Optimus Pro Split outdoor units

TECHNICAL DATA

Features

- Energy efficiency class A+++;
- Eco-friendly refrigerant R32;
- Dual-rotor inverter compressor with permanent magnets;
- Operates in heating mode at outdoor temperatures as low as -25°C;
- Exceptionally quiet – two silent operation modes;
- Smart grid functionality implemented.



| Outdoor Unit Model | | | HOP6WODU | HOP8WODU | HOP10WODU | HOP12WODU3 | HOP16WODU3 |
|--------------------------------------|---------------------------------------|-----------|-----------------------|--------------|-----------|--------------|------------|
| Power Supply | | V/Ph/Hz | 220~240/1/50 | | | 380~415/3/50 | |
| Rated Power | | W | 2600 | 3300 | 3600 | 5400 | 6100 |
| Rated Current | | A | 12,0 | 14,5 | 16,0 | 9,0 | 11,0 |
| Power Cable | | mm² | 3x2,5 | | | 5x2,5 | |
| Automatic Switch | | A | C16 | | C20 | C16~3 | |
| Refrigerant | Type (GWP) | | R32 (675) | | | | |
| | Quantity in the Device | kg | 1,5 | 1,65 | | 1,84 | |
| Refrigerant Pipes | Liquid Phase | mm (Inch) | 6,35 (1/4") | 9,52 (3/8") | | | |
| | Gas Phase | mm (Inch) | 15,88 (5/8") | | | | |
| Between the Indoor and Outdoor Units | Height Difference, Max. | m | 20 | | | | |
| | Pipe Lenght, Min. | m | w3 | | | | |
| | Pipe Lenght, Max. | m | 30 | | | | |
| Additional Refrigerant Charge | Quantity | g/m | 20 | 38 | | | |
| | Pipe Length without Additional Charge | m | Max.15 | | | | |
| Compressor | | | DC Two Rotor Inverter | | | | |
| Fan | | | DC Electric Motor | | | | |
| Sound Power Level ⁷ | | dB (A) | 58 | 59 | 60 | 64 | 68 |
| Sound Pressure (1 m) | | dB (A) | 45 | 46 | 49 | 50 | 55 |
| Sound Pressure (2 Silent Mode) | | dB (A) | 40 | 41 | 41 | 43 | 43 |
| Dimension (W x H x D) | | mm | 1008×712×426 | 1118×865×523 | | | |
| Dimension of Package (W x H x D) | | mm | 1065×810×485 | 1190×970×560 | | | |
| Net / Gross Weight | | kg | 58 / 63.5 | 75 / 89 | | 97 / 110.5 | |
| Operation Ambient Temperature Range | Heating | ℃ | -25 ~ +35 | | | | |
| | Cooling | ℃ | -5 ~ +43 | | | | |
| | DHW | ℃ | -25 ~ +43 | | | | |



Efficient operation at outdoor temperatures as low as

-25°C



Maximum prepared water temperature

65°C



NØRDIS Optimus Pro Split

Indoor units without integrated DHW tank

Features

- Touch-sensitive control panel;
- Integrated Wi-Fi module for device control via smartphone;
- Electronic circulation pump;
- Alfa Laval heat exchanger;
- Temperature curves implemented for device control based on outdoor temperature;
- Hot water disinfection function;
- Integrated auxiliary electric water heater.

Air-to-water heat pumps without an integrated hot water tank come with three power capacity indoor units. The heat pump system is compatible with underfloor heating, radiators, fan coil units, and domestic water heating systems. This eliminates the need to invest in a complete system overhaul.

Series multifunctionality



Hot water preparation priority



Automatic mode



Disinfection mode



Economy mode



Weekly schedule



Daily schedule



Temperature curves



Quick DHW preparation mode

| Indoor Units without DHW Tank | | | HOP60W IDU | HOP100W IDU | | HOP100W IDU3 | | HOP160W IDU3 | |
|-------------------------------------|------------------------|-----------|-----------------|-------------|------------|------------------------|------------|--------------|-------------|
| Compatible Outdoor Models | | | HOP6W ODU | HOP8W ODU | HOP10W ODU | HOP8W ODU | HOP10W ODU | HOP12W ODU3 | HOP16W ODU3 |
| Built-in Electric Heater | | kW | 3 | | | 9 (3+3+3) ⁸ | | | |
| Power Supply | | V/Ph/Hz | 220-240/1/50 | | | 380-415/3/50 | | | |
| Rated Power | | W | 3095 | | | 9095 | | | |
| Nominal Current | | A | 13,5 | | | 13,3 | | | |
| Power Cable | | mm² | 3x2,5 | | | 5x2,5 | | | |
| Communication Cable, AWG18 Shielded | | mm² | | | | 2x0,75 | | | |
| Automatic Switch | | A | C16 | | | C16~3 | | | |
| Sound Power Level ⁷ | | dB (A) | 38 | 42 | | | | 43 | |
| Sound Pressure (1 m) | | dB (A) | 28 | 30 | | | | 32 | |
| Dimension (W x H x D) | | mm | 420x790x270 | | | | | | |
| Dimension of Package (W x H x D) | | mm | 525x1050x360 | | | | | | |
| Circulation Pump | Type | | DC, Electronic | | | | | | |
| | Maximum Lifting Height | m | 9 | | | | | | |
| | Power | W | 5~90 | | | | | | |
| Minimum Water Flow | | m³/h | 0,36 | | | | | 0,6 | |
| Operating Limits for Water Flow | | m³/h | 0,4 ~ 1,25 | 0,4 ~ 2,1 | | | | 0,7 ~ 3,0 | |
| Heat Exchanger | | | Plate, Soldered | | | | | | |
| Expansion Tank | | l | 8 | | | | | | |
| Refrigerant Pipes | Liquid Phase | mm (Inch) | 6,35 (1/4") | 9,52 (3/8") | | | | | |
| | Gas Phase | mm (Inch) | 15,88 (5/8") | | | | | | |
| Water Pipe Connection | | | R1" | | | | | | |
| Net / Gross weight | | kg | 43 / 49 | | | | | 45 / 51 | |
| Supply Water Temperature | Heating | °C | +25 ~ +65 | | | | | | |
| | Cooling | °C | +5 ~ +25 | | | | | | |
| | DHW | °C | +20 ~ +60 | | | | | | |
| Ambient Temperature | | °C | 0 ~ +35 | | | | | | |
| Water Pressure in the System | | bar | 1 ~ 3 | | | | | | |



NØRDIS Optimus Pro Split

Indoor units with integrated DHW tank

Features

- Integrated 190 L or 240 L stainless steel water heater;
- Touch-sensitive control panel;
- Integrated Wi-Fi module for device control via smartphone;
- Electronic circulation pump;
- Alfa Laval heat exchanger;
- Temperature curves implemented for device control based on outdoor temperature;
- Hot water disinfection function;
- Integrated auxiliary electric water heater.

Air-to-water heat pumps with an integrated hot water tank come with two power capacities and tank sizes for indoor units. These units incorporate the latest technologies to ensure high performance and minimal operating costs. The combination of heat pump equipment provides optimal solutions for heating, cooling, and hot water preparation processes.

Series multifunctionality



Hot water
preparation priority



Automatic
mode



Disinfection
mode



Economy
mode



Iki 240 l talpos
vandens šildytuvas



Daily
schedule



Temperature
curves



Quick DHW
preparation mode

| Indoor Units with DHW Tank | | | HOP100/190 IDU | | | HOP100/190 IDU3 | | | HOP160/240 IDU3 | |
|--|------------------------|-----------|---------------------------|-------------|------------|------------------------|-------------|------------|-----------------|-------------|
| Compatible Outdoor Models | | | HOP6W ODU | HOP8W ODU | HOP10W ODU | HOP6W ODU | HOP8W ODU | HOP10W ODU | HOP12W ODU3 | HOP16W ODU3 |
| Efficiency Class for Hot Water Production (Temperate Climate Zone) | | Class | A+ | | | | | | | |
| | | COP | 3,10 | 3,02 | | 3,10 | 3,02 | | 3,00 | |
| Water Tank Capacity | Capacity | l | 190 | | | | | | 240 | |
| | Material | | Stainless Steel, SUS 316L | | | | | | | |
| | Max Water Temperature | °C | 70 | | | | | | | |
| | Isolation | | Polyurethane | | | | | | | |
| Built-in Electric Heater | | kW | 3 | | | 9 (3+3+3) ^a | | | | |
| Power Supply | | V/Ph/Hz | 220-240/1/50 | | | 380-415/3/50 | | | | |
| Rated Power | | W | 3095 | | | 9095 | | | | |
| Rated Current | | A | 13,5 | | | 13,5 | | | | |
| Power Cable | | mm² | 3x2,5 | | | 5x2,5 | | | | |
| Communication Cable, AWG18 Shielded | | mm² | 2x0,75 | | | | | | | |
| Automatic Switch | | A | C16 | | | C16~3 | | | | |
| Sound Power Level ⁷ | | dB | 38 | 40 | | 38 | 40 | | 44 | |
| Dimension (W x H x D) | | mm | 600x1683x600 | | | | | | 600x1943x600 | |
| Dimension of Package (W x H x D) | | mm | 730x1920x730 | | | | | | 730x2182x730 | |
| Circulation Pump | Type | | DC, Electronic | | | | | | | |
| | Maximum Lifting Height | m | 9 | | | | | | | |
| | Power | W | 5~90 | | | | | | | |
| Minimum Water Flow | | m³/h | 0,36 | | | | | | 0,6 | |
| Operating Limits for Water Flow | | m³/h | 0,4 ~ 1,25 | 0,4 ~ 2,1 | | 0,4 ~ 1,25 | 0,4 ~ 2,1 | | 0,7 ~ 3,0 | |
| Heat Exchanger | | | Plate, Soldered | | | | | | | |
| Expansion Tank | | l | 8 | | | | | | | |
| Refrigerant Pipes | Liquid Phase | mm (Inch) | 6,35 (1/4") | 9,52 (3/8") | | 6,35 (1/4") | 9,52 (3/8") | | | |
| | Gas Phase | mm (Inch) | 15,88 (5/8") | | | | | | | |
| Water Pipe Connection | Heating/Cooling | | R1" | | | | | | | |
| | Hot Water Preparation | | R3/4" | | | | | | | |
| Ne / Gross Weight | | kg | 140 / 161 | | | | | | 159 / 180 | |
| Supply Water Temperature | Heating | °C | +25 ~ +65 | | | | | | | |
| | Cooling | °C | +5 ~ +25 | | | | | | | |
| | DHW | °C | +30 ~ +60 | | | | | | | |
| Ambient Temperature | | °C | +5 ~ +35 | | | | | | | |
| Water Pressure in the Heating/ Cooling System | | bar | 1 ~ 2,5 | | | | | | | |
| Water Pressure in the Hot Water System (Cold Water) | | bar | 1,5 ~ 3 | | | | | | | |



NØRDIS Optimus Pro Mono

AIR-TO-WATER HEAT PUMPS

Features

- Energy efficiency class A+++;
- Eco-friendly refrigerant R32;
- Dual-rotor inverter compressor with permanent magnets;
- Operates in heating mode at outdoor temperatures as low as -25°C ;
- Exceptionally quiet – two silent operation modes;
- Smart grid functionality implemented;
- Touch-sensitive control panel;
- Integrated Wi-Fi module for device control via smartphone.

NØRDIS Optimus Pro monoblocks are high-efficiency, low-energy-consumption air-to-water heat pumps. The entire heating system is integrated into a single, universal outdoor unit, making it an ideal solution for homes without auxiliary rooms for additional heat pump equipment. The installation is simple and quick.

NØRDIS Optimus Pro monoblocks are fully compatible with any existing home heating or hot water preparation system. These units ensure low energy consumption, a high energy efficiency class, and excellent seasonal performance indicators.

| Outdoor Units | | | HOP6W MONO | HOP8W MONO | HOP10W MONO | HOP12W MONO3 | HOP16W MONO3 |
|--------------------------------------|---------------------------|---------|-----------------------|--------------------|--------------------|---------------------|---------------------|
| Built-in Electric Heater | | kW | 3 | | | 9 | |
| Power Supply | | V/Ph/Hz | 220-240/1/50 | | | 380-415/3/50 | |
| Rated Power | | W | 5700 ¹⁾ | 6400 ¹⁾ | 6700 ¹⁾ | 14500 ¹⁾ | 15200 ¹⁾ |
| Rated Current | | A | 27 | 29 | 30 | 23 | 25 |
| Power Cable | | mm² | 3x4,0 | 3x6,0 | | 5x6,0 | |
| Communication Cable, AWG18 Shielded | | mm² | 5x0,75 | | | | |
| Automatic Switch | | A | C32 | | | | |
| Heating A7W35 ¹ | Capacity | kW | 6,35 | 8,40 | 10,00 | 12,10 | 15,90 |
| | Rated Input | kW | 1,28 | 1,63 | 2,02 | 2,44 | 3,53 |
| | COP | | 4,95 | 5,15 | 4,95 | 4,95 | 4,50 |
| Heating A7W45 ² | Capacity | kW | 6,30 | 8,10 | 10,00 | 12,30 | 16,00 |
| | Rated Input | kW | 1,70 | 2,10 | 2,67 | 3,32 | 4,57 |
| | COP | | 3,70 | 3,85 | 3,75 | 3,70 | 3,50 |
| Heating A7W55 ³ | Capacity | kW | 6,00 | 7,50 | 9,50 | 11,90 | 16,00 |
| | Rated Input | kW | 2,03 | 2,36 | 3,06 | 3,90 | 5,61 |
| | COP | | 2,95 | 3,18 | 3,10 | 3,05 | 2,85 |
| Heating A-7W35 ⁹ | Capacity | kW | 6,00 | 7,00 | 8,00 | 10,00 | 13,10 |
| | Rated Input | kW | 2,00 | 2,19 | 2,62 | 3,33 | 4,85 |
| | COP | | 3,00 | 3,20 | 3,05 | 3,00 | 2,70 |
| Cooling A35W18 ⁴ | Capacity | kW | 6,50 | 8,30 | 990 | 12,00 | 14,90 |
| | Rated Input | kW | 1,35 | 1,64 | 2,18 | 3,04 | 4,38 |
| | EER | | 4,80 | 5,05 | 4,55 | 3,95 | 3,40 |
| Cooling A35W7 ⁵ | Capacity | kW | 7,00 | 7,45 | 8,20 | 11,50 | 14,00 |
| | Rated Input | kW | 2,33 | 2,22 | 2,52 | 4,18 | 5,60 |
| | EER | | 3,00 | 3,35 | 3,25 | 2,75 | 2,50 |
| Energy Efficiency Class ⁶ | Water Outlet at 35°C | Class | A+++ | | | | |
| | Water Outlet at 55°C | Class | A++ | | | | |
| SCOP ⁶ | | 35°C | 4,95 | 5,22 | 5,2 | 4,81 | 4,62 |
| | | 55°C | 3,52 | 3,37 | 3,47 | 3,45 | 3,41 |
| SEER ⁶ | | 7°C | 5,31 | 5,82 | 5,95 | 4,40 | 4,85 |
| | | 18°C | 8,22 | 8,94 | 8,73 | 7,07 | 6,89 |
| Refrigerant | Type (GWP) / Quantity, kg | | R32 (675) / 1,4 | | | R32 (675) / 1,75 | |
| Compressor | | | DC Two Rotor Inverter | | | | |
| Heat Exchanger | | | Plate, Soldered | | | | |
| Fan | | | DC Electric Motor | | | | |
| Number of Fans | | | 1 | | | | |
| Circulation Pump | Type | | DC, Electronic | | | | |
| | Max. Lifting Height | m | 9 | | | | |
| | Capacity | W | 5~90 | | | | |
| Nominal Water Flow | | m³/h | 1,09 | 1,44 | 1,72 | 2,08 | 2,73 |
| Operating Limits for Water Flow | | m³/h | 0,4 ~ 1,25 | 0,4 ~ 1,65 | 0,4 ~ 2,1 | 0,7 ~ 2,5 | 0,7 ~ 3,0 |
| Water Piping Connection | | | R1" | R1 1/4" | | | |
| Sound Power Level ⁷ | | dB (A) | 58 | 59 | 60 | 65 | 68 |
| Sound Pressure Level (1m) | | dB (A) | 47 | 48 | 50 | 53 | 58 |
| Dimensions (W x H x D) | | mm | 1295x792x429 | 1385x945x526 | | | |
| Packing Dimensions (W x H x D) | | mm | 1375x965x475 | 1465x1120x560 | | | |
| Net / Gross Weight | | kg | 103/ 126 | 126 / 153 | | 149 / 175 | |
| Ambient Temperature Range | Heating | °C | -25 ~ +35 | | | | |
| | Cooling | °C | -5 ~ +43 | | | | |
| | DHW | °C | -25 ~ +43 | | | | |
| LWT Setting Range | Heating | °C | +25 ~ +65 | | | | |
| | Cooling | °C | +5 ~ +25 | | | | |
| | DHW ¹⁰⁾ | °C | +30 ~ +60 | | | | |

| Outdoor Units | | | HOP18WMONO3 | HOP22WMONO3 | HOP26WMONO3 | HOP30WMONO3 |
|--------------------------------------|---------------------------|---------|-----------------------|-------------|-------------|-------------|
| Built-in Electric Heater | | kW | - | | | |
| Power Supply | | V/Ph/Hz | 380-415/3/50 | | | |
| Rated Power | | W | 10600 | 12500 | 13800 | 14500 |
| Rated Current | | A | 21 | 24,5 | 27 | 28,5 |
| Power Cable | | mm² | 5x6,0 | | | |
| Communication Cable, AWG18 Shielded | | mm² | 5x0,75 | | | |
| Automatic Switch | | A | C25 | | C32 | |
| Heating A7W35 ¹ | Capacity | kW | 18,00 | 22,00 | 26,00 | 30,10 |
| | Rated Input | kW | 3,83 | 5,00 | 6,37 | 7,70 |
| | COP | | 4,70 | 4,40 | 4,08 | 3,91 |
| Heating A7W45 ² | Capacity | kW | 18,00 | 22,00 | 26,00 | 30,00 |
| | Rated Input | kW | 5,14 | 6,47 | 8,39 | 10,35 |
| | COP | | 3,50 | 3,40 | 3,10 | 2,90 |
| Heating A7W55 ³ | Capacity | kW | 18,00 | 22,00 | 26,00 | 30,00 |
| | Rated Input | kW | 6,55 | 8,30 | 10,61 | 13,04 |
| | COP | | 2,75 | 2,65 | 2,45 | 2,30 |
| Heating A-7W35 ⁹ | Capacity | kW | 18,00 | 21,00 | 22,00 | 23,00 |
| | Rated Input | kW | 6,67 | 8,08 | 8,80 | 9,39 |
| | COP | | 2,70 | 2,60 | 2,50 | 2,45 |
| Cooling A35W18 ⁴ | Capacity | kW | 18,50 | 23,00 | 27,00 | 31,00 |
| | Rated Input | kW | 3,90 | 5,00 | 6,30 | 7,75 |
| | EER | | 4,75 | 4,60 | 4,30 | 4,00 |
| Cooling A35W7 ⁵ | Capacity | kW | 17,00 | 21,00 | 26,00 | 29,50 |
| | Rated Input | kW | 5,57 | 7,12 | 9,63 | 11,57 |
| | EER | | 3,05 | 2,95 | 2,70 | 2,55 |
| Energy Efficiency Class ⁶ | Water Outlet at 35°C | Class | A+++ | | | |
| | Water Outlet at 55°C | Class | A++ | | A+ | |
| SCOP ⁶ | | 35°C | 4,6 | 4,53 | 4,5 | 4,2 |
| | | 55°C | 3,2 | 3,23 | 3,15 | 3,15 |
| SEER ⁶ | | 7°C | 4,7 | 4,7 | 4,66 | 4,49 |
| | | 18°C | 5,48 | 5,67 | 5,88 | 5,71 |
| Refrigerant | Type (GWP) / Quantity, kg | | R32 (675) / 5,0 | | | |
| Compressor | | | DC Two Rotor Inverter | | | |
| Heat Exchanger | | | Plate, Soldered | | | |
| Fan | | | DC, Electric Motor | | | |
| Number of Fans | | | 2 | | | |
| Circulation Pump | Type | | DC, Electronic | | | |
| | Max. Lifting Height | m | 12 | | | |
| | Capacity | W | 10 ~ 305 | | | |
| Nominal Water Flow | | m³/h | 3,1 | 3,78 | 4,47 | 5,18 |
| Operating Limits for Water Flow | | m³/h | | | | |
| Water Piping Connection | | | R1 1/4" | R1 1/4" | R1 1/4" | R1 1/4" |
| Sound Power Level ⁷ | | dB (A) | 71 | 73 | 75 | 77 |
| Sound Pressure Level (1m) | | dB (A) | 58 | 60 | 61 | 63 |
| Dimensions (W x H x D) | | mm | 1129x1558x440 | | | |
| Packing Dimensions (W x H x D) | | mm | 1220x1735x565 | | | |
| Net / Gross Weight | | kg | 177 / 206 | | | |
| Ambient Temperature Range | Heating | °C | -25 ~ +35 | | | |
| | Cooling | °C | -5 ~ +43 | | | |
| | DHW | °C | -25 ~ +43 | | | |
| LWT Setting Range | Heating | °C | +25 ~ +65 | | | |
| | Cooling | °C | +5 ~ +25 | | | |
| | DHW ¹⁰ | °C | +30 ~ +60 | | | |

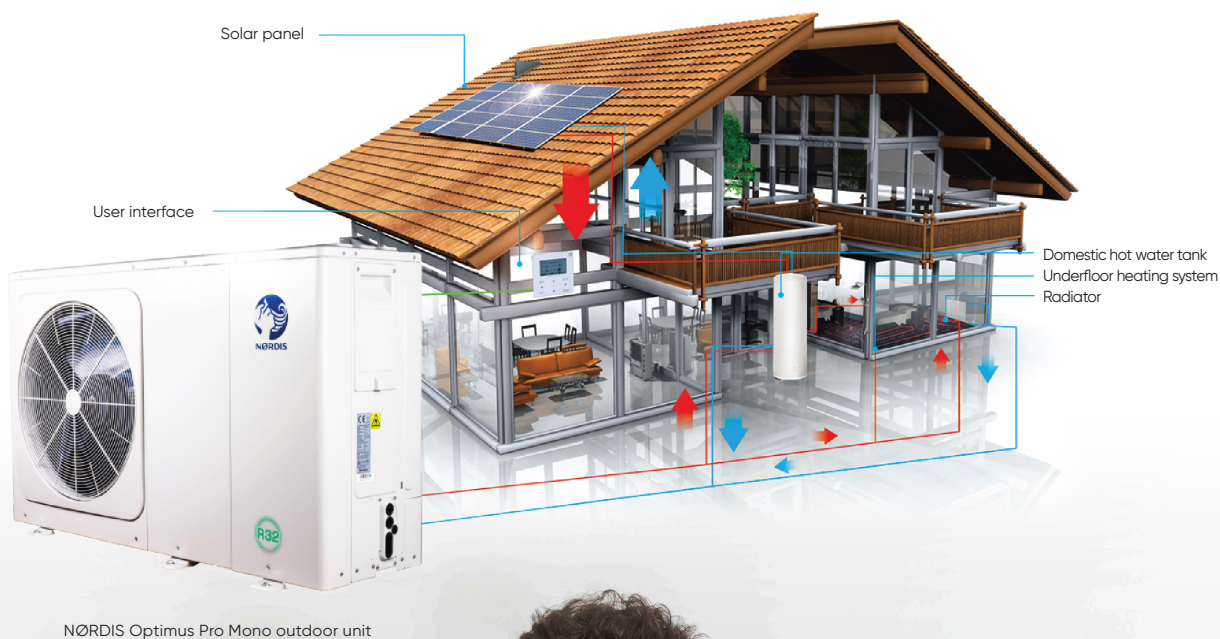
NØRDIS AIR-TO-WATER HEAT PUMP APPLICATION FOR AN INTEGRATED HOME SYSTEM

Series multifunctionality

NØRDIS heat pumps are integrated systems designed for year-round space heating, cooling, and domestic hot water preparation. They can replace traditional gas or solid fuel heating systems or operate alongside them. Heat pumps are compatible with underfloor heating, radiators, fan coil units, and domestic hot water systems. They can also be connected to solar panels and other heat sources.



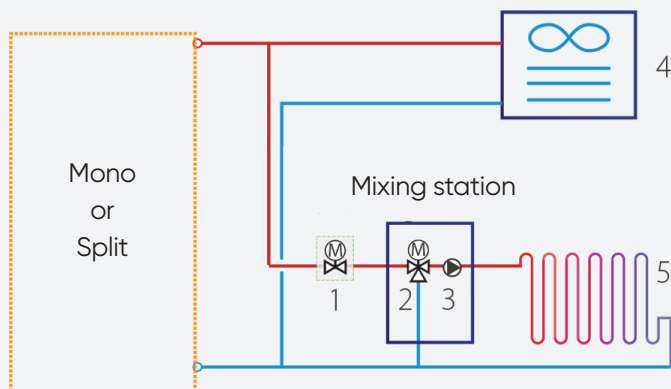
The "Smart Grid" certification indicates that NØRDIS heat pumps can optimally utilize electricity from various sources (at different price levels), such as solar photovoltaic systems or municipal power grids, to meet the demands of various operating modes and significantly contribute to cost savings.





HEATING AND COOLING

Grindinis šildymas naudojamas patalpų šildymui, o ventiliatoriniai konvektoriai – šildymui ir vėsinimui. Šildymo režimu, grindų šildymo sistemai ir ventiliatoriniams konvektoriams reikia skirtingų darbinių tiekiamo vandens temperatūrų. Vandens pamaišymo mazgas (tiekiamas atskirai), kurį sudaro 3-jų eigų vožtuvas ir cirkuliacinis siurblys, naudojamas vandens temperatūrai pritaikyti grindų šildymo sistemai. Pamaišymo mazgą valdo šilumos siurblys. Vėsinimo režime naudojamas 2-jų eigų vožtuvas, kad būtų išvengta šalto vandens patekimo į grindų šildymo kontūrus ir nesusidarytų kondensatas.

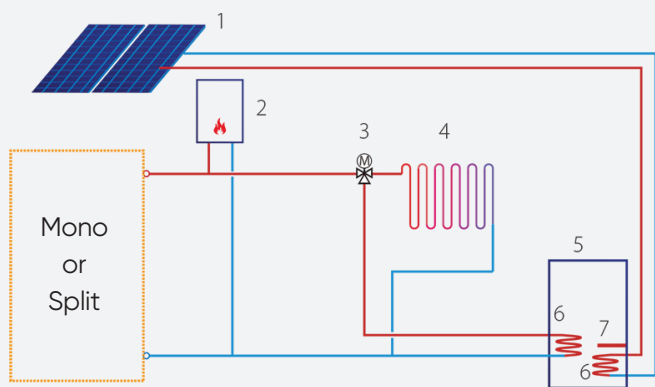


Notes:

1. 2-way valve (supplied separately).
2. 3-way valve (supplied separately).
3. Circulation pump (supplied separately).
4. Fan coil unit (supplied separately).
5. Underfloor heating system (supplied separately).

HEATING, DOMESTIC HOT WATER PREPARATION (DHW), AND EXTERNAL HEAT SOURCES

The backup electric heater (integrated into the unit) and an external heat source (e.g., gas boiler) provide additional heat to the water prepared by the heat pump. The auxiliary electric heater in the DHW tank and solar panels supply additional heat to the hot water system. A 3-way valve is used to switch between the heating system and domestic hot water preparation.



Notes:

1. Solar panels (supplied separately)
2. External heat source (supplied separately or existing in a renovated system)
3. 3-way valve (supplied separately)
4. Underfloor heating system (supplied separately)
5. Domestic hot water (DHW) tank (supplied separately)
6. DHW tank heat exchanger (supplied separately)
7. DHW tank auxiliary electric heater (supplied separately)

TWO-ZONE CONTROL

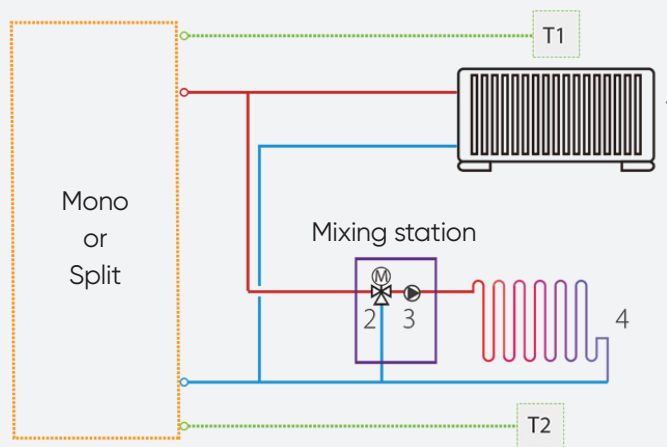
Two-zone control is available only in heating mode. The unit can manage different zones to deliver varying temperatures, meeting diverse daily usage needs.

1. Using only the device's wired controller

The wired controller is used to set the operating mode, temperatures, and to turn the device on/off. Zone 1 is controlled based on the supply water temperature, while Zone 2 is controlled either by the supply water temperature or the room temperature sensor built into the wired controller.

2. Using the device's wired controller and a thermostat

The wired controller is used to set the operating mode and water temperature. Both zones are controlled via the thermostat.



Notes:

1. Radiator (supplied separately)
 2. 3-way valve (supplied separately)
 3. Circulation pump (supplied separately)
 4. Underfloor heating system (supplied separately)
- T1, T2 – room thermostats (supplied separately)

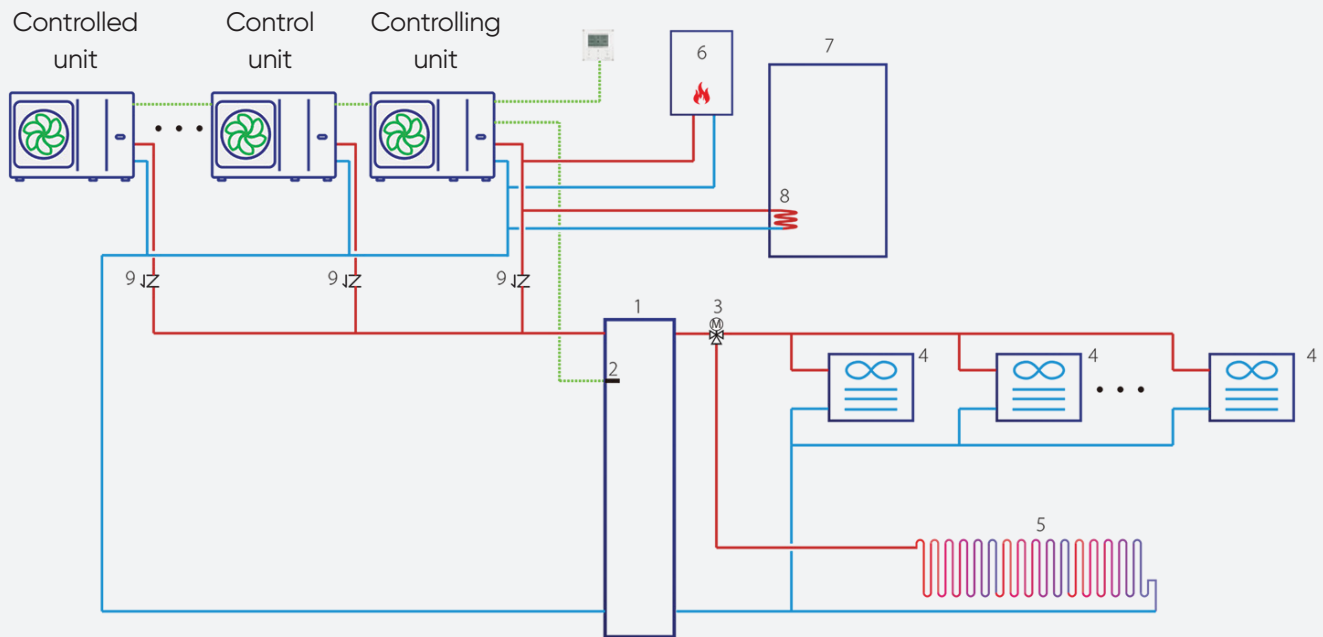


PARALLEL MONO UNIT CONNECTION (CASCADE)

Parallel Mono unit connection is an ideal solution for expanding system capacity when heating/cooling demands increase. Up to 6 units in a single system can be managed with one controller. The control of the water temperature in the accumulation (buffer) tank ensures optimal system performance.

The hot water preparation tank can only be connected to the primary unit's circulation system via a 3-way valve and is controlled by the primary unit.

An external heat source can also only be connected to the primary unit's circulation system and is managed by the primary unit.



Notes:

1. Accumulation (buffer) tank (supplied separately)
2. Accumulation (buffer) tank temperature sensor (supplied separately)
3. 3-way valve (supplied separately)
4. Fan coil unit (supplied separately)
5. Underfloor heating system (supplied separately)
6. External heat source (supplied separately or existing in a renovated system)
7. Domestic hot water (DHW) tank (supplied separately)
8. DHW tank heat exchanger (supplied separately)
9. Check valve (supplied separately)

With just a few clicks, you can find out the Nordis heat pump that is right for your home.

Enter the heat demand for heating: W/m²

Or choose the energy class of your home:

☐ A++^① ☐ A+^② ☐ A^③ ☐ B^④ ☐ C^⑤ ☐ D^⑥

Will the heat pump prepare domestic hot water? ☐ Yes ☒ No

Calculate

Quickly and easily calculate a preliminarily suitable NØRDIS series air-to-water heat pump for a specific property.

[illegible]

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¹ Air temperature +7°C, 85% RH, water temperature +30/35°C.

² Air temperature +7°C, 85% RH, water temperature +40/45°C.

³ Air temperature +7°C, 85% RH, water temperature +47/55°C.

⁴ Air temperature +35°C, water temperature +23/18°C.

⁵ Air temperature +35°C, water temperature +12/7°C.

⁶ Defined under moderate climate zone conditions.

⁷ Tested according to the EN12102-1 standard.

⁸ If a three-phase 9kW electric heater is installed, 3kW and 6kW power levels can be selected accordingly by switching DIP micro-switches on the board.

⁹ Air temperature -7°C, 85% RH, water temperature +30/35°C.

¹⁰ In the MONO unit, the maximum 60°C hot water temperature is achieved only with an additional electric heater.

¹¹ The nominal power is specified including the built-in electric heater.

NØRDIS REPRESENTATIVES:

www.nordis-ac.com