



NØRDIS Optimus Pro Split

AIR TO WATER HEAT PUMPS

DC Inverter



The NØRDIS Optimus Pro Split series is based on DC technology. This technology optimises the motor speed and ensures a comfortable amount of heat in the room with the lowest electricity consumption, even when the outdoor temperature drops to -25°C.

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
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
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
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
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
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
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

FEATURES

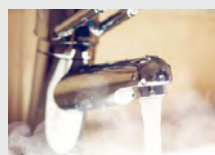
- High energy efficiency class A+++ for energy saving;
- Refrigerant R32 75% less impact on global warming;
- DC Inverter technology enables precise consumption at actual load;
- Minimum operation ambient temperature down to -25°C;
- Extremely quiet - two silent modes;
- Smart Grid certification.



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	mm ²	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 (col)	6,35 (1/4")	9,52 (3/8")			
	Gas phase	mm (col)	15,88 (5/8")				
Between the indoor and outdoor units	Height difference, max.	m	20				
	Pipe length, min.	m	3				
	Pipe length, max.	m	30				
Additional refrigerant charge	Quantity	g/m	20	38			
	Pipe length	m	maks.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	1008x712x426	1118x865x523				
Dimension of Package (W x H x D)	mm	1065x810x485	1190x970x560				
Net / Gross weight	kg	60 / 65,5	78,5 / 92		116 / 129,5		
Operation ambient temperature range	Heating	°C	-25 ~ +35				
	Cooling	°C	-5 ~ +43				
	DHW	°C	-25 ~ +43				



Ambient temperature down to **-25°C**



Water temperature up to **65°C**

NØRDIS Optimus Pro Split with DHW tank



FEATURES

- Integrated stainless steel water tank with 190 l or 240 l capacity;
- Modern wired controller for easy operation;
- Integrated WiFi module for device control by smartphone;
- *Wilo* circulation pump;
- *Alfa Laval* heat exchanger;
- Weather temperature curve function;
- DHW disinfection;
- Integrated additional electric water heater.

Air-to-water heat pumps with integrated hot water tank have two units with different power and volume. The latest technologies integrated in the units ensure high performance and the lowest operating costs. The combination of heat pump units offers optimal options for heating, cooling and hot water.

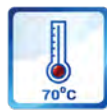
MULTIFUNCTIONALITY



DHW
Operation Priority



AUTO mode



Disinfect mode



ECO mode



Preset water
temperature



Fast DHW



Daily shedule



Water heater
190 / 240 l



NORDIS-AC.COM/COMMISSIONING

After purchasing the NØRDIS air-to-water heat pump, contact one of the companies listed on the nordis-ac.com website that employ certified NØRDIS equipment service and commissioning specialists. After inspection and evaluation of the equipment assembly, system installation and unit operation, the specialist:

- Programmes the parameters of the heat pump;
- Starts up the heating system and explains the operating instructions;
- Instructs the customer in the correct operation of the device;
- Explains the terms of the warranty.

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	mm ²	3x2,5				5x2,5					
Communication cable, AWG18 shielded	mm ²	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	653x1900x653						653x2160x653			
Circulation Pump	Type	DC, electronic									
	Maximum lifting height	m	9								
	Power	W	5~90								
Minimum water flow	m ³ /h	0,36						0,6			
Operating limits for water flow	m ³ /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 (col)	6,35 (1/4")	9,52 (3/8")		6,35 (1/4")	9,52 (3/8")				
	Gas phase	mm (col)	15,88 (5/8")								
Water pipe connection	Heating/cooling		R1"								
	Hot water preparation		R3/4"								
Net / Gross weight	kg	139 / 154						159 / 180			
Supply water temperature	Heating	°C	+12 ~ +65								
	Cooling	°C	+5 ~ +30								
	DHW	°C	+12 ~ +60								
Ambient temperature	°C	+5 ~ +35									
Water pressure in the heating/cooling systemsistemoje	bar	1 ~ 2,5									
Water pressure in the hot water system (cold water)	bar	1,5 ~ 3									