Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	131	%
Declared capacity for heating for part load a	at indoor	ļ	ļ.	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.03	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	4.3	kW	Tj = + 2 °C	COPd	3.16	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.86	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.03	-
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	1.93	-
			1				
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode	•	•	Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				
Annual energy consumption	Q_{HE}	4929	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	136	%
Daily electricity consumption	Qelec	3.630	kWh				
Annual electricity consumption	AEC	798	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 Assuarance Department

[·] 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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	178	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj		-	part load at indoor temperature 20 °C and outdo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.00	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.7	kW	Tj = + 2 °C	COPd	4.45	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.98	-			,	
Tj = +12 °C	Pdh	3.2	kW	Tj = +12 °C	COPd	8.00	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.00	-
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	2.74	-
Bivalent temperature	Tbiv	-7	°c	Operation limit temperature	TOL	-25	°C
Reference design conditions for space	Tdesignh	-10	°C		WTOL	60	°C
heating		-10	Ŭ	Heating water operating limit temperature	WIGE	00	
Power consumption in modes other than act		0.045	LAA	Supplementary heater	Davis	4.2	144
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P _{TO}	0.015	kW	_ ,		FI	
Standby mode	P _{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode Other items	P _{CK}	0.000	kW				
	<u> </u>	variable		Rated air flow rate, outdoors		2220	m³/h
Capacity control		1	dBA		-	2220	m /n
Sound power level, indoors/outdoors	L _{WA}	41 / 56 3646	kWh				
Annual energy consumption	Q _{HE}	3040	KVVII				
For heat pump combination heater:	Ī					400	0/
Declared load profile	Oslas	L 2 620	L/A/Ib	Water heating energy efficiency	ηwh	136	%
Daily electricity consumption	Qelec	3.630	kWh				
Annual electricity consumption	AEC	798	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTI	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	and, U.K.
The identification and signature of the perso	n empowere	d to bind the	e supplier;	Atsushi EDAYOSHI			

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	110	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	_
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.62	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.22	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.90	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.60	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.36	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.35	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA				
Annual energy consumption	Q_{HE}	7003	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	112	%
Daily electricity consumption	Qelec	4.400	kWh				
Annual electricity consumption	AEC	968	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTI	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	I54 5EQ, Scot	land, U.K.
The identification and signature of the perso					J		-,
-	•			Atsushi EDAYOSHI			

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	139	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdoor	or temperatur	е Тј	_
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	3.92	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.49	-
Degradation co-efficient (**)	Cdh	0.98	-				ı
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.38	-
Degradation co-efficient (**)	Cdh	0.96	-				ı
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.09	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.66	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.9	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.16	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				"
Annual energy consumption	Q_{HE}	5544	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	112	%
Daily electricity consumption	Qelec	4.400	kWh]			
Annual electricity consumption	AEC	968	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;	<u> </u>			
				Atoughi FDAVOCIII			

Atsushi EDAYOSHI

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST17D-****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	8.0	kW	Seasonal space heating energy efficiency	ηs	161	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				ı
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	1.82	-
Degradation co-efficient (**)	Cdh	1.00	-				I
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-			L	J
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.98	-				ı
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.82	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.82	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode		•	Supplementary heater		•	
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW			•	
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items		•					
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				ı
Annual energy consumption	Q_{HE}	2604	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	154	%
Daily electricity consumption	Qelec	3.220	kWh				ı.
Annual electricity consumption	AEC	709	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Liv	/ingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the perso	n empowere	d to bind the	e supplier;	Atsushi EDAYOSHI			
The signature is signed in the average clim	nate / mediu	m-temperati	ure section.	Manager, Quality Assuarance Department			

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST17D-****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	8.0	kW	Seasonal space heating energy efficiency	ηs	218	%
Declared capacity for heating for part load a	t indoor	!		Declared coefficient of performance or primary en	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				ı
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.55	-
Degradation co-efficient (**)	Cdh	0.99	-				I
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.99	-			L	J
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-
Degradation co-efficient (**)	Cdh	0.98	-				I
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.55	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.55	-
			J				J
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode		I	Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW			I.	
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items		l.					
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				I
Annual energy consumption	Q_HE	1932	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	154	%
Daily electricity consumption	Qelec	3.220	kWh			<u>l</u>	ı
Annual electricity consumption	AEC	709	kWh				
Contact details		•					
MITSUBISHI ELECTRIC AIR CODITION				Nettlehill Road, Houston Industrial Estate, Liv	ingston, EH	54 5EQ, Scot	land, U.K.
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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	131	%
Declared capacity for heating for part load a	at indoor	•	•	Declared coefficient of performance or primary e	nergy ratio fo	or	,
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.03	-
Degradation co-efficient (**)	Cdh	1.00	-				•
Tj = + 2 °C	Pdh	4.3	kW	Tj = + 2 °C	COPd	3.16	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.86	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.03	-
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	1.93	-
			•				•
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA				
Annual energy consumption	Q_{HE}	4929	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	136	%
Daily electricity consumption	Qelec	3.630	kWh			<u></u>	
Annual electricity consumption	AEC	798	kWh				
Contact details		-					
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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

[·] 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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	178	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdoor	or temperatur	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.00	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.7	kW	Tj = + 2 °C	COPd	4.45	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.2	kW	Tj = +12 °C	COPd	8.00	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.00	-
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	2.74	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space							
heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode		Γ	Supplementary heater		1	
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items	T					1	
Capacity control		variable	Т	Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 56	dBA				
Annual energy consumption	Q _{HE}	3646	kWh				
For heat pump combination heater:	1					1	
Declared load profile		L	Γ	Water heating energy efficiency	ηwh	136	%
Daily electricity consumption	Qelec	3.630	kWh				
Annual electricity consumption	AEC	798	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the perso	n empowere	d to bind the	e supplier;	Atsushi FDAYOSHI			

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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^(***) 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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	110	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	е Тј	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.62	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.22	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.90	-
Degradation co-efficient (**)	Cdh	0.98	-				1
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.60	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.36	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.9	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.35	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than account of the consumption in modes of the consumption in the consumption in the construction in the	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA				
Annual energy consumption	Q_{HE}	7003	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	112	%
Daily electricity consumption	Qelec	4.400	kWh				
Annual electricity consumption	AEC	968	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIC				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;	Atauchi EDAVOSHI			
				Atsushi EDAYOSHI			

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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.

Model(s):		Outdoor unit	i:	PUD-SWM80VAA(-BS)			
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	139	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdoor	or temperatui	re Tj	_
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	3.92	-
Degradation co-efficient (**)	Cdh	0.99] -				•
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.49	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.38	-
Degradation co-efficient (**)	Cdh	0.96	-				•
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.09	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.66	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.16	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				
Annual energy consumption	Q_{HE}	5544	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	112	%
Daily electricity consumption	Qelec	4.400	kWh				•
Annual electricity consumption	AEC	968	kWh				
Contact details		•	•				
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the perso	n empowered	d to bind the	e supplier;				

Atsushi EDAYOSHI

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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.

Model(s):		Outdoor unit	t:	PUD-SWM80VAA(-BS)				
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	161	%	
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fo	r		
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatur	е Тј		
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-	
Degradation co-efficient (**)	Cdh	-	-				•	
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	1.82	-	
Degradation co-efficient (**)	Cdh	1.00	-				•	
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-	
Degradation co-efficient (**)	Cdh	0.99	-			•	•	
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-	
Degradation co-efficient (**)	Cdh	0.98	-				•	
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.82	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.82	-	
			•				•	
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C	
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	ive mode	•		Supplementary heater				
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P_{TO}	0.015	kW					
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical		
Crankcase heater mode	P_{CK}	0.000	kW					
Other items		1						
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				1	
Annual energy consumption	Q_{HE}	2604	kWh					
For heat pump combination heater:		1						
Declared load profile		L		Water heating energy efficiency	ηwh	154	%	
Daily electricity consumption	Qelec	3.220	kWh					
Annual electricity consumption	AEC	709	kWh					
Contact details		1	1					
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTI	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scot	land, U.K.	
The identification and signature of the person	n empowere	d to bind the	e supplier;	Atomatic EDAVOC! "				
The signature is signed in the average clim	nate / mediu	ım-temperatı	ure section	Atsushi EDAYOSHI Manager, Quality Assuarance Department				
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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		ERST17D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	218	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј		_	part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				•
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.55	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-
Degradation co-efficient (**)	Cdh	0.98	-				1
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.55	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.55	-
			1				ı
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ve mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA				•
Annual energy consumption	Q_{HE}	1932	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	154	%
Daily electricity consumption	Qelec	3.220	kWh				•
Annual electricity consumption	AEC	709	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;	Atquebi EDAVOCUI			
	ata / maa-!:::		a a a a ti a	Atsushi EDAYOSHI			

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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.

Model(s):		Outdoor unit		PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	131	%
Declared capacity for heating for part load a	t indoor	!	•	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.03	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	4.3	kW	Tj = + 2 °C	COPd	3.16	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.86	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.03	-
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	1.93	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA				
Annual energy consumption	Q_{HE}	4929	kWh				
For heat pump combination heater:	T					, ·	
Declared load profile		L	1	Water heating energy efficiency	ηwh	148	%
Daily electricity consumption	Qelec	3.340	kWh				
Annual electricity consumption	AEC	736	kWh				
Contact details							

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^(***) 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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	178	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatur	re Tj	_
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.00	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.7	kW	Tj = + 2 °C	COPd	4.45	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = +12 °C	Pdh	3.2	kW	Tj = +12 °C	COPd	8.00	-
Degradation co-efficient (**)	Cdh	0.96	-				•
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.00	-
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	2.74	-
Bivalent temperature	Tbiv	-7	°c	Operation limit temperature	TOL	-25	°c
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode			Supplementary heater		1	
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items					1		
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA	11			1
Annual energy consumption	Q_{HE}	3646	kWh				
For heat pump combination heater:			l .				
Declared load profile		L		Water heating energy efficiency	ηwh	148	%
Daily electricity consumption	Qelec	3.340	kWh	1			ı
Annual electricity consumption	AEC	736	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	M EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston FH	54 5EQ Scot	land. U K
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The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	110	%
Declared capacity for heating for part load a	t indoor		•	Declared coefficient of performance or primary e	nergy ratio fc	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatui	re Tj	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.62	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.22	_
Degradation co-efficient (**)	Cdh	0.99	-				l
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.90	_
Degradation co-efficient (**)	Cdh	0.98	-				<u>.</u>
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.60	_
Degradation co-efficient (**)	Cdh	0.97	-				l
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.36	_
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.35	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	•	'	Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				•
Annual energy consumption	Q_{HE}	7003	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				•
Annual electricity consumption	AEC	900	kWh				
Contact details			•				
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;				

Atsushi EDAYOSHI

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	139	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj		.	part load at indoor temperature 20 °C and outdoo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	3.92	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.49	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.38	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.09	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.66	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.16	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				
Annual energy consumption	Q_{HE}	5544	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the perso	n empowere	d to bind the	e supplier;	Atsushi EDAYOSHI			

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	161	%
Declared capacity for heating for part load a	t indoor	•	•	Declared coefficient of performance or primary e	nergy ratio fo	or	•
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				•
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	1.82	-
Degradation co-efficient (**)	Cdh	1.00	-				_
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.98	-				_
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.82	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.82	-
							1
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode			Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				_
Annual energy consumption	Q_{HE}	2604	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	162	%
Daily electricity consumption	Qelec	3.070	kWh				
Annual electricity consumption	AEC	675	kWh				
Contact details		•	•				
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;	Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	m-temperati	ure section.	Manager, Quality Assuarance Department			

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	218	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Гј	•	1	part load at indoor temperature 20 °C and outdo	or temperatur	е Тј	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.55	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.55	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.55	-
			_				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ve mode	1		Supplementary heater		1	
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA				
Annual energy consumption	Q_{HE}	1932	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	162	%
Daily electricity consumption	Qelec	3.070	kWh				
Annual electricity consumption	AEC	675	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person	empowere	d to bind the	e supplier;				
The circulature is signed in the course of	ata / maa -!:-:	toman a:t-	ti	Atsushi EDAYOSHI			

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-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	8.0	kW	Seasonal space heating energy efficiency	ηs	131	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	-
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.03	-
Degradation co-efficient (**)	Cdh	1.00	-				•
Tj = + 2 °C	Pdh	4.3	kW	Tj = + 2 °C	COPd	3.16	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.86	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.89	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.03	-
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	1.93	-
			•				•
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA				
Annual energy consumption	Q_{HE}	4929	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	148	%
Daily electricity consumption	Qelec	3.340	kWh				
Annual electricity consumption	AEC	736	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 Assuarance Department

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-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	8.0	kW	Seasonal space heating energy efficiency	ηs	178	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	_
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.00	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.7	kW	Tj = + 2 °C	COPd	4.45	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.98	-				,
Tj = +12 °C	Pdh	3.2	kW	Tj = +12 °C	COPd	8.00	-
Degradation co-efficient (**)	Cdh	0.96	-				•
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.00	-
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	2.74	-
Division to an area to an	The.	7] "	Occupition Book to account on	TO	25	1
Bivalent temperature Reference design conditions for space	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				,
Annual energy consumption	Q_{HE}	3646	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	148	%
Daily electricity consumption	Qelec	3.340	kWh				•
Annual electricity consumption	AEC	736	kWh				
Contact details		•	•				
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	I54 5EQ, Scot	land, U.K.
The identification and signature of the perso	n empowere	d to bind the	e supplier;	Atsushi EDAYOSHI			

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

UNITED KINGDOM

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Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-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	8.0	kW	Seasonal space heating energy efficiency	ηs	110	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fc	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoor	or temperatui	re Tj	
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.62	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.22	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.90	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.60	-
Degradation co-efficient (**)	Cdh	0.97] -				•
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.36	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	6.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.35	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L_{WA}	41 / 56	dBA				
Annual energy consumption	Q_{HE}	7003	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITION	NING SYST	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person				,		,	,
				Atsushi EDAYOSHI			

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

[·] 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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-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	8.0	kW	Seasonal space heating energy efficiency	ηs	139	%
Declared capacity for heating for part load a	t indoor		•	Declared coefficient of performance or primary e	nergy ratio fc	r	!
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor	or temperatui	е Тј	
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.36	-
Degradation co-efficient (**)	Cdh	0.99	-				1
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	3.92	-
Degradation co-efficient (**)	Cdh	0.99	-				1
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.49	-
Degradation co-efficient (**)	Cdh	0.98	-				1
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.38	_
Degradation co-efficient (**)	Cdh	0.96	-				1
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.09	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.66	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.16	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode		•	Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items		•					
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				•
Annual energy consumption	Q_{HE}	5544	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				=
Annual electricity consumption	AEC	900	kWh				
Contact details					<u></u>		
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the perso	n empowere	a to bind the	e supplier;				

Atsushi EDAYOSHI

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-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	8.0	kW	Seasonal space heating energy efficiency	ηs	161	%
Declared capacity for heating for part load a	t indoor		!	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	_
Degradation co-efficient (**)	Cdh	-	-				1
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	1.82	-
Degradation co-efficient (**)	Cdh	1.00	-				1
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-				1
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.82	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.82	-
			•				•
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ve mode			Supplementary heater		1	
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW			1	
Standby mode	P_SB	0.015	kW	Type of energy input	ı	Electrical	
Crankcase heater mode	P_{CK}	0.000	kW		ı		
Other items			•				
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				•
Annual energy consumption	Q_{HE}	2604	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	162	%
Daily electricity consumption	Qelec	3.070	kWh				•
Annual electricity consumption	AEC	675	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Liv	/ingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	a to bind the	e supplier;	Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	m-temperati	ure section.	Manager, Quality Assuarance Department			

[·] Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

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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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)			
		Indoor unit:		EHST20D-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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	218	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј		1	part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	1
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				-
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.55	-
Degradation co-efficient (**)	Cdh	0.99	-				_
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.55	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.55	-
			•				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ve mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA				
Annual energy consumption	Q_{HE}	1932	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	162	%
Daily electricity consumption	Qelec	3.070	kWh				
Annual electricity consumption	AEC	675	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	empowere	d to bind the	e supplier;				
The signature is signed in the survey office	ata / maadha		ti	Atsushi EDAYOSHI			

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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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.

Model(s):		Outdoor unit	t:	PUD-SWM80VAA(-BS)				
		Indoor unit:		ERST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηѕ	131	%	
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	-	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	2.03	-	
Degradation co-efficient (**)	Cdh	1.00	-				•	
Tj = + 2 °C	Pdh	4.3	kW	Tj = + 2 °C	COPd	3.16	-	
Degradation co-efficient (**)	Cdh	0.99	-				1	
Tj = + 7 °C	Pdh	5.3	kW	Tj = + 7 °C	COPd	4.86	-	
Degradation co-efficient (**)	Cdh	0.99	-				•	
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.89	-	
Degradation co-efficient (**)	Cdh	0.97	-				•	
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	2.03	-	
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	1.93	-	
			•				•	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C	
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	ive mode			Supplementary heater				
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW	
Thermostat-off mode	P_{TO}	0.015	kW					
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical		
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA					
Annual energy consumption	Q_{HE}	4929	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	148	%	
Daily electricity consumption	Qelec	3.340	kWh					
Annual electricity consumption	AEC	736	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 Assuarance Department

[·] 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.

Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)					
		Indoor unit:		ERST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	178	%		
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoor temperature Tj					
Tj = - 7 °C	Pdh	7.1	kW	Tj = - 7 °C	COPd	3.00	-		
Degradation co-efficient (**)	Cdh	0.99	-						
Tj = + 2 °C	Pdh	4.7	kW	Tj = + 2 °C	COPd	4.45	-		
Degradation co-efficient (**)	Cdh	0.99	-						
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	6.00	-		
Degradation co-efficient (**)	Cdh	0.98	-			<u>, </u>			
Tj = +12 °C	Pdh	3.2	kW	Tj = +12 °C	COPd	8.00	-		
Degradation co-efficient (**)	Cdh	0.96	-						
Tj = bivalent temperature	Pdh	7.1	kW	Tj = bivalent temperature	COPd	3.00	-		
Tj = operation limit temperature (***)	Pdh	6.7	kW	Tj = operation limit temperature (***)	COPd	2.74	-		
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C		
Reference design conditions for space	Tdesignh	-10	°C		WTOL	60	°C		
heating		-10	C	Heating water operating limit temperature	WIOL	60			
Power consumption in modes other than act	ive mode		Γ	Supplementary heater		1 1			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	1.3	kW		
Thermostat-off mode	P _{TO}	0.015	kW						
Standby mode	P_{SB}	0.015	kW	Type of energy input		Electrical			
Crankcase heater mode	P _{CK}	0.000	kW						
Other items	1					1			
Capacity control		variable	Т	Rated air flow rate, outdoors	-	2220	m ³ /h		
Sound power level, indoors/outdoors	L_{WA}	41 / 56	dBA						
Annual energy consumption	Q_{HE}	3646	kWh						
For heat pump combination heater:	Ţ								
Declared load profile		L		Water heating energy efficiency	ηwh	148	%		
Daily electricity consumption	Qelec	3.340	kWh						
Annual electricity consumption	AEC	736	kWh						
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotl	and, U.K.		
The identification and signature of the perso	n empowere	d to bind the	e supplier;	Atsushi FDAYOSHI					

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

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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.

Model(s): Outdoor unit:			:	PUD-SWM80VAA(-BS)			
		Indoor unit:		ERST20D-****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	8.0	kW	Seasonal space heating energy efficiency	ηs	110	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj		-	part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	-
Tj = - 7 °C	Pdh	4.9	kW	Tj = - 7 °C	COPd	2.62	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.22	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	4.3	kW	Tj = + 7 °C	COPd	4.90	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	6.60	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	1.36	-
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.41	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.35	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				•
Annual energy consumption	Q_{HE}	7003	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	4.090	kWh				-
Annual electricity consumption	AEC	900	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the perso				Atsushi EDAYOSHI	<u> </u>		<u> </u>

The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department

[·] Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

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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.

Model(s):		Outdoor unit	i:	PUD-SWM80VAA(-BS)					
		Indoor unit:		ERST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	139	%		
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdoor temperature Tj					
Tj = - 7 °C	Pdh	4.8	kW	Tj = - 7 °C	COPd	3.36	-		
Degradation co-efficient (**)	Cdh	0.99	-				•		
Tj = + 2 °C	Pdh	3.8	kW	Tj = + 2 °C	COPd	3.92	-		
Degradation co-efficient (**)	Cdh	0.99	-				•		
Tj = + 7 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.49	-		
Degradation co-efficient (**)	Cdh	0.98	-				-		
Tj = +12 °C	Pdh	3.1	kW	Tj = +12 °C	COPd	7.38	-		
Degradation co-efficient (**)	Cdh	0.96	-				-		
Tj = bivalent temperature	Pdh	6.7	kW	Tj = bivalent temperature	COPd	2.09	-		
Tj = operation limit temperature (***)	Pdh	5.4	kW	Tj = operation limit temperature (***)	COPd	1.66	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh	6.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.16	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-25	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	tive mode			Supplementary heater					
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	2.6	kW		
Thermostat-off mode	P_{TO}	0.015	kW						
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical			
Crankcase heater mode	P_{CK}	0.000	kW						
Other items									
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m ³ /h		
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA						
Annual energy consumption	Q_{HE}	5544	kWh						
For heat pump combination heater:									
Declared load profile		L		Water heating energy efficiency	ηwh	120	%		
Daily electricity consumption	Qelec	4.090	kWh				=		
Annual electricity consumption	AEC	900	kWh						
Contact details									
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		Indoor unit:		ERST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	161	%
Declared capacity for heating for part load a	t indoor	•	•	Declared coefficient of performance or primary e	nergy ratio fo	r	•
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatur	е Тј	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				•
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	1.82	-
Degradation co-efficient (**)	Cdh	1.00	-				_
Tj = + 7 °C	Pdh	5.2	kW	Tj = + 7 °C	COPd	3.48	-
Degradation co-efficient (**)	Cdh	0.99	-				-
Tj = +12 °C	Pdh	4.5	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.98	-				-
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	1.82	-
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	1.82	-
			-				•
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode			Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items		•					
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 56	dBA				•
Annual energy consumption	Q_{HE}	2604	kWh				
For heat pump combination heater:							
Declared load profile		L		Water heating energy efficiency	ηwh	162	%
Daily electricity consumption	Qelec	3.070	kWh				•
Annual electricity consumption	AEC	675	kWh				
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Model(s):		Outdoor unit	:	PUD-SWM80VAA(-BS)				
		Indoor unit:		ERST20D-***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	8.0	kW	Seasonal space heating energy efficiency	ηs	218	%	
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	r		
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoor	or temperatur	те Тј		
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-	
Degradation co-efficient (**)	Cdh	-	-				•	
Tj = + 2 °C	Pdh	8.0	kW	Tj = + 2 °C	COPd	3.55	-	
Degradation co-efficient (**)	Cdh	0.99	-				•	
Tj = + 7 °C	Pdh	5.1	kW	Tj = + 7 °C	COPd	5.05	-	
Degradation co-efficient (**)	Cdh	0.99	-				•	
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.12	-	
Degradation co-efficient (**)	Cdh	0.98	-				•	
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	3.55	-	
Tj = operation limit temperature (***)	Pdh	8.0	kW	Tj = operation limit temperature (***)	COPd	3.55	-	
		<u> </u>	•				•	
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C	
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
Power consumption in modes other than act	ive mode			Supplementary heater				
Off mode	P_{OFF}	0.015	kW	Rated heat output (*)	Psup	0.0	kW	
Thermostat-off mode	P_{TO}	0.015	kW					
Standby mode	P_SB	0.015	kW	Type of energy input		Electrical		
Crankcase heater mode	P _{CK}	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	2220	m³/h	
Sound power level, indoors/outdoors	L_WA	41 / 56	dBA					
Annual energy consumption	Q_{HE}	1932	kWh					
For heat pump combination heater:								
Declared load profile		L		Water heating energy efficiency	ηwh	162	%	
Daily electricity consumption	Qelec	3.070	kWh					
Annual electricity consumption	AEC	675	kWh					
Contact details					_			
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