

Technical Data

NØRDIS Optimus Pro Split with DHW Tank



Model			HOP6WODU	HOP8WODU	HOP10WODU	HOP12WODU3	HOP16WODU3
Compatible Indoor Units without DHW Tank			HOP100/190IDU or HOP100/190IDU3			HOP160/240IDU3	
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		mm ²	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				

Technical Data

NØRDIS Optimus Pro Split with DHW Tank



Indoor unit



Indoor Units with DHW Tank			HOP100/190IDU			HOP100/190IDU3			HOP160/240IDU3		
Compatible Outdoor Models			HOP6WODU	HOP8WODU	HOP10WODU	HOP6WODU	HOP8WODU	HOP10WODU	HOP12WODU3	HOP16WODU3	
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			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	730x1920x730						730x2182x730		
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								
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"								
Net / 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								

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.