

Technical Data

NØRDIS Optimus Pro Split



Outdoor Unit

Model			HOP6WODU	HOP8WODU	HOP10WODU	HOP12WODU3	HOP16WODU3
Compatible Indoor Units without DHW Tank			HOP60WIDU	HOP100WIDU or HOP100WIDU3		HOP160WIDU3	
Heating A7W35 ¹	Capacity	kW	6,2	8,3	10	12,1	16
	Rated Input	kW	1,24	1,6	2	2,44	3,56
	COP		5	5,2	5	4,95	4,5
Heating A7W45 ²	Capacity	kW	6,35	8,2	10	12,3	16
	Rated Input	kW	1,69	2,08	2,63	3,24	4,44
	COP		3,75	3,95	3,8	3,8	3,6
Heating A7W55 ³	Capacity	kW	6	7,5	9,5	12	16
	Rated Input	kW	2	2,36	3,06	3,87	5,52
	COP		3	3,18	3,1	3,1	2,9
Heating A-7W35 ⁹	Capacity	kW	6,1	7,1	8,25	10	13,3
	Rated Input	kW	2	2,18	2,62	3,33	4,93
	COP		3,05	3,25	3,15	3	2,7
Cooling A35W18 ⁴	Capacity	kW	6,55	8,4	10	12	14,9
	Rated Input	kW	1,34	1,66	2,08	3	4,38
	EER		4,9	5,05	4,8	4	3,4
Cooling A35W7 ⁵	Capacity	kW	7	7,4	8,2	11,6	14
	Rated Input	kW	2,33	2,19	2,48	4,22	5,71
	EER		3	3,38	3,3	2,75	2,45
Energy Efficiency Class ⁶	Water Outlet at 35°C	Class	A+++	A+++	A+++	A+++	A+++
	Water Outlet at 55°C	Class	A++	A++	A++	A++	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
Power Supply	V/Ph/Hz		220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Rated Power	W		2600	3300	3600	5400	6100
Rated Current	A		12	14,5	16	9	11
Power Cable	mm2		C16 ~1	C16 ~1	C20 ~1	C16 ~3	C16 ~3
Automatic Switch	A		3x2,5	3x2,5	3x2,5	5x2,5	5x2,5
Refrigerant	Type (GWP)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Quantity in the Device	kg	1,5	1,65	1,65	1,84	1,84
Refrigerant Pipes	Liquid Phase	mm (Inch)	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
	Gas Phase	mm (Inch)	15,88 (5/8")	15,88 (5/8")	15,88 (5/8")	15,88 (5/8")	15,88 (5/8")
Between the Indoor and Outdoor Units	Height Difference, Max.	m	20	20	20	20	20
	Pipe Length, Min.	m	3				
	Pipe Length, Max.	m	30	30	30	30	30
Additional Refrigerant Charge	Quantity	g/m	20	38	38	38	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)		46	47	50	51	52
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	1118×865×523	1118×865×523	1118×865×523
Dimension of Package (W x H x D)	mm		1065×810×485	1190×970×560	1190×970×560	1190×970×560	1190×970×560
Net / Gross Weight	kg		58 / 63,5	75/ 89	75/ 89	112 / 125,5	112 / 125,5
Operation Ambient Temperature Range	Heating	°C	-25 ~ +35				
	Cooling	°C	-5 ~ +43				
	DHW	°C	-25 ~ +43				

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Indoor Unit

Indoor Units without DHW Tank			HOP60WIDU	HOP100WIDU	HOP100WIDU3	HOP160WIDU3
Compatible Outdoor Models			HOP6WODU	HOP8WODU or HOP10WODU	HOP8WODU or HOP10WODU	HOP12WODU3 or HOP16WODU3
Built-in Electric Heater	kW		3	3	9 (3+3+3)8	9 (3+3+3)8
Power Supply	V/Ph/Hz		220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50
Rated Power	W		3095	3095	9095	9095
Nominal Current	A		13,5	13,5	13,3	13,3
Power Cable	mm ²		C16 ~1	C16 ~1	C16 ~3	C16 ~3
Communication Cable, AWG18 Shielded	mm ²		3x2,5	3x2,5	5x2,5	5x2,5
Automatic Switch	A		2x0,75	2x0,75	2x0,75	2x0,75
Sound Power Level 7	dB (A)		38	42	42	43
Sound Pressure (1 m)	dB (A)		28	30	30	32
Dimension (W x H x D)	mm		420x790x270			
Dimension of Package (W x H x D)	mm		525x1050x360			
Type	Type		DC, Electronic			
	Maximum Lifting Height	m	9	9	9	9
	Power	W	5~90	5~90	5~90	5~90
Minimum Water Flow	m ³ /h		0,36	0,36	0,36	0,6
Operating Limits for Water Flow	m ³ /h		0,4 ~ 1,25	0,4 ~ 2,1	0,4 ~ 2,1	0,7 ~ 3,0
Heat Exchanger			Plate			
Expansion Tank	l		8			
Refrigerant Pipes	Liquid Phase	mm (Inch)	6,35 (1/4")	9,52 (3/8")	9,52 (3/8")	9,52 (3/8")
	Gas Phase	mm (Inch)	15,88 (5/8")	15,88 (5/8")	15,88 (5/8")	15,88 (5/8")
	Water Pipe Connection		R1"	R1"	R1"	R1"
Net / Gross weight	kg		43 / 49			
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			

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

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

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

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

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

⁶ Defined under moderate climate zone conditions.

⁷ Tested according to the EN12102-1 standard.

⁸ 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.

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

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

¹¹ The nominal power is specified including the built-in electric heater.