

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION


Model(s):	Outdoor unit:	PUHZ-SHW80VAA(-BS)
	Indoor unit:	EHST20C-***C(W)
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	8.0	kW	Tj = -7 °C	COPd	2.13	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +2 °C	COPd	3.29	-
Tj = +2 °C	Pdh	4.9	kW	Tj = +7 °C	COPd	4.66	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	5.92	-
Tj = +7 °C	Pdh	5.4	kW	Tj = bivalent temperature	COPd	2.13	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	2.05	-
Tj = +12 °C	Pdh	5.3	kW	Operation limit temperature	TOL	-28	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	8.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	7.9	kW	Rated heat output (*)	Psup	1,1	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2700	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q _{HE}	5465	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			n _{wh}	103	%	
Daily electricity consumption	Q _{elec}		kWh				
Annual electricity consumption	AEC	1048	kWh				

Contact details
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The identification and signature of the person empowered to bind the supplier:
 Atsushi EDAYOSHI
 Manager, Quality Assurance Department
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· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
 · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.