



## CATALOG



FOR  
HEATED FLOORS



FOR  
RADIATORS



FOR  
HOT WATER



FOR  
COOLING



FOR  
VENTILATION

HEAT PUMPS DHW TANKS  
AIR HANDLING UNITS (AHU)

# HEAT PUMPS

## „Norwian Ecoplus“

The economical Norwian Ecoplus air-to-water heat pumps have been developed in response to the Scandinavian climate and experience, and provide space heating and hot water with significantly lower energy consumption than other heating systems.

Norwian Ecoplus are efficient and low-energy installations that generate significantly more energy than they consume and are perfectly suited for all types of houses (new construction, old buildings, renovations).

"Norwian Ecoplus" heat pumps use R290 refrigerant (GWP =3), which is **30% more efficient** than R32 refrigerant and have a two-rotor inverter compressors.

**They are suitable for different heating systems** (underfloor heating, radiators, fan coils and domestic hot water preparation). Therefore, it will not be necessary to redo the entire heating system when connecting.





## ADVANTAGES

<p><b>A+++ CLASS</b></p>	A+++ / A++ energy class.	<p><b>R 290</b></p>	The R 290 refrigerant used is characterized by minimal impact on the environment (GWP = 3).
<p><b>+ 75 °C</b></p>	The temperature of the water being prepared is up to +75 °C.	<p><b>- 25 °C</b></p>	Works effectively when the outside temperatures fall to -25 °C.
<p><b>Wi-Fi CONTROL</b></p>	Wi-Fi control.	<p><b>DEFROSTING</b></p>	Antifreeze function.
<p><b>E-HEATER</b></p>	Integrated electric heater 3 kW - 9 kW (depending on the model).	<p><b>COMPRESSOR HEATER</b> <b>CRANKCASE HEATER</b></p>	Outdoor block bottom heating cable. Compressor crankcase heater.
<p><b>FOR ALL TYPES</b></p>	Suitable for all types of houses, you won't have to redo the existing heating systems.	<p><b>MIXED HEATING</b></p>	Posibility to control different heating contours (underfloor heating and radiators). Menu in English, Russian (you can choose one of 6 languages).
<p><b>REMOTE MONITORING</b></p>	Remote monitoring - allows the service unit (with the help of the customer) to connect to the installed heat pumps and diagnose / remedy faults.	<p><b>ECONOMY</b></p>	Efficient and low energy consumption; generate significantly more energy than they consume.
<p><b>SILENT</b></p>	Quiet operation, iup to 37 dB.	<p><b>WARRANTY</b></p>	Warranty up to 5 years. Additional conditions apply.

## SPECIFICATION

Parameters		Models			
		Norwian Ecoplus 60	Norwian Ecoplus 90	Norwian Ecoplus 120 TRI	Norwian Ecoplus 160 TRI
Heating (A 7/6 °C, W30/35 °C )					
Heating power		1,5-6,27 kW	2-9,15 kW	3-12,2 kW	4-16,2 kW
Input power		1,36 kW	1,99 kW	2,61 kW	3,5 kW
Current		5,91 A	8,83 A	4,41 A	5,89 A
COP		4,62	4,58	4,67	4,61
SCOP		4,71	4,89	4,77	4,77
Heating (A 7/6 °C, W47/55 °C )					
Heating power		6,06 kW	9,12 kW	12,20 kW	16,17 kW
Input power		2,03 kW	3,07 kW	4,03 kW	5,30 kW
COP		2,99	2,97	3,03	3,05
SCOP		3,71	3,72	3,73	3,75
Cooling (A 7/6 °C, W23/18 °C )					
Cooling power		6,3 kW	9,02 kW	11,30 kW	15,20 kW
Input power		1,62 kW	2,33 kW	2,91 kW	3,98 kW
EER		3,88	3,87	3,88	3,82
Refrigerant (type)		R290 (propane)			
Plate heat exchanger		Danfoss			
Circulation pump		Grundfos			
Compressor		GMCC			
Water resistance class		IPX4	IPX4	IPX4	IPX4
Water connection diameter	in	DN 25 (G1")	DN 25 (G1")	DN 25 (G1")	DN 25 (G1")
Electrical heater	kW	3 kW, single phase	3 kW, single phase	6 kW, three phase	9 kW, three phase
Expansion vessel	L	5	5	5	5
Internal pressure drop at rated flow	kPa	22	40	50	50
Nominal water flow	m³/h	1,1	1,6	2,8	2,8
Power supply (frequency)	V	220 - 240 (~50Hz)	220 - 240 (~50Hz)	380 - 415 (~50Hz)	380 - 415 (~50Hz)
Power cable	mm²	3 x 2,5 mm²	3 x 2,5 mm²	5 x 1,5 mm²	5 x 1,5 mm²
Maximum input current	A	12,0	15,0	8,0	11,0
Refrigerant weight	kg	0,55	0,75	1,4	1,7
CO <sub>2</sub> Equivalent	t	0,0016	0,0023	0,0043	0,0051
Min./Max. heating water pressure	bar	0,5 / 3,0	0,5 / 3,0	0,5 / 3,0	0,5 / 3,0
Max. supply water temperature	°C	75	75	75	75
Operating temperature (in heating)	°C	-25 / 45	-25 / 45	-25 / 45	-25 / 45
Operating temperature (in cooling)	°C	15 / 45	15 / 45	15 / 45	15 / 45
Sound level (1 m / 5 m)	dB	51 / 37	53 / 39	54 / 40	56 / 43
External block dimensions w/d/h	mm	976 / 450 / 688	1105 / 450 / 835	1105 / 450 / 835	1106 / 450 / 1603
Weight of outdoor block	kg	70	80	90	160
Indoor block dimensions w/d/h	mm	386 / 274 / 667	386 / 274 / 667	386 / 274 / 667	386 / 274 / 667
Indoor block weight	kg	34	34	34	34

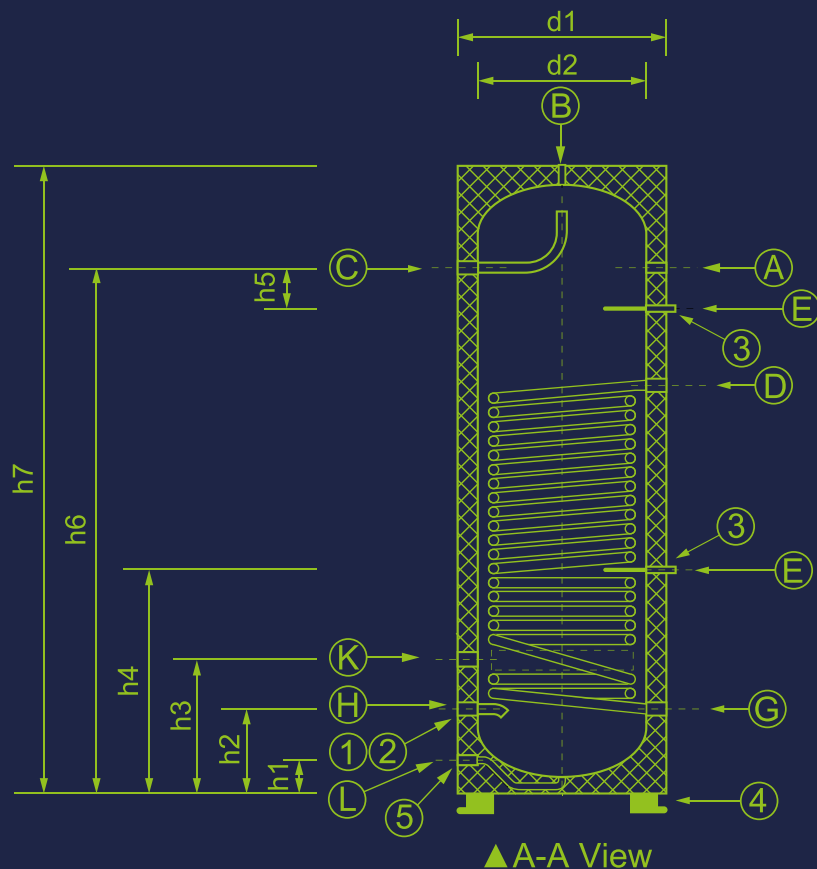
# DHW TANKS

## „Norwian MWT-C“

The „Norwian MWT-C“ stainless steel DHW tanks can be selected according to your household's hot water needs, from 200 or 300 liters capacity. Designed for use in heat pump systems, they feature a large (from 2 to 3 m<sup>2</sup>) heat exchanger area.

- 1 – Adapter from 1" to ¾"
- 2 – Safety valve ¾"
- 3 – Temperature sensor ⅜" or ½"
- 4 – Plastic abutments 3 cm
- 5 – Water outlet ½"
- A – T/P valve G ¾" - F
- B – Draining G ½" - F
- C – Hot water supply G 1" - F
- D – Heat exchanger inlet G 1" - F
- E – Temperature sensor 2 x G ⅜" - F
- H – Cold water supply G 1" - F
- K – Electrical heater G ½" - F
- L – Water discharge G ½" - F

Dydis	MWT-200/C	MWT-300/C
h1	85 mm	85 mm
h2	225 mm	225 mm
h3	375 mm	375 mm
h4	705 mm	705 mm
h5	100 mm	100 mm
h6	1345 mm	1345 mm
h7	1572 mm	1572 mm
d1	Ø 520 mm	Ø 600 mm
d2	Ø 420 mm	Ø 500 mm



# MULTIFUNCTIONAL TANK

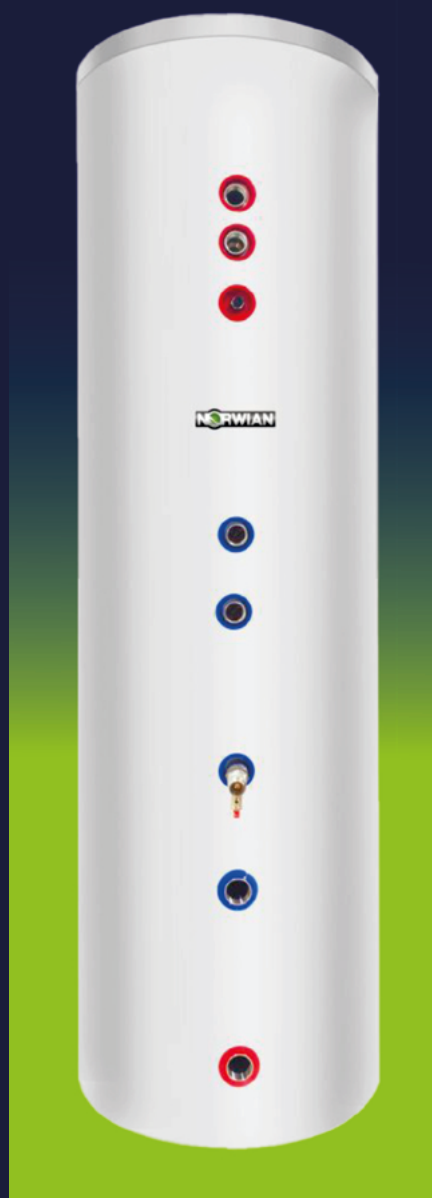
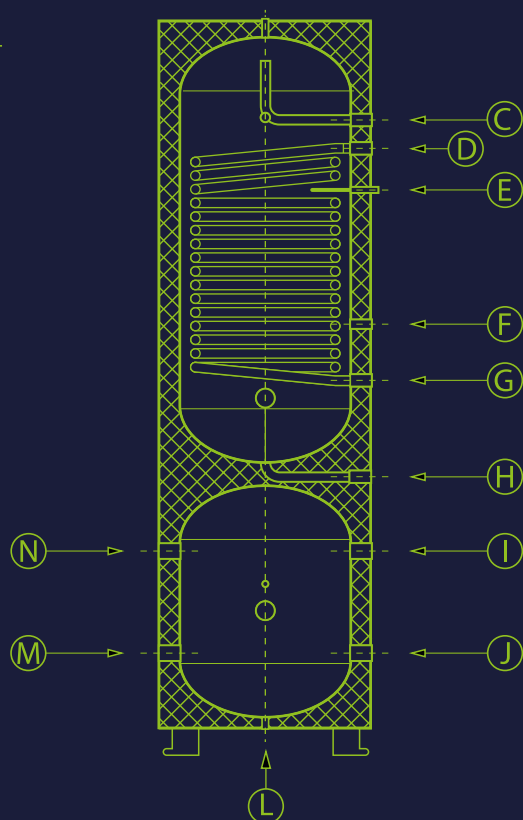
## “Norwian MWT”

“The Norwian MWT” multifunctional tank combines two tanks. A hot domestic water boiler with a high-speed heat exchanger is at the top and a storage tank at the bottom. This saves space in the house, ensures maximum comfort and stable operation of the heat pump.

- A** – Magnesium anode G ¾" - F
- B** – Swallowing G ½" - F
- C** – Hot domestic water G 1" - F
- D** – HX coil input G 1" - F
- E** – Sensor G ½" - F
- F** – Circulating G ¾" - F
- G** – HX coil output G 1" - F
- H** – Cold drinking water G 1" - F
- I** – Supplied to the system G 1-¼" - F
- J** – Return from system G 1-¼" - F
- Q** – Electric heater G 1-½" - F
- L** – Outlet G ½" - F
- N** – Supplied from heat pump G 1-¼" - F
- M** – Return to heat pump G 1-¼" - F

Sizes	MWT-200	MWT-300
Diameter, mm	Ø 470	Ø 470
Height, mm	1550	1870
Insulation, mm	45	45
Total capacity, l	200	300
Boiler capacity, l	150	200
Storage capacity, l	30	80

A-A View

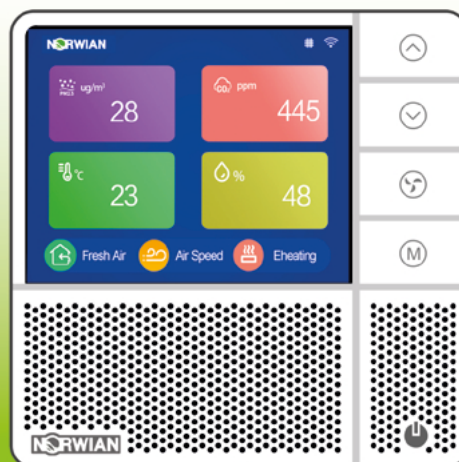


# AIR HANDLING UNITS (AHU)

## „Norwian AIR“

Air handling units "Norwian AIR" are equipped with an **enthalpy heat exchanger** that returns the humidity extracted from the indoor exhaust air to the supplied outdoor air. This prevents the indoor air from drying out and maintains the humidity for a more comfortable living environment. For that reason, the AHU does not need condensate drainage to the sewage system.

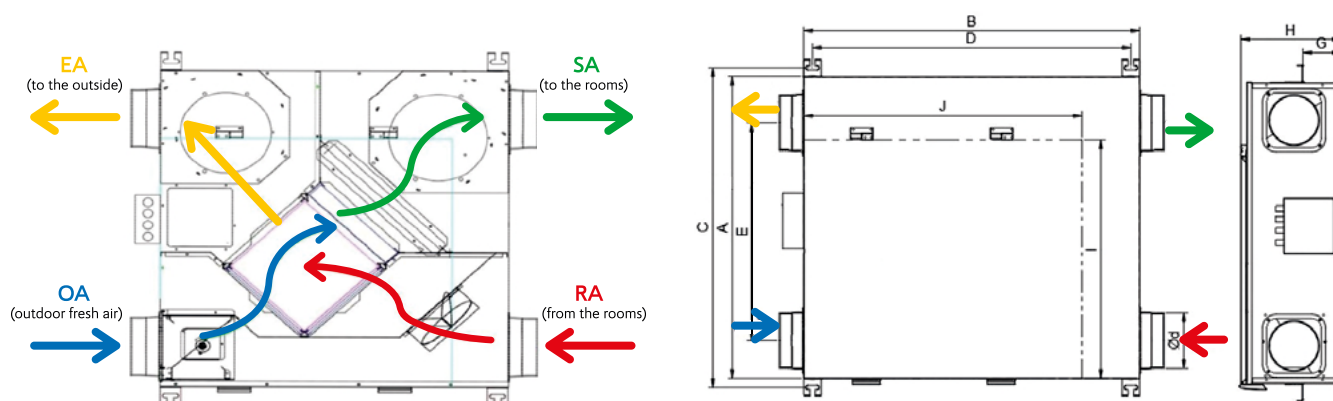
Thanks to its flat shape (MAX 290 mm), the recuperator takes up little space and can be mounted both on the wall and on the ceiling. It can also be installed by connecting ducts both horizontally and vertically.




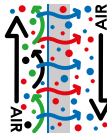

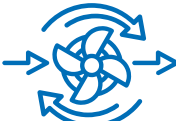




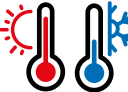

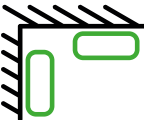
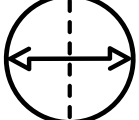
- Measurement of air pollution
- Humidity measurement
- CO<sub>2</sub> control
- Room temperature
- Protection against freezing
- Filter contamination
- Weekly programming
- Wi-Fi control

Models	Dimensions, mm									
	A	B	C	D	E	G	H	I	J	Ø
Norwian AIR 250	860	860	910	810	620	110	270	660	735	158
Norwian AIR 400	860	960	910	910	620	110	290	680	795	194
Norwian AIR 500	860	960	910	910	620	110	290	680	795	194

Parametrai	Norwian AIR 250	Norwian AIR 400	Norwian AIR 500
Air flow at 100 Pa (m³/h)	250	400	500
Coefficient of efficiency (%)	73-82	74-81	72-80
Noise level dB (A)	36	38	39
Energy consumption (without teno) (W)	110	168	225
Electric heater	500 x 2	750 x 2	
Power supply (voltage / frequency)	110-240 V / 50 (60) Hz		
Thermal energy recovery (%)	Up to 83%		
Filtration efficiency (%)	99%		
Control	Room controller with LCD screen, Wi-Fi control, Rs485 interface		
Filters	Primary filter (washable) + H12 Hepa filter		
Operating temperature (°C )	-25 ~40		
Mounting	Ceiling / wall		
Duck diameter (mm)	Ø 160	Ø 200	Ø 200



## ADVANTAGES

 <b>Wi-Fi CONTROL</b>	<p>Full control via Wi-Fi connection through a mobile application that allows you to monitor indoor air parameters and control the recuperator remotely.</p>	 <b>ENTHALPY</b>	<p>The enthalpy heat exchanger returns moisture from the exhaust air, which prevents the air from drying out and maintains a comfortable indoor humidity.</p>
 <b>~36 dB</b>	<p>Quiet operation 36 dB (depending on the model).</p>	 <b>DC</b>	<p>DC fans are extremely quiet and use little energy. Direct current fan motors (BLDC) can reduce energy consumption up to 70%.</p>
 <b>ENERGY SAVING</b>	<p>Power consumption (min./max.) from 40 W to 225 W.</p>	 <b>A CLASS</b>	<p>A – energy efficiency class.</p>
 <b>E-HEATER</b>	<p>Installed electrical heater from 1 kW iki 1,5 kW (depending on the model).</p>	 <b>DEFROSTING</b>	<p>Automatic antifreeze mode.</p>
 <b><math>\eta = 73-82\%</math></b>	<p>Temperature efficiency 73-82%.</p>	 <b>NO DRAINAGE</b>	<p>No drainage required.</p>
 <b>up to 30 cm</b>	<p>Compact. Installation methods: ceiling / wall.</p>	 <b>Ø 160 / 200 mm</b>	<p>Duct diameter 160 mm or 200 mm (depending on the model).</p>



## WHY SHOULD YOU CHOOSE US?

Our commitment to quality and reliability is our competitive advantage, offering a perfect product quality/price ratio, warranty, and post-warranty service.

Our company is dedicated to continuous improvement and expansion, always on the lookout for innovative and reliable suppliers.

Our primary goal is to be a reliable supplier, committed to providing top-quality products for heating, ventilation, and plumbing.

When it comes to our products, we understand that quality, durability, reliability, and competitive advantage are not just features, but the essence of what our customers value.

[www.norwian.eu](http://www.norwian.eu)

