



# NØRDIS Optimus Pro Mono

## INTEGRATED AIR-TO-WATER HEAT PUMPS

DC Inverter



The NØRDIS Optimus Pro monoblocks are highly efficient air-to-water heat pumps with low energy consumption. The entire heating system is housed in a universal unit that is installed outdoors. This makes it ideal for homes that do not have adjoining rooms for additional heat pump units. The unit is easy and quick to install.

The NØRDIS Optimus Pro monoblocks are perfectly compatible with any other heating or hot water system already installed in your home. The units ensure low energy consumption, a high energy rating and excellent heating and cooling performance.

## OUTDOOR MODULES

### FEATURES

- High energy efficiency class A+++ for energy saving;
- Refrigerant R32 75% less impact on global warming;
- DC inverter technology enables precise consumption under real load;
- Minimum operation ambient temperature down to -25°C;
- Extremely quiet - two silent modes;
- Smart Grid certification;
- Advanced wired controller for easy operation;
- Integrated WiFi module for unit control by smart-phone.





Išorinių blokų modeliai		HOP4W MONO	HOP6W MONO	HOP8W MONO	HOP10W MONO	HOP12W MONO	HOP14W MONO	HOP16W MONO	
Built-in electric heater	kW	3							
Power supply	V/Ph/Hz	220-240/1/50							
Rated power	W	5300 <sup>11</sup>	5700 <sup>11</sup>	6400 <sup>11</sup>	6700 <sup>11</sup>	8500 <sup>11</sup>	8800 <sup>11</sup>	9200 <sup>11</sup>	
Rated current	A	25	27	29	30	38	39	40	
Power cable	mm <sup>2</sup>	3x4,0		3x6,0		3x10,0			
Communication cable, AWG18 shielded	mm <sup>2</sup>	5x0,75							
Automatic switch	A	C32				C40			
Heating A7W35 <sup>1</sup>	Capacity	kW	4,20	6,35	8,40	10,00	12,10	14,50	15,90
	Rated input	kW	0,82	1,28	1,63	2,02	2,44	3,15	3,53
	COP		5,10	4,95	5,15	4,95	4,95	4,60	4,50
Heating A7W45 <sup>2</sup>	Capacity	kW	4,30	6,30	8,10	10,00	12,30	14,10	16,00
	Rated input	kW	1,13	1,70	2,10	2,67	3,32	3,92	4,57
	COP		3,80	3,70	3,85	3,75	3,70	3,60	3,50
Heating A7W55 <sup>3</sup>	Capacity	kW	4,40	6,00	7,50	9,50	11,90	13,80	16,00
	Rated input	kW	1,49	2,03	2,36	3,06	3,90	4,68	5,61
	COP		2,95	2,95	3,18	3,10	3,05	2,95	2,85
Heating A-7W35 <sup>9</sup>	Capacity	kW	4,70	6,00	7,00	8,00	10,00	12,00	13,10
	Rated input	kW	1,52	2,00	2,19	2,62	3,33	4,21	4,85
	COP		3,10	3,00	3,20	3,05	3,00	2,85	2,70
Cooling A35W18 <sup>4</sup>	Capacity	kW	4,50	6,50	8,30	9,90	12,00	13,50	14,90
	Rated input	kW	0,82	1,35	1,64	2,18	3,04	3,75	4,38
	EER		5,50	4,80	5,05	4,55	3,95	3,60	3,40
Cooling A35W7 <sup>5</sup>	Capacity	kW	4,70	7,00	7,45	8,20	11,50	12,40	14,00
	Rated input	kW	1,36	2,33	2,22	2,52	4,18	4,96	5,60
	EER		3,45	3,00	3,35	3,25	2,75	2,50	2,50
Seasonal space heating energy efficiency class <sup>6</sup>	Water outlet at 35°C	class	A+++						
	Water outlet at 55°C	class	A++						
SCOP <sup>6</sup>	35°C		4,85	4,95	5,22	5,2	4,81	4,72	4,62
	55°C		3,31	3,52	3,37	3,47	3,45	3,47	3,41
Refrigerant	Type (GWP)		R32 (675)						
	Charged volume	kg	1,4			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	m <sup>3</sup> /h	0,72	1,09	1,44	1,72	2,08	2,49	2,73	
Operating limits for water flow	m <sup>3</sup> /h	0,4 ~ 0,9	0,4 ~ 1,25	0,4 ~ 1,65	0,4 ~ 2,1	0,7 ~ 2,5	0,7 ~ 2,75	0,7 ~ 3,0	
Water piping connection		R1"			R1 1/4"				
Sound power Level <sup>7</sup>	dB(A)	55	58	59	60	65	65	68	
Dimension (W×H×D)	mm	1295x792x429			1385x945x526				
Packing dimension (W×H×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 <sup>10</sup>	°C	+30 ~ +60						



Outdoor unit model			HOP12W MON03	HOP14W MON03	HOP16W MON03	HOP18W MON03	HOP22W MON03	HOP26W MON03	HOP30W MON03
Power supply		V/Ph/Hz	380-415/3/50						
Heating A7W35 <sup>1</sup>	Capacity	kW	12,10	14,50	15,90	18,00	22,00	26,00	30,10
	Rated input	kW	2,44	3,15	3,53	3,83	5,00	6,37	7,70
	COP		4,95	4,60	4,50	4,70	4,40	4,08	3,91
Heating A7W45 <sup>2</sup>	Capacity	kW	12,30	14,10	16,00	18,00	22,00	26,00	30,00
	Rated input	kW	3,32	3,92	4,57	5,14	6,47	8,39	10,35
	COP		3,70	3,60	3,50	3,50	3,40	3,10	2,90
Heating A7W55 <sup>3</sup>	Capacity	kW	11,90	13,80	16,00	18,00	22,00	26,00	30,00
	Rated input	kW	3,90	4,68	5,61	6,55	8,30	10,61	13,04
	COP		3,05	2,95	2,85	2,75	2,65	2,45	2,30
Heating A-7W35 <sup>9</sup>	Capacity	kW	10,00	12,00	13,10	18,00	21,00	22,00	23,00
	Rated input	kW	3,33	4,21	4,85	6,67	8,08	8,80	9,39
	COP		3,00	2,85	2,70	2,70	2,60	2,50	2,45
Cooling A35W18 <sup>4</sup>	Capacity	kW	12,00	13,50	14,90	18,50	23,00	27,00	31,00
	Rated input	kW	3,04	3,75	4,38	3,90	5,00	6,30	7,75
	EER		3,95	3,60	3,40	4,75	4,60	4,30	4,00
Cooling A35W7 <sup>5</sup>	Capacity	kW	11,50	12,40	14,00	17,00	21,00	26,00	29,50
	Rated input	kW	4,18	4,96	5,60	5,57	7,12	9,63	11,57
	EER		2,75	2,50	2,50	3,05	2,95	2,70	2,55
Seasonal space heating energy efficiency class <sup>6</sup>	Water outlet at 35°C	class	A+++						
	Water outlet at 55°C	class	A++						
SCOP <sup>6</sup>	35°C		4,81	4,72	4,62	4,6	4,53	4,5	4,2
	55°C		3,45	3,47	3,41	3,2	3,23	3,15	3,15
SEER <sup>6</sup>	7°C					4,7	4,7	4,66	4,49
	18°C					5,48	5,67	5,88	5,71
Refrigerant	Type (GWP)		R32 (675)						
	Charged volume	kg	1,75			5,00			
Compressor			DC two rotor inverter						
Heat exchanger			Plate, soldered						
Fan			DC electric motor						
Number of fans			1			2			
Circulation pump	Type		DC, electronic						
	Max. lifting height	m	9			12			
	Capacity	W	5 ~ 90			10 ~ 305			
Nominal water flow		m <sup>3</sup> /h	2,08	2,49	2,73	3,1	3,78	4,47	5,18
Operating limits for water flow		m <sup>3</sup> /h	0,7 ~ 2,5	0,7 ~ 2,75	0,7 ~ 3,0				
Water piping connection			R1 1/4"						
Sound power Level <sup>7</sup>		dB	65	65	68	71	73	75	77
Dimension (W×H×D)		mm	1385x945x526			1129x1558x440			
Packing dimension (W×H×D)		mm	1465x1120x560			1220x1735x565			
Net / Gross weight		kg	160 / 188			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 <sup>10</sup>	°C	+30 ~ +60						