

SPLIT DHW TANK INTEGRATED

HN1616T.NBO



SPLIT (INDOOR UNIT)			Capacity	16kW 1/3Ø
			Reference	HN1616T.NB0
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		-
Quantity		-	1	
Water Volume		L	3.3	
Water Flow Rate (Min. ~ Max.)		bar	13 ~ 70	
Insulation Material		-	Closed cell foamed rubber	
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
				2.88	3	3	3	3	3	3
Space heating	Average climate water outlet 55°C (A++ to G Scale)	General	SCOP							
			η _{sp} (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
			η _{sp} (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)	η _{wh} (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	mm	834x950x330						
	Shipping	W x H x D	mm	900x1140x461						
Weight	Net		kg	59	94	94	94	94	94	94
	Groos		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	5 ~ 48
	Domestic hot water	Min. ~ Max.	°C	-20 ~ 30	-20 ~ 30	-20 ~ 30	-20 ~ 30	-20 ~ 30	-20 ~ 30	-20 ~ 30
Refrigerant	Type		-	R410a						
	GWP		-	2,087.50						
	Charge		TCO ₂ 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						
	Additional Charging Volume		g/m	40						
Sound Power Level	Heating	Nom.	dBA	65	66	66	66		66	
	liquid	Type	-	Flare						
Piping Connections		Outer Dia.	mm (inch)	Ø 9.52(3/8)						
	Gas	Type	-	Flare						
Piping Length		Outer Dia.	mm (inch)	Ø 15.88(5/8)						
		Min.	m	3						
		Standard	m	7.5						
Piping Level Difference		Max.	m	50						
	Outdoor Unit ~ Indoor Unit	Max.	m	30						
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240						
Current	Recommended fuses		A	30	40	40	40		20	
Modbus Converter (*Required purchase separately)	Type		-	Gateway PI485						
	Model		-	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.

HEATING