

# SPLIT DHW TANK INTEGRATED

HN1616T.NBO



SPLIT (INDOOR UNIT)			Capacity		
			Reference	16kW 1/3 Ø 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	
Pressure drop	Max.	kPa	70		
Heat Exchanger (Water Side)	Type	-	Brazed Plate HEX		
	Quantity	-	1		
	Water Volume	L	3.3		
	Water Flow Rate (Min. ~ Max.)	bar	13 ~ 70		
Safety Valve	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	

\* with integrated electrical heater

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



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	
			SCOP	2.88	3	3	3	3	3	3	
Space heating	Average climate water outlet 55°C (A++ to G Scale)	General	ηs (Seasonal space heating efficiency) %	112	117	117	117	117	117	117	
			Seasonal space heating eff. Class	A+	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	4.15	
			ηs (Seasonal space heating efficiency) %	159	165	163	163	165	163	163	
			Seasonal space heating eff. Class	A++	A++	A++	A++	A++	A++	A++	
Domestic Hot Water Heating	General		Declared load profile	XL	XL	XL	XL	XL	XL	XL	
	Average climate (A to G Scale)	ηwh (water heating efficiency) %		98	89	89	89	89	89	89	
		Water heating energy efficiency class		A	A	A	A	A	A	A	
Dimensions	Unit	W x H x D		834x950x330			1,380 x 950 x 330				
	Shipping	W x H x D		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	
	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>2</sub> eq	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			
Piping Connections	liquid	Type	-	Flare				Flare			
		Outer Dia.	mm (inch)	Ø 9.52(3/8)				Ø 9.52(3/8)			
	Gas	Type	-	Flare				Flare			
		Outer Dia.	mm (inch)	Ø 15.88(5/8)				Ø 15.88(5/8)			
Piping Length	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			

\* 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.