



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	9,90	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.



NØRDIS Optimus Pro Mono outdoor unit

