



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	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

FEATURES

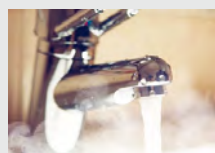
- High energy efficiency class A+++ for energy saving;
- Refrigerant R32 75% less impact on global warming;
- DC Inverter technology enables precise consumption at actual load;
- Minimum operation ambient temperature down to -25°C;
- Extremely quiet - two silent modes;
- Smart Grid certification.



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 without DHW tank



FEATURES

- Modern wired controller for easy operation;
- Integrated WiFi module for unit 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 without an integrated hot water tank have three indoor units with different power. The heat pump system is compatible with underfloor heating, radiators, fan coil systems and hot water tanks. So you do not have to invest in redesigning the entire system.

MULTIFUNCTIONALITY



DHW
Operation Priority



AUTO mode



Disinfect mode



ECO mode



Preset water
temperature



Fast DHW



Daily shedule



Weekly shedule

PRELIMINARY HEAT PUMP CALCULATOR

With just a few clicks, you can find out the Nordis heat pump that is right for your home.

Heated area: m²

Enter the heat demand for heating: W/m²

Or choose the energy class of your home:

A++ A+ A B C D

Will the heat pump prepare domestic hot water? Yes No

Calculate

[NORDIS-AC.COM/CALCULATOR-PAGE/](https://nordis-ac.com/calculator-page/)

Quickly and easily calculate the air-to-water heat pump from the NØRDIS Optimus Pro series that is suitable for your needs.

Indoor units without DHW tank			HOP60W IDU	HOP100W IDU		HOP100W IDU3		HOP160W IDU3	
Compatible outdoor models			HOP6W ODU	HOP8W ODU	HOP10W ODU	HOP8W ODU	HOP10W ODU	HOP12W ODU3	HOP16W ODU3
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			13,3			
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(A)		38	42			43		
Sound pressure	dB(A)		28	30			32		
Dimension (W x H x D)	mm		420x790x270						
Dimension of Package (W x H x D)	mm		525x1050x360						
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			0,7 ~ 3,0		
Heat exchanger			Plate, soldered						
Expansion tank	l		8						
Refrigerant pipes	Liquid phase	mm (col)	6,35 (1/4")	9,52 (3/8")					
	Gas phase	mm (col)	15,88 (5/8")						
Water pipe connection			R1"						
Net / Gross weight	kg		43 / 49					45 / 51	
Supply water temperature	Heating	°C	+12 ~ +65						
	Cooling	°C	+5 ~ +30						
	DHW	°C	+12 ~ +60						
Ambient temperature	°C		0 ~ +35						
Water pressure in the system	bar		1 ~ 3						