

1-14. Information Table

1-14-2. PZH3

1-14-2-1. 4-Way Cassette Type S-6071PU3E(71)×2 / U-140PZH3E8

Information requirements for heat pumps

Model(s):	Outdoor Unit Indoor Unit	U-140PZH3E8 S-6071PU3E	X2
Outdoor side heat exchanger of heat pump:	air		
Indoor side heat exchanger of heat pump:	air		
Indication if the heater is equipped with a supplementary heater:	no		
If applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	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	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{h,h}$	181.6	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T_j							
$T_j = -7\text{ °C}$		9.3	kW	$T_j = -7\text{ °C}$		3.1	%
$T_j = +2\text{ °C}$		5.7	kW	$T_j = +2\text{ °C}$		4.4	%
$T_j = +7\text{ °C}$		3.6	kW	$T_j = +7\text{ °C}$		6.1	%
$T_j = +12\text{ °C}$		3.8	kW	$T_j = +12\text{ °C}$		7.6	%
$T_{biv} = \text{bivalent temperature}$	P_{biv}	10.6	kW	$T_{biv} = \text{bivalent temperature}$	COP ₂ or GUE _{2,biv} / AEF _{2,biv}	2.7	%
$T_{OL} = \text{operation limit}$		6.8	kW	$T_{OL} = \text{operation limit}$		2.0	%
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)		-	kW	For water-to-air heat pumps: $T_j = -15\text{ °C}$ (if $T_{OL} < -20\text{ °C}$)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co-efficient heat pumps**	C_{ph}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Supplementary heater back-up heating capacity *	e_{bu}	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW	Type of energy input			
Crankcase heater mode	P_{CK}	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		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	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}	52.0	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 Winsberg 15, 22525 Hamburg, Germany						

** If C_{ph} 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 Unit Indoor Unit	U-140PZH3E8 S-6071PU3E	X2
Outdoor side heat exchanger of air conditioner:	air		
Indoor side heat exchanger of air conditioner:	vapour compression		
Type: compressor driven vapour compression or sorption process	electric motor		
If applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{h,c}$	289.6	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27°/19°C (dry/wet bulb)							
$T_j = +35\text{ °C}$		14.0	kW	$T_j = +35\text{ °C}$		3.4	%
$T_j = +30\text{ °C}$		10.3	kW	$T_j = +30\text{ °C}$		5.0	%
$T_j = +25\text{ °C}$	P_{25}	6.6	kW	$T_j = +25\text{ °C}$	EER ₂₅ or GUE _{25,biv} / AEF _{25,biv}	8.9	%
$T_j = +20\text{ °C}$		4.4	kW	$T_j = +20\text{ °C}$		14.3	%
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_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	52.0	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 Winsberg 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.