

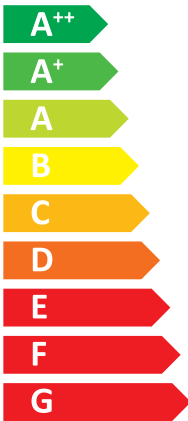
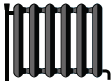


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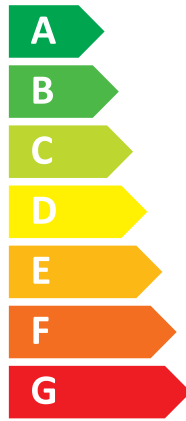
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Indoor unit EHPT20X-\*\*C (W)  
Outdoor unit PUHZ-W112YAA (-BS)



**A++**



**A**

Two sound power level icons. The top one shows a speaker icon with sound waves and the text "40 dB". The bottom one shows a house icon with sound waves and the text "60 dB".



A legend for power consumption with three colored squares: dark blue for "07 kW", medium blue for "10 kW", and light blue for "10 kW".

2015

811/2013

BH79J465H23

		For medium-temperature application.																						For low-temperature application.																					
1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Outdoor unit	Indoor unit	Medium-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual electricity consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level L <sub>WA,indoor</sub>	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under colder climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L <sub>WA,outdoor</sub>	Low-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual electricity consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level L <sub>WA,indoor</sub>	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under colder climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L <sub>WA,outdoor</sub>		
					kW	kWh	kWh	%	%	dB		kW	kW	kWh	kWh	kWh	kWh	%	%	%	%	dB				kW	kWh	kWh	%	%	dB								%	%	%	%	dB		
PUHZ-W85VAA	EHPT20X-**C(W)	✓	A++	A	8.5	4882	1031	137	104	40	-	5.3	8.5	4579	2587	1224	854	106	169	87	126	58	✓	A++	A	8.5	3903	1031	171	104	40	-	5.3	8.5	3465	1777	1224	854	139	245	87	126	58		
	EHPT20X-**C2	✓	A++	A	8.5	4882	759	137	142	40	-	5.3	8.5	4579	2587	893	638	106	169	120	170	58	✓	A++	A	8.5	3903	759	171	142	40	-	5.3	8.5	3465	1777	893	638	139	245	120	170	58		
	EHPX-**C	✓	A++	-	8.5	4882	-	137	-	40	-	5.3	8.5	4579	2587	-	-	106	169	-	-	58	✓	A++	-	8.5	3903	-	171	-	40	-	5.3	8.5	3465	1777	-	-	139	245	-	-	58		
PUHZ-W85YAA	EHPT20X-**C(W)	✓	A++	A	8.5	4889	1031	136	104	40	-	5.3	8.5	4618	2590	1224	854	104	167	87	126	58	✓	A++	A	8.5	3911	1031	169	104	40	-	5.3	8.5	3491	1781	1224	854	136	241	87	126	58		
	EHPT20X-**C2	✓	A++	A	8.5	4889	759	136	142	40	-	5.3	8.5	4618	2590	893	638	104	167	120	170	58	✓	A++	A	8.5	3911	759	169	142	40	-	5.3	8.5	3491	1781	893	638	136	241	120	170	58		
	EHPX-**C	✓	A++	-	8.5	4889	-	136	-	40	-	5.3	8.5	4618	2590	-	-	104	167	-	-	58	✓	A++	-	8.5	3911	-	169	-	40	-	5.3	8.5	3491	1781	-	-	136	241	-	-	58		
PUHZ-W112VAA	EHPT20X-**C(W)	✓	A++	A	10.0	5955	1064	133	100	40	-	7.3	10.0	6246	3017	1308	921	108	171	81	117	60	✓	A++	A	10.0	4636	1064	170	100	40	-	7.3	10.0	4532	2153	1308	921	148	239	81	117	60		
	EHPT20X-**C2	✓	A++	A	10.0	5955	852	133	127	40	-	7.3	10.0	6246	3017	1010	714	108	171	107	153	60	✓	A++	A	10.0	4636	852	170	127	40	-	7.3	10.0	4532	2153	1010	714	148	239	107	153	60		
	EHPX-**C	✓	A++	-	10.0	5955	-	133	-	40	-	7.3	10.0	6246	3017	-	-	108	171	-	-	60	✓	A++	-	10.0	4636	-	170	-	40	-	7.3	10.0	4532	2153	-	-	148	239	-	-	60		
PUHZ-W112YAA	EHPT20X-**C(W)	✓	A++	A	10.0	5968	1064	132	100	40	-	7.3	10.0	6207	3023	1308	921	108	169	81	117	60	✓	A++	A	10.0	4644	1064	169	100	40	-	7.3	10.0	4553	2160	1308	921	146	235	81	117	60		
	EHPT20X-**C2	✓	A++	A	10.0	5955	852	133	127	40	-	7.3	10.0	6246	3017	1010	714	108	171	107	153	60	✓	A++	A	10.0	4636	852	170	127	40	-	7.3	10.0	4532	2153	1010	714	148	239	107	153	60		
	EHPX-**C	✓	A++	-	10.0	5968	-	132	-	40	-	7.3	10.0	6207	3023	-	-	108	169	-	-	60	✓	A++	-	10.0	4644	-	169	-	40	-	7.3	10.0	4553	2160	-	-	146	235	-	-	60		

Model(s):	Outdoor unit:	PUHZ-W112YAA
	Indoor unit:	EHPT20X-**C(W)
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
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	$\eta_s$	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.99	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.7	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.30	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.86	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.35	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.99	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.45	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	1.6	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dB(A)
Annual energy consumption	Q <sub>HE</sub>	5968	kWh
Rated air flow rate, outdoors		2700	m <sup>3</sup> /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	4.800	kWh
Annual electricity consumption	AEC	1064	kWh
Water heating energy efficiency	$\eta_{wh}$	100	%

#### Contact details

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUHZ-W112YAA
	Indoor unit:	EHPT20X-**C(W)
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-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	$\eta_s$	169	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	8.9	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.17	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.4	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.24	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.6	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.31	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.66	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.95	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8.9	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3.17	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.38	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	1.7	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dB(A)
Annual energy consumption	Q <sub>HE</sub>	4644	kWh
Rated air flow rate, outdoors		2700	m <sup>3</sup> /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	4.800	kWh
Annual electricity consumption	AEC	1064	kWh
Water heating energy efficiency	$\eta_{wh}$	100	%

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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 P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUHZ-W112YAA
	Indoor unit:	EHPT20X-**C(W)
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.3	kW	Seasonal space heating energy efficiency	$\eta_s$	108	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.41	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	4.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.23	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.5	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.71	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.67	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.38	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-18	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	7.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dB(A)
Annual energy consumption	Q <sub>HE</sub>	6207	kWh
Rated air flow rate, outdoors		2700	m <sup>3</sup> /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	6.000	kWh
Annual electricity consumption	AEC	1308	kWh
Water heating energy efficiency	$\eta_{wh}$	81	%

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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 P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUHZ-W112YAA
	Indoor unit:	EHPT20X-**C(W)
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.3	kW	Seasonal space heating energy efficiency	$\eta_s$	146	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.53	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	4.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.18	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.41	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.54	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.58	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	2.53	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-18	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	7.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dB(A)
Annual energy consumption	Q <sub>HE</sub>	4553	kWh
Rated air flow rate, outdoors		2700	m <sup>3</sup> /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	6.000	kWh
Annual electricity consumption	AEC	1308	kWh
Water heating energy efficiency	$\eta_{wh}$	81	%

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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.

Model(s):	Outdoor unit:	PUHZ-W112YAA
	Indoor unit:	EHPT20X-**C(W)
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
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	$\eta_s$	169	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	10	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.98	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.79	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.0	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.84	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.89	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.38	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dB(A)
Annual energy consumption	Q <sub>HE</sub>	3023	kWh
Rated air flow rate, outdoors		2700	m <sup>3</sup> /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	4.200	kWh
Annual electricity consumption	AEC	921	kWh
Water heating energy efficiency	$\eta_{wh}$	117	%

#### Contact details

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

(\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUHZ-W112YAA
	Indoor unit:	EHPT20X-**C(W)
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-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	$\eta_s$	235	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	10	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.34	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.69	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.43	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8.9	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3.17	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.5	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.38	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	2700	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40/60	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	2160	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	117	%
Declared load profile		L					
Daily electricity consumption	Q <sub>elec</sub>	4.200	kW/h				
Annual electricity consumption	AEC	921	kW/h				

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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.