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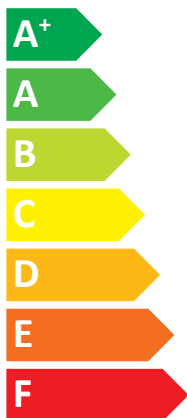
енергия · ενεργεια



Indoor unit E*ST20C-**D
Outdoor unit PUHZ-SW100VAA(-BS)



A⁺⁺



A⁺

Two icons showing sound power levels. The top icon shows a speaker inside a house with the text "40 dB". The bottom icon shows a speaker outside a house with the text "60 dB".



A legend for power levels with three colored squares: dark blue for "08 kW", medium blue for "10 kW", and light blue for "10 kW".

2019

811/2013

BH79V003H41



PRODUCT FICHE

Mitsubishi Electric Erp Directive Related Product Information: erp.mitsubishielectric.eu/erp
Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
This information is based on EU regulation No 811/2013 and No 813/2013.

1. SPACE HEATER

1	2	For medium-temperature application													For low-temperature application												
		Medium-temperature application		Seasonal space heating energy efficiency class		Seasonal space heating energy consumption under average climate conditions		For space heating, annual energy consumption under average climate conditions		For water heating, annual energy consumption under average climate conditions		Sound power level $L_{w, indoor}$		Low-temperature application		Seasonal space heating energy efficiency class		Seasonal space heating energy consumption under average climate conditions		For space heating, annual energy consumption under average climate conditions		For water heating, annual energy consumption under average climate conditions		Sound power level $L_{w, outdoor}$			
Outdoor unit	Indoor unit	Medium-temperature application	Seasonal space heating energy efficiency class	Seasonal space heating energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Sound power level $L_{w, indoor}$	Seasonal space heating energy efficiency class	Seasonal space heating energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Sound power level $L_{w, outdoor}$	Low-temperature application	Seasonal space heating energy efficiency class	Seasonal space heating energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Sound power level $L_{w, outdoor}$	Seasonal space heating energy efficiency class	Seasonal space heating energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Sound power level $L_{w, outdoor}$				
PUHZ-SW75VAA-(BS)	EHSC****C	✓	A++	7	129	4435	40	6	7	107	155	5378	2408	58	✓	A++	7	162	3607	40	6	7	129	219	4472	1731	58
	ERSC****C	✓	A++	7	132	4352	40	6	7	109	158	5274	2352	58	✓	A++	7	166	3525	40	6	7	132	226	4382	1678	58
	EHSD****C	✓	A++	7	129	4435	40	6	7	107	155	5378	2408	58	✓	A++	7	162	3607	40	6	7	129	219	4472	1731	58
	ERSD****C	✓	A++	7	132	4352	40	6	7	109	158	5274	2352	58	✓	A++	7	166	3525	40	6	7	132	226	4382	1678	58
	EHSD****D	✓	A++	7	129	4435	41	6	7	107	155	5378	2408	58	✓	A++	7	162	3607	41	6	7	129	219	4472	1731	58

2. COMBINATION HEATER

1	2	For medium-temperature application													For low-temperature application																														
		Medium-temperature application		Seasonal space heating energy efficiency class		Seasonal space heating energy consumption under average climate conditions		For space heating, annual energy consumption under average climate conditions		For water heating, annual energy consumption under average climate conditions		Sound power level $L_{w, indoor}$		Low-temperature application		Seasonal space heating energy efficiency class		Seasonal space heating energy consumption under average climate conditions		For space heating, annual energy consumption under average climate conditions		For water heating, annual energy consumption under average climate conditions		Sound power level $L_{w, outdoor}$																					
Outdoor unit	Indoor unit	Medium-temperature application	Seasonal space heating energy efficiency class	Seasonal space heating energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Sound power level $L_{w, indoor}$	Seasonal space heating energy efficiency class	Seasonal space heating energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Sound power level $L_{w, outdoor}$	Low-temperature application	Seasonal space heating energy efficiency class	Seasonal space heating energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Sound power level $L_{w, outdoor}$	Seasonal space heating energy efficiency class	Seasonal space heating energy consumption under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Sound power level $L_{w, outdoor}$																						
PUHZ-SW75VAA-(BS)	EHS200****C2	✓	L	A++	+	7	4435	751	129	145	40	-	6	7	5378	2408	880	682	107	155	123	161	58	✓	L	A++	+	7	3607	751	162	145	40	-	6	7	4472	1731	880	682	129	219	123	161	58
	ERS200****C2	✓	L	A++	+	7	4352	751	132	145	40	-	6	7	5274	2352	880	682	109	158	123	161	58	✓	L	A++	+	7	3525	751	166	145	40	-	6	7	4382	1678	880	682	132	226	123	161	58
	EHS200****C(W)	✓	L	A++	+	7	4435	1040	129	104	40	-	6	7	5378	2408	1288	947	107	155	83	114	58	✓	L	A++	+	7	3607	1040	162	104	40	-	6	7	4472	1731	1288	947	129	219	83	114	58
	ERS200****C(W)	✓	L	A++	+	7	4352	1040	132	104	40	-	6	7	5274	2352	1288	947	109	158	83	114	58	✓	L	A++	+	7	3525	1040	166	104	40	-	6	7	4382	1678	1288	947	132	226	83	114	58
	EHS200****D	✓	L	A++	+	7	4435	751	129	145	41	-	6	7	5378	2408	877	678	107	155	123	161	58	✓	L	A++	+	7	3607	751	162	145	41	-	6	7	4472	1731	877	678	129	219	123	161	58

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-****D
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	10.0	kW	Seasonal space heating energy efficiency	η_s	130	%
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	8.9	kW	Tj = - 7 °C	COPd	1.95	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	3.20	-
Tj = + 2 °C	Pdh	5.4	kW	Tj = + 7 °C	COPd	4.79	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.12	-
Tj = + 7 °C	Pdh	4.7	kW	Tj = bivalent temperature	COPd	1.95	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.84	-
Tj = +12 °C	Pdh	5.3	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	8.9	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	8.6	kW	Rated heat output (*)	Psup	1.4	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}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	6204	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	145	%	
Daily electricity consumption	Q _{elec}	3.420	kWh				
Annual electricity consumption	AEC	752	kWh				

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 Assurance Department
 UNITED KINGDOM

· 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-****D
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		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.6	kW	Seasonal space heating energy efficiency	η_s	167	%
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	9.4	kW	Tj = - 7 °C	COPd	2.75	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	4.16	-
Tj = + 2 °C	Pdh	5.7	kW	Tj = + 7 °C	COPd	5.55	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.47	-
Tj = + 7 °C	Pdh	4.5	kW	Tj = bivalent temperature	COPd	2.75	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.44	-
Tj = +12 °C	Pdh	4.3	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	9.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	9.0	kW	Rated heat output (*)	Psup	1.6	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}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	5156	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	145	%	
Daily electricity consumption	Q _{elec}	3.420	kWh				
Annual electricity consumption	AEC	752	kWh				

Contact details

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The signature is signed in the average climate / medium-temperature section.

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(*) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-****D
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		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.9	kW	Seasonal space heating energy efficiency	η_s	108	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _d h	4.8	kW	T _j = - 7 °C	COP _d	2.55	-
Degradation co-efficient (**)	C _d h	0.99	-	T _j = + 2 °C	COP _d	2.90	-
T _j = + 2 °C	P _d h	2.9	kW	T _j = + 7 °C	COP _d	4.53	-
Degradation co-efficient (**)	C _d h	0.99	-	T _j = +12 °C	COP _d	6.65	-
T _j = + 7 °C	P _d h	3.5	kW	T _j = bivalent temperature	COP _d	1.42	-
Degradation co-efficient (**)	C _d h	0.98	-	T _j = operation limit temperature (***)	COP _d	1.42	-
T _j = +12 °C	P _d h	4.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _d h	0.98	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _d h	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _d h	7.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _d h	-	kW	Rated heat output (*)	P _{sup}	7.9	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-22	°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 / 60	dBA				
Annual energy consumption	Q _{HE}	7031	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	123	%	
Daily electricity consumption	Q _{elec}	3.990	kWh				
Annual electricity consumption	AEC	877	kWh				

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(**) If C_dh is not determined by measurement then the default degradation coefficient is C_dh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature T_j is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-****D
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		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.9	kW	Seasonal space heating energy efficiency	η_s	139	%
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	4.8	kW	Tj = - 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.70	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	5.44	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.47	-
Tj = + 7 °C	Pdh	3.6	kW	Tj = bivalent temperature	COPd	1.42	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.42	-
Tj = +12 °C	Pdh	4.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	7.5	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	7.9	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2700	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	5472	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	123	%	
Daily electricity consumption	Q _{elec}	3.990	kWh				
Annual electricity consumption	AEC	877	kWh				

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(**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-****D
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		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	180	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	1.69	-
Tj = + 2 °C	Pdh	10.0	kW	Tj = + 7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	5.66	-
Tj = + 7 °C	Pdh	6.4	kW	Tj = bivalent temperature	COPd	1.69	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.69	-
Tj = +12 °C	Pdh	4.0	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	2925	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	161	%	
Daily electricity consumption	Q _{elec}	3.080	kWh				
Annual electricity consumption	AEC	678	kWh				

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 (**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-****D
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		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.6	kW	Seasonal space heating energy efficiency	η_s	255	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	3.44	-
Tj = + 2 °C	Pdh	10.6	kW	Tj = + 7 °C	COPd	7.04	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	7.08	-
Tj = + 7 °C	Pdh	6.8	kW	Tj = bivalent temperature	COPd	3.44	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.44	-
Tj = +12 °C	Pdh	4.2	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	10.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.6	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	2196	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	161	%	
Daily electricity consumption	Q _{elec}	3.080	kWh				
Annual electricity consumption	AEC	678	kWh				

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

The signature is signed in the average climate / medium-temperature section.

Manager, Quality Assurance Department

UNITED KINGDOM

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(**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-MED
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:		no
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	10.0	kW	Seasonal space heating energy efficiency	η_s	130	%
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	8.9	kW	Tj = - 7 °C	COPd	1.95	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	3.20	-
Tj = + 2 °C	Pdh	5.4	kW	Tj = + 7 °C	COPd	4.79	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.12	-
Tj = + 7 °C	Pdh	4.7	kW	Tj = bivalent temperature	COPd	1.95	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.84	-
Tj = +12 °C	Pdh	5.3	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	8.9	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	8.6	kW	Rated heat output (*)	Psup	1.4	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}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	6204	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	145	%	
Daily electricity consumption	Q _{elec}	3.420	kWh				
Annual electricity consumption	AEC	752	kWh				

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 (**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-MED
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:	no	
Heat pump combination heater:	yes	
Parameters for	low-temperature application.	
Parameters for	average climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.6	kW	Seasonal space heating energy efficiency	η_s	167	%
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	9.4	kW	Tj = - 7 °C	COPd	2.75	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	4.16	-
Tj = + 2 °C	Pdh	5.7	kW	Tj = + 7 °C	COPd	5.55	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.47	-
Tj = + 7 °C	Pdh	4.5	kW	Tj = bivalent temperature	COPd	2.75	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.44	-
Tj = +12 °C	Pdh	4.3	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	9.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	9.0	kW	Rated heat output (*)	Psup	1.6	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}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2700	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	5156	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency			
Daily electricity consumption	Q _{elec}	3.420	kWh	η_{wh}	145	%	
Annual electricity consumption	AEC	752	kWh				

Contact details		MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD.		Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.	
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(**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-MED
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:	no	
Heat pump combination heater:	yes	
Parameters for	medium-temperature application.	
Parameters for	colder climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.9	kW	Seasonal space heating energy efficiency	η_s	108	%
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	4.8	kW	Tj = - 7 °C	COPd	2.55	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	2.90	-
Tj = + 2 °C	Pdh	2.9	kW	Tj = + 7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.65	-
Tj = + 7 °C	Pdh	3.5	kW	Tj = bivalent temperature	COPd	1.42	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.42	-
Tj = +12 °C	Pdh	4.2	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	7.5	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW				
Bivalent temperature	Tbiv	-20	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				

Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	7.9	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				Type of energy input			
Capacity control	variable			Electrical			

Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA	Rated air flow rate, outdoors	-	2700	m ³ /h
Annual energy consumption	Q _{HE}	7031	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	123	%	
Daily electricity consumption	Q _{elec}	3.990	kWh				
Annual electricity consumption	AEC	877	kWh				

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 (**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-MED
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:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.9	kW	Seasonal space heating energy efficiency	η_s	139	%
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	4.8	kW	Tj = - 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.70	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	5.44	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.47	-
Tj = + 7 °C	Pdh	3.6	kW	Tj = bivalent temperature	COPd	1.42	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.42	-
Tj = +12 °C	Pdh	4.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	7.5	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	7.9	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.015	kW			2700	m ³ /h
Thermostat-off mode	P _{TO}	0.015	kW	Other items			
Standby mode	P _{SB}	0.015	kW	Capacity control	variable		
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA
				Annual energy consumption	Q _{HE}	5472	kWh

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	123	%	
Daily electricity consumption	Qelec	3.990	kWh				
Annual electricity consumption	AEC	877	kWh				

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-MED
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:	no	
Heat pump combination heater:	yes	
Parameters for	medium-temperature application.	
Parameters for	warmer climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	180	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	1.69	-
Tj = + 2 °C	Pdh	10.0	kW	Tj = + 7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	5.66	-
Tj = + 7 °C	Pdh	6.4	kW	Tj = bivalent temperature	COPd	1.69	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.69	-
Tj = +12 °C	Pdh	4.0	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	2925	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	161	%	
Daily electricity consumption	Q _{elec}	3.080	kWh				
Annual electricity consumption	AEC	678	kWh				

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 (**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	EHST20C-MED
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:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.6	kW	Seasonal space heating energy efficiency	η_s	255	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	3.44	-
Tj = + 2 °C	Pdh	10.6	kW	Tj = + 7 °C	COPd	7.04	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	7.08	-
Tj = + 7 °C	Pdh	6.8	kW	Tj = bivalent temperature	COPd	3.44	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.44	-
Tj = +12 °C	Pdh	4.2	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	10.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.6	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	2196	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	161	%	
Daily electricity consumption	Q _{elec}	3.080	kWh				
Annual electricity consumption	AEC	678	kWh				

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(**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	ERST20C-****D
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.	

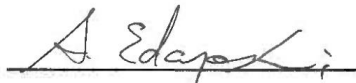
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	8.9	kW	Tj = - 7 °C	COPd	1.95	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	3.22	-
Tj = + 2 °C	Pdh	5.4	kW	Tj = + 7 °C	COPd	4.79	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.12	-
Tj = + 7 °C	Pdh	4.7	kW	Tj = bivalent temperature	COPd	1.95	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.84	-
Tj = +12 °C	Pdh	5.3	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	8.9	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	8.6	kW	Rated heat output (*)	Psup	1.4	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}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors	-	2700	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	6130	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	145	%
Declared load profile	L						
Daily electricity consumption	Q _{elec}	3.420	kWh				
Annual electricity consumption	AEC	752	kWh				

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 Assurance Department
 UNITED KINGDOM

· 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	ERST20C-****D
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		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.6	kW	Seasonal space heating energy efficiency	η_s	170	%
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	9.4	kW	Tj = - 7 °C	COPd	2.75	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	4.21	-
Tj = + 2 °C	Pdh	5.7	kW	Tj = + 7 °C	COPd	5.55	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.47	-
Tj = + 7 °C	Pdh	4.5	kW	Tj = bivalent temperature	COPd	2.75	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.44	-
Tj = +12 °C	Pdh	4.3	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	9.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	9.0	kW	Rated heat output (*)	Psup	1.6	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}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	5070	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	145	%	
Daily electricity consumption	Q _{elec}	3.420	kWh				
Annual electricity consumption	AEC	752	kWh				

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(**) 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	ERST20C-****D
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		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.9	kW	Seasonal space heating energy efficiency	η_s	109	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{d,h}	4.8	kW	T _j = - 7 °C	COP _d	2.55	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = + 2 °C	COP _d	2.95	-
T _j = + 2 °C	P _{d,h}	2.9	kW	T _j = + 7 °C	COP _d	4.53	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = +12 °C	COP _d	6.65	-
T _j = + 7 °C	P _{d,h}	3.5	kW	T _j = bivalent temperature	COP _d	1.42	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.42	-
T _j = +12 °C	P _{d,h}	4.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	7.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW	Rated heat output (*)	P _{sup}	7.9	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2700	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	6949	kWh				

For heat pump combination heater:							
Declared load profile				Water heating energy efficiency			
L				η_{wh}	123	%	
Daily electricity consumption	Q _{elec}	3.990	kWh				
Annual electricity consumption	AEC	877	kWh				

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(**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0,9.

(***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	ERST20C-****D
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		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.9	kW	Seasonal space heating energy efficiency	η_s	142	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{d,h}	4.8	kW	T _j = - 7 °C	COP _d	3.60	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = + 2 °C	COP _d	3.80	-
T _j = + 2 °C	P _{d,h}	3.2	kW	T _j = + 7 °C	COP _d	5.44	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	7.47	-
T _j = + 7 °C	P _{d,h}	3.6	kW	T _j = bivalent temperature	COP _d	1.42	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.42	-
T _j = +12 °C	P _{d,h}	4.3	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	7.5	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW				
Bivalent temperature	T _{biv}	-20	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	7.9	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors	-	2700	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	5382	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	123	%
Declared load profile	L						
Daily electricity consumption	Q _{elec}	3.990	kWh				
Annual electricity consumption	AEC	877	kWh				

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(**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0,9.

(***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	ERST20C-****D
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		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	183	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _d _h	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _d _h	-	-	T _j = + 2 °C	COP _d	1.69	-
T _j = + 2 °C	P _d _h	10.0	kW	T _j = + 7 °C	COP _d	4.50	-
Degradation co-efficient (**)	C _d _h	1.00	-	T _j = +12 °C	COP _d	5.66	-
T _j = + 7 °C	P _d _h	6.4	kW	T _j = bivalent temperature	COP _d	1.69	-
Degradation co-efficient (**)	C _d _h	0.99	-	T _j = operation limit temperature (***)	COP _d	1.69	-
T _j = +12 °C	P _d _h	4.0	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _d _h	0.98	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _d _h	10.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _d _h	10.0	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2700	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 60	dBA				
Annual energy consumption	Q _{HE}	2868	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	161	%	
Daily electricity consumption	Q _{elec}	3.080	kWh				
Annual electricity consumption	AEC	678	kWh				

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(**) If C_d_h is not determined by measurement then the default degradation coefficient is C_d_h = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature T_j is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUHZ-SW100VAA(-BS)
	Indoor unit:	ERST20C-****D
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		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.6	kW	Seasonal space heating energy efficiency	η_s	261	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	3.44	-
Tj = + 2 °C	Pdh	10.6	kW	Tj = + 7 °C	COPd	6.94	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	7.08	-
Tj = + 7 °C	Pdh	6.8	kW	Tj = bivalent temperature	COPd	3.44	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	3.44	-
Tj = +12 °C	Pdh	4.2	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	10.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.6	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items	Capacity control	variable	Rated air flow rate, outdoors	-	2700	m ³ /h
	Sound power level, indoors/outdoors	L _{WA}	40 / 60			dBA
	Annual energy consumption	Q _{HE}	2143			kWh

For heat pump combination heater:						
Declared load profile	L			Water heating energy efficiency	η_{wh}	161 %
Daily electricity consumption	Q _{elec}	3.080	kWh			
Annual electricity consumption	AEC	678	kWh			

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(**) 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.