



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	°C	-25 ~ +35				
	Cooling	°C	-5 ~ +43				
	DHW	°C	-25 ~ +43				



Efficient operation at outdoor temperatures as low as

-25°C



Maximum prepared water temperature

65°C



TECHNICAL DATA

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



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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) ⁸				
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							