

## Technical Data

### NØRDIS Optimus Pro Mono for residential premises



Outdoor Units			HOP6WMONO	HOP8WMONO	HOP10WMONO	HOP12WMONO3	HOP16WMONO3	
Built-in Electric Heater			kW			3		9
Power Supply			V/Ph/Hz			220-240/1/50		380-415/3/50
Rated Power			W	570011	640011	670011	1450011	1520011
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 <sup>1</sup>	Capacity	kW	6,35	8,4	10	12,1	15,9	
	Rated Input	kW	1,28	1,63	2,02	2,44	3,53	
	COP		4,95	5,15	4,95	4,95	4,5	
Heating A7W45 <sup>2</sup>	Capacity	kW	6,3	8,1	10	12,3	16	
	Rated Input	kW	1,7	2,1	2,67	3,32	4,57	
	COP		3,7	3,85	3,75	3,7	3,5	
Heating A7W55 <sup>3</sup>	Capacity	kW	6	7,5	9,5	11,9	16	
	Rated Input	kW	2,03	2,36	3,06	3,9	5,61	
	COP		2,95	3,18	3,1	3,05	2,85	
Heating A-7W35 <sup>9</sup>	Capacity	kW	6	7	8	10	13,1	
	Rated Input	kW	2	2,19	2,62	3,33	4,85	
	COP		3	3,2	3,05	3	2,7	
Cooling A35W18 <sup>4</sup>	Capacity	kW	6,5	8,3	9,9	12	14,9	
	Rated Input	kW	1,35	1,64	2,18	3,04	4,38	
	EER		4,8	5,05	4,55	3,95	3,4	
Cooling A35W7 <sup>5</sup>	Capacity	kW	7	7,45	8,2	11,5	14	
	Rated Input	kW	2,33	2,22	2,52	4,18	5,6	
	EER		3	3,35	3,25	2,75	2,5	
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		4,95	5,22	5,2	4,81	4,62	
	55°C		3,52	3,37	3,47	3,45	3,41	
SEER	7°C		5,31	5,82	5,95	4,4	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	m <sup>3</sup> /h	1,09	1,44	1,72	2,08	2,73		
Operating Limits for Water Flow	m <sup>3</sup> /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	91 / 112	110 / 137		149 / 177			
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					

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

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

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

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

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

<sup>6</sup> Defined under moderate climate zone conditions.

<sup>7</sup> Tested according to the EN12102-1 standard.

<sup>8</sup> 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.

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

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

<sup>11</sup> The nominal power is specified including the built-in electric heater.

Specifications may be changed without prior notice. For the actual device specifications, refer to the labels on the device.