

# SPLIT DHW TANK INTEGRATED

HN1616T.NBO



HN1616T.NBO / HU091.U43, HU121.U33, HU141.U33, HU161.U33



HEATING

SPLIT (INDOOR UNIT)			Capacity	16kW 1/3Ø	
			Reference	HN1616T.NBO	
Dimensions	W x H x D	mm	607 x 2,079 x 25		
Weight		kg	228		
DHW Tank	Water volume	L	200		
	Buffer volume	L	40		
	Maximum water temperature	°C	95		
	Maximum water pressure	bar	10		
	Insulation	Material	-	Polyurethane foam	
	Thickness	mm	50		
	Heat loss (for 24hr)	kWh	1.67		
Buffer Tank	Water volume	L	40		
	Material	-	Steel powder coated		
	Insulation Material	-	Closed cell foamed rubber		
Water Pump	Model	-	Yonos PARA RS25/7 PWM1		
	Motor type	-	BLDC		
	Steps of speed	EA	Variable speed 13% to 100%		
	Power Input	W	3 - 45		
	Water Flow Rate	Min.	L / min	16	
		Rated	L / min	40	
		Max.	L / min	40	
Heat Exchanger (Water Side)	Pressure drop	kPa	70		
	Type	-	Braze Plate HEX		
	Quantity	-	1		
	Water Volume	L	3.3		
	Water Flow Rate (Min. - Max.)	bar	13 - 70		
Safety Valve	Insulation Material	-	Closed cell foamed rubber		
	Pressure Limit	Max. Bar	3		
Piping Connection	Refrigerant Circuit	Gas (Outer Dia.)	mm(inch)	Ø 15.88 (5/8)	
		Liquid (Outer Dia.)	mm(inch)	Ø 9.52 (3/8)	
	Water Circuit	Inlet (Inner Dia.)	mm(inch)	Male PT 25 (1)	
		Outlet (Inner Dia.)	mm(inch)	Male PT 25 (1)	
	DHW Tank Water Circuit	Cold Inlet (Outer Dia.)	mm(inch)	Male PT 19.05 (3/4)	
		Hot Outlet (Outer Dia.)	mm(inch)	Male PT 25 (1)	
	Recirculation (Outer Dia.)	mm(inch)	Male PT 19.05 (3/4)		
Operation Range	Heating	Water side Min.-Max.	°C	25-58	
	Cooling	Water side Min.-Max.	°C	7-25	
	Domestic hot water	Water side Min.-Max.	°C	25-52 (60*)	
Sound Power Level	Nom.	dBA	36		

SPLIT (OUTDOOR)			Capacity	9kW 1Ø	12kW 1Ø	14kW 1Ø	16kW 1Ø	12kW 3Ø	14kW 3Ø	16kW 3Ø	
			Reference	HU091.U43	HU121.U33	HU141.U33	HU161.U33	HU123.U33	HU143.U33	HU163.U33	
Nominal Capacity	Heating (A7 / W35)		kW	9	12	14	16	12	14	16	
	Cooling (A35 / W18)		kW	9	10.4	11	12	10.4	11	12	
Nominal Power Input	Heating (A7 / W35)		kW	2.23	2.78	3.43	4.18	2.78	3.43	4.18	
	Cooling (A35 / W18)		kW	2.88	3.3	3.53	4	3.3	3.53	4	
COP	Heating (A7 / W35)			4.04	4.32	4.08	3.83	4.32	4.08	3.83	
EER	Cooling (A35 / W18)			3.12	3.15	3.12	3	3.15	3.12	3	
	General	Declared load profile		2.88	3	3	3	3	3	3	
Space heating	Average climate water outlet 55°C (A++ to G Scale)	General	SCOP		112	117	117	117	117	117	
			η <sub>s</sub> (Seasonal space heating efficiency) %		A+	A+	A+	A+	A+	A+	
	Average climate water outlet 35°C (A++ to G Scale)	General	SCOP		4.04	4.2	4.15	4.15	4.2	4.15	
			η <sub>s</sub> (Seasonal space heating efficiency) %		159	165	163	163	165	163	
Domestic Hot Water Heating	Average climate (A to G Scale)	General	Seasonal space heating eff. Class		A++	A++	A++	A++	A++	A++	
			Declared load profile		XL	XL	XL	XL	XL	XL	
	Water heating energy efficiency class	General	η <sub>wh</sub> (water heating efficiency) %		98	89	89	89	89	89	
			Water heating energy efficiency class		A	A	A	A	A	A	
Dimensions	Unit	W x H x D	mm	834x950x330			1,380 x 950 x 330				
	Shipping	W x H x D	mm	900x1140x461			1,462 x 1,140 x 461				
Weight	Net		kg	59	94	94	94	94	94	94	
	Gross		kg	65	107	107	107	107	107	107	
Operation Range	Heating	Min. ~ Max.	°C	-20 - 35	-20 - 35	-20 - 35	-20 - 35	-20 - 35	-20 - 35	-20 - 35	
		Cooling	Min. ~ Max.	°C	5 - 48	5 - 48	5 - 48	5 - 48	5 - 48	5 - 48	
			Domestic hot water	Min. ~ Max.	°C	-20 - 30	-20 - 30	-20 - 30	-20 - 30	-20 - 30	-20 - 30
Refrigerant	Type			R410a			R410a				
	GWP			2,087.50			2,087.50				
	Charge	TCO <sub>2eq</sub>		3.76	4.8	4.8	4.8	4.8			
		kg		1.8	2.3	2.3	2.3	2.3			
	Chargeless-Pipe Length		m	7.5			7.5				
Additional Charging Volume		g/m	40			40					
Sound Power Level	Heating	Nom.	dBA	65	66	66	66	66			
		Type		Flare			Flare				
Piping Connections	liquid	Outer Dia.	mm (inch)	Ø 9.52(3/8)			Ø 9.52(3/8)				
		Type		Flare			Flare				
Piping Length	Gas	Outer Dia.	mm (inch)	Ø 15.88(5/8)			Ø 15.88(5/8)				
		Min.	m	3			3				
		Standard	m	7.5			7.5				
		Max.	m	50			50				
Piping Level Difference	Outdoor Unit - Indoor Unit	Max.	m	30			30				
Power supply	Phase/Frequency/Voltage	Hz/V	1-/50/220-240			3-/50/380-415					
Current	Recommended fuses	A	30	40	40	40	20				
Modbus Converter (*Required purchase separately)	Type			Gateway PI485			Gateway PI485				
	Model			PP485B00K			PP485B00K				

\* with integrated electrical heater

\* This product contains fluorinated greenhouse gases. (R410A) / All models do have electric heating cable for prevent frost from condensing water at the condensing pan.  
 \* All specification is based on EN14511 and EN14825. \* Above table values does include humidification effect in the outdoor temperature below zero.