

1-1. Unit Specifications

Single - Type

1-1-3. PZH4

1-1-3-2. Middle Static Pressure Duct Type S-1014PF3E(140) / U-140PZH4E8

INDOOR			MODEL		S-1014PF3E(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	15.3	
		BTU/h		45700	45700	45700	-	-	-	11300	52200	
	Current	A		1.80	1.76	1.72	6.55	6.20	6.00	-	-	
		W		265	265	265	-	-	-	-	-	
	Input power	TOTAL W		-			3.96k	3.96k	3.96k	790	5.90k	
		TOTAL kWh *4		-	-	-	-	1980	-	-	-	
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")		-	-	-	3.38	3.38 / A	3.38	4.18	2.59
	ErP *6	Pdesign		kW		-	-	-	13.4	-	-	-
		ηsc (W/W)		-		-	-	275.2	-	-	-	
		Annual consumption		kWh		-	-	-	-	-	-	
		Class		-		-	-	-	-	-	-	
	Power factor		%		-	-	-	92	92	92	-	-
Noise indoor *7	dB-A (H/M/L)		39/35/29			-			-			
	Power Level dB		62/58/52			-			-			
Noise outdoor	dB-A (H/L)		-			56/-			-			
	Power Level dB		-			74/-			-			
H E A T I N G	Capacity	kW		15.5	15.5	15.5	-	-	-	3.3	17.4	
		BTU/h		52900	52900	52900	-	-	-	11300	59400	
	Current	A		1.80	1.76	1.72	7.75	7.40	7.05	-	-	
		W		265	265	265	-	-	-	-	-	
	Input power	TOTAL W		-			4.65k	4.65k	4.65k	770	5.55k	
		COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")		-	3.33	3.33 / C	3.33	4.29	3.14	
	ErP *6	Pdesign at -10°C		kW		-	-	-	9.5	-	-	
		Tbivalent		°C		-	-	-	-10	-	-	
		ηsh (W/W)		-		-	-	162.6	-	-		
		Annual consumption		kWh		-	-	-	-	-		
		elbu(-10°C)		kW		-	-	-	0.00	-	-	
		Class		-		-	-	-	-	-		
	Power factor		%		-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)		39/35/29			-			-		
		Power Level dB		62/58/52			-			-		
	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			-			11.30	-	-	-		
Max Current(A) / Max Input power(W)				2.87/410	2.87/410	2.87/410	11.4 / 7.00k	11.4 / 7.35k	11.4 / 7.60k	-		
Starting current(A) (Cooling/Heating)				-	-	-	6.55 / 7.75	6.20 / 7.40	6.00 / 7.05	-		
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				259			120			-		
Moisture removal volume			L/h	4.9 (4.9×1)			-			-		
External static pressure			Pa	50 (MIN10 - MAX150)			-			-		
Indoor Air flow *7	Cooling	m³/min (H/M/L)		36.0 / 32.0 / 25.0			-			-	-	
	Heating	m³/min (H/M/L)		36.0 / 32.0 / 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	250			996			-		
		Width	mm	1400			980			-		
		Depth	mm	730			370			-		
Product dimension (Panel)		H×W×D	mm	-			-			-		
Packing dimension		Height	mm	805			1134			-		
		Width	mm	1665			1095			-		
		Depth	mm	340			529			-		
Weight	(NET)	kg	39			84			-			
	(GROSS)	kg	45			92			-			
	Panel (NET)	kg	-			-			-			
Layers limit (actually)				3(4)			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 standard installation (Horizontal installation in the ceiling, rear side air intake)

* 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) Noise of L is indicated by the values at FAN mode

*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.