

1-1. Unit Specifications

Single - Type

1-1-3. PZH4

1-1-3-4. Ceiling Type S-1014PT3E(140) / U-140PZH4E8

INDOOR		MODEL	S-1014PT3E(140)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZH4E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min Max	
C O O L I N G	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3 16.0	
		BTU/h	45700	45700	45700	-	-	-	11300 54600	
	Current	A	0.94	0.91	0.88	6.90	6.55	6.30	- -	
		W	120	120	120	-	-	-	- -	
	Input power	TOTAL W	-			4.17k	4.17k	4.17k	620 6.00k	
		Annual consumption TOTAL kWh *4	-	-	-	-	2085	-	-	
	EER/EER CLASS TOTAL (W/W) *5/ ("A"~"G")		-	-	-	3.21	3.21 / A	3.21	5.32 2.67	
	ErP *6	Pdesign kW	-	-	-	-	13.4	-	-	
		ηsc (W/W)	-	-	-	-	262.4	-	-	
		Annual consumption kWh	-	-	-	-	-	-	-	
		Class	-	-	-	-	-	-	-	
	Power factor		%	-	-	-	92	92	92	- -
Noise indoor *7	dB-A (H/M/L)	47/41/36				-			- -	
	Power Level dB	65/59/54				-			- -	
Noise outdoor	dB-A (H/L)	-				56/-			- -	
	Power Level dB	-				74/-			- -	
H E A T I N G	Capacity	kW	16.0	16.0	16.0	-	-	-	3.3 18.0	
		BTU/h	54600	54600	54600	-	-	-	11300 61400	
	Current	A	0.94	0.91	0.88	7.90	7.50	7.15	- -	
		W	120	120	120	-	-	-	- -	
	Input power	TOTAL W	-			4.74k	4.74k	4.74k	600 5.80k	
		COP/COP CLASS TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.38	3.38 / C	3.38	5.50 3.10	
	ErP *6	Pdesign at -10°C kW	-	-	-	-	10.2	-	-	
		Tbivalent °C	-	-	-	-	-10	-	-	
		ηsh (W/W)	-	-	-	-	169.3	-	-	
		Annual consumption kWh	-	-	-	-	-	-	-	
	elbu(-10°C)	kW	-	-	-	-	0.00	-	-	
		Class	-	-	-	-	-	-	-	
	Power factor		%	-	-	-	91	91	92	- -
	Noise indoor *7	dB-A (H/M/L)	47/41/36				-			- -
		Power Level dB	65/59/54				-			- -
	Noise outdoor	dB-A (H/L)	-				56/-			- -
		Power Level dB	-				74/-			- -
LOW TEMP Total capacity(kW) / Input power(W) / COP		-			-	-	-	-		
EXTRA LOW TEMP Total capacity(kW) / Input power(W) / COP		-			11.70	-	-	-		
Max Current(A) / Max Input power(W)		1.24/170	1.20/170	1.16/170	11.4 / 7.00k	11.4 / 7.35k	11.4 / 7.60k	-		
Starting current(A) (Cooling/Heating)		-	-	-	6.90 / 7.90	6.55 / 7.50	6.30 / 7.15	-		
Comp output(W)		-			3.00k	3.00k	3.00k	-		
Time Delay fuse max size(A)		-			15			-		
Network Impedance(ΩMAX.)		-			-			-		
Fan motor output (Indoor/Outdoor) W		129			120			-		
Moisture removal volume		L/h	6.4 (6.4×1)			-				
External static pressure		Pa	-			-				
Indoor Air flow *7	Cooling	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			- -	
	Heating	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			- -	
Outdoor Air flow	Cooling	m³/min	-			89.0			- -	
	Heating	m³/min	-			83.0			- -	
Refrigerant type / amount(ship) kg / amount(max) kg		-			R32	3.000	5.975	-		
F-Gas	GWP /	-			675	2.03	4.03	-		
	CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			-	-	-	-		
Product dimension	Height mm	235			996			-		
	Width mm	1590			980			-		
	Depth mm	690			370			-		
Product dimension (Panel)		H×W×D mm	-			-				
Packing dimension	Height mm	360			1134			-		
	Width mm	1655			1095			-		
	Depth mm	820			529			-		
Weight	(NET) kg	40			84			-		
	(GROSS) kg	49			92			-		
	Panel (NET) kg	-			-			-		
Layers limit (actually)		9(10)			1 (2)			-		
Operation condition	Cool (DBT)	18°C~32°C			-15°C(*8 -20°C)~52°C			-		
	Heat (DBT)	16°C~30°C			-20°C ~ 24°C			-		
Max Working Pressure HP/LP MPa		4.15/2.55								
P I P I N G	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-			-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m			-			-	
	Pipe length range m *9		5 ~ 100 m			-			-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)			-			-	
	Add gas amount (20~85) g/m		40 g/m			-			-	
	Add gas amount (85~100) g/m		25 g/m			-			-	
	Pipe length for additional gas m		30m			-			-	

* In the case of nanoe X OFF

*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.

*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.

*3 Network Impedance shall be applicable for EUROPE and CHINA models.

*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.

*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.

*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating ηsh indicates the value of only Average heating season.

*7 H : High at setting 5 stage (Level 5) M : Middle at setting 5 stage (Level 3) L : Low at setting 5 stage (Level 1)

*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

*9 Total piping length is 100m but maximum wiring length is 85m. Piping length maybe limited depending on the wiring length.