

1-14. Information Table

1-14-2. PZH3

1-14-2-1. 4-Way Cassette Type S-3650PU3E(45)×3 / U-125PZH3E8

Information requirements for heat pumps

Model(s):	Outdoor Unit	Indoor Unit
	U-125PZH3E8	X3
	S-3650PU3E	air
		air
		no
		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Refrigeration load	$P_{design,r}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j							
	P_{an}	8.4	kW	$T_j = -7\text{ °C}$		3.1	%
		5.1	kW	$T_j = +2\text{ °C}$		4.6	%
		3.5	kW	$T_j = +7\text{ °C}$		6.2	%
		3.8	kW	$T_j = +12\text{ °C}$	COP _a or GUE _{h,an} / AEF _{h,an}	7.7	%
		9.5	kW	$T_{b,h} = \text{bivalent temperature}$		2.8	%
	$T_{b,w}$	6.3	kW	$T_{b,w} = \text{operation limit}$		2.0	%
		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{b,w} < -20\text{ °C}$)		-	%
		-10	°C	For water-to-air heat pumps: Operation limit temperature	$T_{b,w}$	-20	°C
Degradation co-efficient heat pumps**	C_{an}	0.25	-	Supplementary heater			
Power consumption in modes other than 'active mode'	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
	P_{T0}	0.016	kW	Type of energy input			
	P_{crk}	0.000	kW	Standby mode	P_{sb}	0.012	kW
				Other items			
Capacity control	variable			For air-to-air heat pumps: air flow rate outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	46.0	dB	Emissions of nitrogen oxides (if applicable)	NO _x ***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO ₂ -eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

*** If C_{an} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25.

** From 26 September 2018.

Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor side heat exchanger of air conditioner: Indoor Unit	Outdoor Unit	U-125PZH3E8 S-3650PU3E	X3 air air vapour compression electric motor
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Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	12.5	kW	Seasonal space cooling energy efficiency	η _{s,c}	308.4	%
Refrigeration load	P _{refrig,s}	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures T _j and indoor 27 ^o /19 ^o C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures T _j			
T _j = + 35 °C	P _{ac}	12.5	kW	T _j = + 35 °C	EER _d or GUE _{s,bn} / AEF _{c,bn}	3.8	%
T _j = + 30 °C		9.2	kW	T _j = + 30 °C		5.5	%
T _j = + 25 °C		5.9	kW	T _j = + 25 °C		9.5	%
T _j = + 20 °C		4.2	kW	T _j = + 20 °C		14.5	%
Degradation co-efficient for air conditioners**	C _{ac}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P _{off}	0.012	kW	Crankcase heater mode	P _{ch}	0.000	kW
Thermostat-off mode	P _{to}	0.013	kW	Standby mode	P _{sb}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L _{WA}	70.0	dB				
Sound power level, indoor	L _{WA}	46.0	dB	if engine driven: Emissions of nitrogen oxides	NO _x ***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO ₂ eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{ac} is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.