PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Indicate water heat pump:	Model(s):	/OOMENTATI	Outdoor unit	:	PUHZ-SHW80VAA(-BS)			
March-Assignment March Part Dump: Part			Indoor unit:		EHST20C-****C(W)			
Editio-Low-later healt pump: Low-stemperature best pump: Parameters for Parameters for Readed heart output (*) Periods (*) Period	Air-to-water heat pump:				yes			
To To To To To To To To	Water-to-water heat pump:				no			
Read purply continuation heater:	Brine-to-water heat pump:				no			
Parameters for	Low-temperature heat pump:				no			
Parameters for Para	Equipped with a supplementary heater:				yes			
Reference design conditions for surface of the standard conditions Symbol Value Unit Seasonal space heating ns 133 %	Heat pump combination heater:				yes			
Rated heat output (*)	Parameters for	medium-temperature application.						
Prated heat output (**)	Parameters for	average dimate conditions.						
President Pres	Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Declared capacity for heating for part load at indoor temperature T	Rated heat output (*)	Prated	9.0	kW		ηs	133	%
Tj = -7 °C Pdh 8.0 KW Degradation co-efficient (**) Cdh 1.00 -	Declared capacity for heating for part load	at indoor		!		nergy ratio fo	or .	
Degradation co-efficient ("')	temperature 20 °C and outdoor temperature T j				part load at indoor temperature 20 °C and outdoor temperature Tj			
T = +2 °C	Tj = - 7 °C	Pdh	8.0	kW	Tj = - 7 °C	COPd	2.13	-
Degradation co-efficient (")	Degradation co-efficient (**)	Cdh	1.00	-				
T = +7 °C	Tj = + 2 °C	Pdh	4.9	kW	Tj = + 2 °C	COPd	3.29	-
Degradation co-efficient (**) Cdh 0.99 - Tj = +12 *C COPd 5.92 -	Degradation co-efficient (**)	Cdh	0.99	-				
Tij = +12 °C Pdh 5.3 kW Tij = +12 °C COPd 5.92 - Degradation co-efficient (**) Cdh 0.98 - Tij = bivalent temperature Pdh 8.0 kW Tij = bivalent temperature (***) COPd 2.13 - Tij = operation limit temperature (***) Pdh 7.9 kW Tij = operation limit temperature (***) COPd 2.05 - Bivalent temperature (***) Pdh 7.9 kW Tij = operation limit temperature (***) COPd 2.05 - Bivalent temperature (***) Pdh 7.9 kW Tij = operation limit temperature (***) COPd 2.05 - Bivalent temperature (***) COPd 2.05 - Bivalent temperature (***) COPd 2.05 - Degration limit temperature Tibu 2.28 °C Operation limit temperature (***) COPd 2.05 - Bivalent temperature (***) COPd 2.05 - To Operation limit temperature Tibu 2.28 °C Operation limit temperature (***) COPd 2.05 - Bivalent temperature Tibu 2.28 °C OPd 2.13 - Tij = operation limit temperature (***) COPd 2.05 - Bivalent temperature Tibu 2.28 °C OPd 2.05 - To Operation limit temperature Tibu 2.28 °C OPd 2.05 - Bivalent temperature Tibu 2.28 °C OPd 2.05 - To OPd 2.06 - To	Tj = + 7 °C	Pdh	5.4	kW	Tj = + 7 °C	COPd	4.66	-
Degradation co-efficient (**) Tj = bivalent temperature Pdh 8.0 kW Tj = bivalent temperature Tj = operation limit temperature ToL Tell = operation limit temperature Tj = operation limit temperature Tj = operation limit temperature ToL Tell = operation limit temperature ToL Tell = operation limit temperature Tj = operation limit temperature ToL Tell = operation limit temperature	Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature Tj = bivalent temperature Tj = operation limit temperature ToL	Tj = +12 °C	Pdh	5.3	kW	Tj = +12 °C	COPd	5.92	-
Bivalent temperature (***) Bivalent temperature Tbiv 7.9 Reference design conditions for space heating Tother items Capacity control Sound power levet, indoors/outdoors Annual energy consumption Quee Declared load profile Declared load profile Declared load profile Declared details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier: Alsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM To Operation limit temperature (***) COPd 2.05 - COPation limit temperature (***) COPd 2.05 - COPd 2.05 - COPATION To L -28 CC Heating water operating limit temperature WTOL 60 ***C ***Power Consumption in modes other than active mode NOL ***Easing mint temperature WTOL 60 ***C ***C Heating water operating limit temperature WTOL 60 ***C Heating water	Degradation co-efficient (**)	Cdh	0.98	-				
Bivalent temperature Reference design conditions for space heating Total Tota	Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.13	-
Reference design conditions for space heating Power consumption in modes other than active mode Off mode Poff 0.015 kW Thermostat-off mode PoK 0.015 kW Standby mode PoK 0.0015 kW Crankcase heater mode PoK 0.000 kW Other items Capacity control Variable Sound power level, indoors/outdoors LWA Annual energy consumption heater: Declared load profile L Water heating energy efficiency nwh 103 % Annual electricity consumption AEC 1048 kWh Annual electricity consumption AEC 1048 kWh Thermostation and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM Heating water operating limit temperature WTOL 60 °C Bupplementary heater Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh 103 % Water heating energy efficiency nwh 103 % Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Tj = operation limit temperature (***)	Pdh	7.9	kW	Tj = operation limit temperature (***)	COPd	2.05	-
Reference design conditions for space heating Power consumption in modes other than active mode Off mode Poff 0.015 kW Thermostat-off mode PoK 0.015 kW Standby mode PoK 0.0015 kW Crankcase heater mode PoK 0.000 kW Other items Capacity control Variable Sound power level, indoors/outdoors LWA Annual energy consumption heater: Declared load profile L Water heating energy efficiency nwh 103 % Annual electricity consumption AEC 1048 kWh Annual electricity consumption AEC 1048 kWh Thermostation and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM Heating water operating limit temperature WTOL 60 °C Bupplementary heater Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh 103 % Water heating energy efficiency nwh 103 % Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM				1				
Power consumption in modes other than active mode Off mode Poff O.015 kW Thermostat-off mode Poff O.015 kW Standby mode Poff O.0015 kW Thermostat-off mode Poff O.0015 kW Standby mode Poff O.0015 kW Type of energy input Electrical Other items Capacity control Variable Sound power level, indoors/outdoors LwA Annual energy consumption Que Sound power level, indoors/outdoors Annual electricity consumption Qelec L kWh Annual electricity consumption AEC 1048 kWh Type of energy input Electrical Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Fated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh 103 % Water heating energy efficiency nwh 103 % Water heating energy efficiency Nwh 103 % Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM		Tbiv	-7	°C	Operation limit temperature	TOL	-28	°C
Off mode Thermostat-off mode Standby mode Crankcase heater mode Pro O.015 kW Type of energy input Electrical Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Annual electricity consumption Annual electri		Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Thermostat-off mode Pro 0.015 kW Type of energy input Electrical Standby mode PsB 0.015 kW Type of energy input Electrical Other items Capacity control Variable Sound power level, indoors/outdoors Annual energy consumption QHE 5465 kWh For heat pump combination heater: Declared load profile L Water heating energy efficiency nwh 103 % Daily electricity consumption AEC 1048 kWh Annual electricity consumption AEC 1048 kWh Type of energy input Electrical Electrical Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh 103 % Water heating energy efficiency nwh 103 % Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Power consumption in modes other than ac	tive mode		•	Supplementary heater			
Standby mode Crankcase heater mode PSB O.015 KW Type of energy input Electrical Electrical Type of energy input Electrical	Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	1.1	kW
Crankcase heater mode PCK 0,000 kW Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Celec KWh Annual electricity consumption Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM Rated air flow rate, outdoors - 2700 m³/h Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh 103 % Water heating energy efficiency nwh 103 % Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Thermostat-off mode	P_{TO}	0.015	kW				
Capacity control Sound power level, indoors/outdoors Annual energy consumption Declared load profile Daily electricity consumption AEC Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM Rated air flow rate, outdoors - 2700 m³/h Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh 103 % Water heating energy efficiency nwh 103 % Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Capacity control Sound power level, indoors/outdoors Annual energy consumption Capacity control Sound power level, indoors/outdoors Annual energy consumption Capacity con	Crankcase heater mode	P _{CK}	0.000	kW				
Sound power level, indoors/outdoors Annual energy consumption QHE S465 kWh For heat pump combination heater: Declared load profile Daily electricity consumption Qelec Annual electricity consumption AEC 1048 kWh Annual electricity consumption AEC 1048 kWh MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Other items							
Annual energy consumption Q _{HE} 5465 kWh For heat pump combination heater: Declared load profile Daily electricity consumption Annual electricity consumption Annual electricity consumption ANNUAL details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Capacity control		variab l e		Rated air flow rate, outdoors	-	2700	m³/h
For heat pump combination heater: Declared load profile Daily electricity consumption Annual electricity consumption AEC 1048 kWh Annual electricity consumption AEC 1048 kWh ANTISUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Declared load profile Daily electricity consumption Annual electricity consumption AEC 1048 kWh Annual electricity consumption AEC 1048 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Annual energy consumption	Q _{HE}	5465	kWh				
Daily electricity consumption Annual electricity consumption AEC 1048 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	For heat pump combination heater:							
Annual electricity consumption AEC 1048 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Declared load profile		L		Water heating energy efficiency	ηwh	103	%
Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM	Daily electricity consumption	Qelec		kWh				
MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM		AEC	1048	kWh				
The identification and signature of the person empowered to bind the supplier: Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM		ONING SYSTE	M FUROPE	LTD	Nettlehill Road, Houston Industrial Estate, Li	vinaston FH	54.5EO Scotl	and IJK
Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM								
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· 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.