



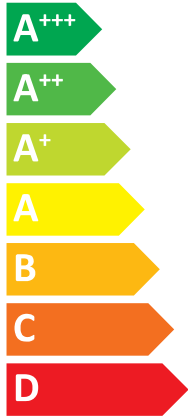
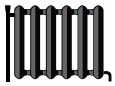
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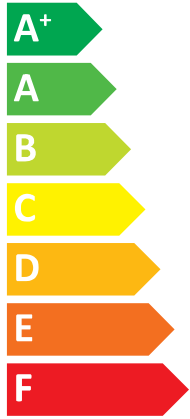
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Indoor unit E*PT17/20X-****D(W)
Outdoor unit PUZ-WM50VHA(-BS)



A++



A+



40 dB

61 dB



- 04 kW
- 05 kW
- 05 kW

2019

811/2013

BH79V003H60



Outdoor unit	Indoor unit	3	5	6	7	8	9	10	11	For medium-temperature application.				14	15	16	17	18	19	20	21	22	23	24	4	5	6	7	8	9	10	11	12	For low-temperature application.										
										12	13	14	15																					14	15	16	17	18	19	20	21	22	23	24
PUZ-MMS90(A)-BS	EHPT17X-□□	Medium-temperature application	A++	A+	5.0	3014	902	729	120	20	3.1	5.0	2760	1616	1066	805	805	107	157	101	135	135	61	1	A+++	A+	5.0	213	202	180	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61	
	EHPT17X-□□	Medium-temperature application	A++	A+	5.0	3014	902	133	130	40	3.1	5.0	2760	1616	1066	805	805	111	162	101	135	135	61	1	A+++	A+	5.0	213	202	180	120	40	4.2	5.0	2713	1111	1065	805	146	227	101	135	61	
	EHPT20X-□□	Medium-temperature application	A++	A+	5.0	3014	803	129	135	40	3.1	5.0	2760	1616	1066	934	709	107	162	116	154	61	61	1	A+++	A+	5.0	213	803	163	135	40	4.2	5.0	2713	1111	934	709	141	226	116	154	61	
	EHPT20X-□□	Medium-temperature application	A++	A+	5.0	3014	803	133	135	40	3.1	5.0	2760	1616	1066	934	709	110	162	116	154	61	61	1	A+++	A+	5.0	213	803	163	135	40	4.2	5.0	2713	1111	934	709	146	227	116	154	61	
	EHPT20X-□□	Medium-temperature application	A++	A+	6.0	3318	899	142	120	40	5.0	6.0	3671	1991	1073	803	803	127	154	101	135	58	58	61	1	A+++	A+	6.0	2475	899	180	120	40	4.4	6.0	2482	1397	1073	803	166	216	101	135	58
	EHPT20X-□□	Medium-temperature application	A++	A+	6.0	3318	749	142	145	40	5.0	6.0	3671	1991	927	679	679	127	154	116	161	58	58	60	1	A+++	A+	6.0	2475	749	190	145	40	4.4	6.0	2482	1397	927	679	166	216	116	161	58
	EHPT20X-□□	Medium-temperature application	A++	A+	6.0	3318	749	145	145	40	5.0	6.0	3671	1991	927	679	679	130	158	116	161	58	58	60	1	A+++	A+	6.0	2475	749	197	145	40	4.4	6.0	2482	1397	927	679	173	226	116	161	58
	EHPT20X-□□	Medium-temperature application	A++	A+	6.0	3318	749	142	145	40	5.0	6.0	3671	1991	927	679	679	127	154	101	135	58	58	60	1	A+++	A+	6.0	2475	749	197	145	40	4.4	6.0	2482	1397	927	679	166	216	116	161	58
	EHPT17X-□□	Medium-temperature application	A++	A+	8.5	4837	899	141	120	40	6.1	8.5	4376	2799	1073	803	803	132	159	101	135	58	58	60	1	A+++	A+	8.5	3473	899	193	120	40	4.9	8.5	2733	1916	1073	803	169	227	101	135	58
	EHPT17X-□□	Medium-temperature application	A++	A+	8.5	4837	899	139	120	40	6.1	8.5	4376	2799	1073	803	803	132	159	116	161	58	58	60	1	A+++	A+	8.5	3473	749	193	145	40	4.9	8.5	2733	1916	1073	803	175	234	116	161	58
	EHPT20X-□□	Medium-temperature application	A++	A+	8.5	4837	749	141	145	40	6.1	8.5	4376	2799	927	679	679	132	159	116	161	58	58	60	1	A+++	A+	8.5	3473	749	197	145	40	4.9	8.5	2733	1916	927	679	175	234	116	161	58
	EHPT20X-□□	Medium-temperature application	A++	A	8.5	4837	1451	138	120	40	6.1	8.5	4376	2799	1808	1294	1294	129	159	96	135	58	58	60	1	A+++	A	8.5	3473	1451	197	120	40	4.9	8.5	2733	1916	1808	1294	175	234	96	135	58
EHPT20X-□□	Medium-temperature application	A++	A	8.5	4837	1451	141	120	40	6.1	8.5	4376	2799	1808	1294	1294	132	159	96	135	58	58	60	1	A+++	A	8.5	3473	1451	197	120	40	4.9	8.5	2733	1916	1808	1294	175	234	96	135	58	
EHPT20X-□□	Medium-temperature application	A++	A+	8.5	4837	899	138	120	40	6.1	8.5	4376	2799	1073	803	803	128	155	101	135	58	58	60	1	A+++	A+	8.5	3473	899	190	120	40	4.9	8.5	2733	1916	1073	803	166	224	101	135	58	
EHPT17X-□□	Medium-temperature application	A++	A+	8.5	4837	899	141	120	40	6.1	8.5	4376	2799	1073	803	803	132	159	101	135	58	58	60	1	A+++	A+	8.5	3473	899	197	120	40	4.9	8.5	2733	1916	1073	803	175	234	101	135	58	
EHPT20X-□□	Medium-temperature application	A++	A+	8.5	4837	749	139	145	40	6.1	8.5	4376	2799	927	679	679	129	155	116	161	58	58	60	1	A+++	A+	8.5	3473	749	190	145	40	4.9	8.5	2733	1916	927	679	166	224	116	161	58	
EHPT20X-□□	Medium-temperature application	A++	A	8.5	4837	1451	138	120	40	6.1	8.5	4376	2799	1808	1294	1294	129	155	96	135	58	58	60	1	A+++	A	8.5	3473	1451	197	120	40	4.9	8.5	2733	1916	1808	1294	175	234	96	135	58	
EHPT20X-□□	Medium-temperature application	A++	A	8.5	4837	1451	141	120	40	6.1	8.5	4376	2799	1808	1294	1294	132	159	96	135	58	58	60	1	A+++	A	8.5	3473	1451	197	120	40	4.9	8.5	2733	1916	1808	1294	175	234	96	135	58	
EHPT20X-□□	Medium-temperature application	A++	A+	8.5	4837	899	138	120	40	6.1	8.5	4376	2799	1073	803	803	128	155	101	135	58	58	60	1	A+++	A+	8.5	3473	899	190	120	40	4.9	8.5	2733	1916	1073	803	166	224	101	135	58	
EHPT17X-□□	Medium-temperature application	A++	A+	8.5	4837	899	141	120	40	6.1	8.5	4376	2799	1073	803	803	132	159	101	135	58	58	60	1	A+++	A+	8.5	3473	899	197	120	40	4.9	8.5	2733	1916	1073	803	175	234	101	135	58	
EHPT20X-□□	Medium-temperature application	A++	A+	8.5	4837	749	139	145	40	6.1	8.5	4376	2799	927	679	679	129	155	116	161	58	58	60	1	A+++	A+	8.5	3473	749	190	145	40	4.9	8.5	2733	1916	927	679	166	224	116	161	58	
EHPT20X-□□	Medium-temperature application	A++	A	8.5	4837	1451	138	120	40	6.1	8.5	4376	2799	1808	1294	1294	129	155	96	135	58	58	60	1	A+++	A	8.5	3473	1451	197	120	40	4.9	8.5	2733	1916	1808	1294	175	234	96	135	58	
EHPT20X-□□	Medium-temperature application	A++	A	8.5	4837	1451	141	120	40	6.1	8.5	4376	2799	1808	1294	1294	132	159	96	135	58	58	60	1	A+++	A	8.5	3473	1451	197	120	40	4.9	8.5	2733	1916	1808	1294	175	234	96	135	58	
EHPT20X-□□	Medium-temperature application	A++	A+	8.5	4837	899	138	120	40	6.1	8.5	4376	2799	1073	803	803	128	155	101	135	58	58	60	1	A+++	A+	8.5	3473	899	190	120	40	4.9	8.5	2733	1916	1073	803	166	224	101	135	58	
EHPT17X-□□	Medium-temperature application	A++	A+	8.5	4837	899	141	120	40	6.1	8.5	4376	2799	1073	803	803	132	159	101	135	58	58	60	1	A+++	A+	8.5	3473	899	197	120	40	4.9	8.5	2733	1916	1073	803	175	234	101	135	58	
EHPT20X-□□	Medium-temperature application	A++	A+	8.5	4837	749	139	145	40	6.1	8.5	4376	2799	927	679	679	129	155	116	161	58	58	60	1	A+++	A+	8.5	3473	749	190	145	40	4.9	8.5	2733	1916	927	679	166	224	116	161	58	
EHPT20X-□□	Medium-temperature application	A++	A	8.5	4837	1451	138	120	40	6.1	8.5	4376	2799	1808	1294	1294	129	155	96	135	58	58	60	1	A+++	A	8.5	3473	1451	197	120	40	4.9	8.5	2733	1916	1808	1294	175	234	96	135	58	
EHPT20X-□□	Medium-temperature application	A++	A	8.5	4837	1451	141	120	40	6.1	8.5	4376	2799	1808	1294	1294	132	159	96	135	58	58	60	1	A+++	A	8.5	3473	1451	197	120	40	4.9	8.5	2733	1916	1808	1294	175	234	96	135	58	
EHPT20X-□□	Medium-temperature application	A++	A+	8.5	4837	899	138	120	40	6.1	8.5	4376	2799	1073	803	803	128	155	101	135	58	58	60	1	A+++	A+	8.5	3473	899	190	120	40	4.9	8.5	2733	1916	1073	803	166	224	101	135	58	
EHPT17X-□□	Medium-temperature application	A++	A+	8.5	4837	899	141	120	40	6.1	8.5	4376	2799	1073	803	803	132	159	101	135</																								

Engheta	Danish	Francia	Hispano	Eslovak
1	Outer unit	Frank	Frangas	Evropa
2	Inner unit	Frank	Frangas	Evropa
3	Medium temperature radiation	Frank	Frangas	Evropa
4	High temperature radiation	Frank	Frangas	Evropa
5	Low temperature radiation	Frank	Frangas	Evropa
6	High temperature radiation	Frank	Frangas	Evropa
7	Low temperature radiation	Frank	Frangas	Evropa
8	High temperature radiation	Frank	Frangas	Evropa
9	Low temperature radiation	Frank	Frangas	Evropa
10	High temperature radiation	Frank	Frangas	Evropa
11	Low temperature radiation	Frank	Frangas	Evropa
12	High temperature radiation	Frank	Frangas	Evropa
13	Low temperature radiation	Frank	Frangas	Evropa
14	High temperature radiation	Frank	Frangas	Evropa
15	Low temperature radiation	Frank	Frangas	Evropa
16	High temperature radiation	Frank	Frangas	Evropa
17	Low temperature radiation	Frank	Frangas	Evropa
18	High temperature radiation	Frank	Frangas	Evropa
19	Low temperature radiation	Frank	Frangas	Evropa
20	High temperature radiation	Frank	Frangas	Evropa
21	Low temperature radiation	Frank	Frangas	Evropa
22	High temperature radiation	Frank	Frangas	Evropa
23	Low temperature radiation	Frank	Frangas	Evropa
24	High temperature radiation	Frank	Frangas	Evropa

Model(s):	Outdoor unit:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	129	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	2.04	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	2.7	kW	T _j = + 2 °C	COP _d	3.29	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	1.7	kW	T _j = + 7 °C	COP _d	4.47	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = +12 °C	P _{dh}	1.8	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = bivalent temperature	P _{dh}	4.4	kW	T _j = bivalent temperature	COP _d	2.04	-
T _j = operation limit temperature	P _{dh}	3.5	kW	T _j = operation limit temperature	COP _d	1.75	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	3014	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	902	kWh				

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 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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	183	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	3.17	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.7	kW	T _j = + 2 °C	COP _d	4.58	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.9	kW	T _j = + 7 °C	COP _d	6.55	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = +12 °C	P _{dh}	1.8	kW	T _j = +12 °C	COP _d	8.57	-
Degradation co-efficient (**)	C _{dh}	0.92	-				
T _j = bivalent temperature	P _{dh}	4.4	kW	T _j = bivalent temperature	COP _d	3.17	-
T _j = operation limit temperature	P _{dh}	3.5	kW	T _j = operation limit temperature	COP _d	1.75	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2113	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	902	kWh				

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

Model(s):	Outdoor unit:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-**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	3.1	kW	Seasonal space heating energy efficiency	η_s	107	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.5	kW	T _j = - 7 °C	COP _d	2.36	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.5	kW	T _j = + 2 °C	COP _d	3.42	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.5	kW	T _j = + 7 °C	COP _d	4.41	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = +12 °C	P _{dh}	1.8	kW	T _j = +12 °C	COP _d	6.92	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = bivalent temperature	P _{dh}	2.5	kW	T _j = bivalent temperature	COP _d	1.93	-
T _j = operation limit temperature	P _{dh}	2.5	kW	T _j = operation limit temperature	COP _d	1.50	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	3.1	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2760	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.800	kWh				
Annual electricity consumption	AEC	1065	kWh				

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

Model(s):	Outdoor unit:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-**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	4.2	kW	Seasonal space heating energy efficiency	η_s	141	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.7	kW	T _j = - 7 °C	COP _d	3.25	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.5	kW	T _j = + 2 °C	COP _d	4.24	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.6	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = +12 °C	P _{dh}	1.9	kW	T _j = +12 °C	COP _d	8.26	-
Degradation co-efficient (**)	C _{dh}	0.93	-				
T _j = bivalent temperature	P _{dh}	4.0	kW	T _j = bivalent temperature	COP _d	2.27	-
T _j = operation limit temperature	P _{dh}	4.0	kW	T _j = operation limit temperature	COP _d	2.27	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-20	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	4.2	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2713	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.800	kWh				
Annual electricity consumption	AEC	1065	kWh				

Contact details

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	157	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.98	-
T _j = + 2 °C	P _{dh}	5.0	kW	T _j = + 7 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.81	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	1.98	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.66	-
T _j = +12 °C	P _{dh}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	1616	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	805	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	226	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.68	-
T _j = + 2 °C	P _{dh}	5.0	kW	T _j = + 7 °C	COP _d	4.92	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.92	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	3.68	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.66	-
T _j = +12 °C	P _{dh}	1.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.93	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	1111	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	805	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	129	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	2.04	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.29	-
T _j = + 2 °C	P _{dh}	2.7	kW	T _j = + 7 °C	COP _d	4.47	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	6.67	-
T _j = + 7 °C	P _{dh}	1.7	kW	T _j = bivalent temperature	COP _d	2.04	-
Degradation co-efficient (**)	C _{dh}	0.96	-	T _j = operation limit temperature	COP _d	1.75	-
T _j = +12 °C	P _{dh}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.94	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.4	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	3014	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	183	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	3.17	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	4.58	-
T _j = + 2 °C	P _{dh}	2.7	kW	T _j = + 7 °C	COP _d	6.55	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = +12 °C	COP _d	8.57	-
T _j = + 7 °C	P _{dh}	1.9	kW	T _j = bivalent temperature	COP _d	3.17	-
Degradation co-efficient (**)	C _{dh}	0.94	-	T _j = operation limit temperature	COP _d	1.75	-
T _j = +12 °C	P _{dh}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.92	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.4	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2113	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-**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	3.1	kW	Seasonal space heating energy efficiency	η_s	107	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.5	kW	T _j = - 7 °C	COP _d	2.36	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.5	kW	T _j = + 2 °C	COP _d	3.42	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.5	kW	T _j = + 7 °C	COP _d	4.41	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = +12 °C	P _{dh}	1.8	kW	T _j = +12 °C	COP _d	6.92	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = bivalent temperature	P _{dh}	2.5	kW	T _j = bivalent temperature	COP _d	1.93	-
T _j = operation limit temperature	P _{dh}	2.5	kW	T _j = operation limit temperature	COP _d	1.50	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	3.1	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2760	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	934	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-**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	4.2	kW	Seasonal space heating energy efficiency	η_s	141	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.7	kW	T _j = - 7 °C	COP _d	3.25	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.5	kW	T _j = + 2 °C	COP _d	4.24	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.6	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = +12 °C	P _{dh}	1.9	kW	T _j = +12 °C	COP _d	8.26	-
Degradation co-efficient (**)	C _{dh}	0.93	-				
T _j = bivalent temperature	P _{dh}	4.0	kW	T _j = bivalent temperature	COP _d	2.27	-
T _j = operation limit temperature	P _{dh}	4.0	kW	T _j = operation limit temperature	COP _d	2.27	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-20	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	4.2	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2713	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	934	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	157	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.98	-
T _j = + 2 °C	P _{dh}	5.0	kW	T _j = + 7 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.81	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	1.98	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.66	-
T _j = +12 °C	P _{dh}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	1616	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	154	%
Daily electricity consumption	Q _{elec}	3.200	kWh				
Annual electricity consumption	AEC	709	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	226	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	3.68	-
T _j = +2 °C	P _{dh}	5.0	kW	T _j = +7 °C	COP _d	4.92	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.92	-
T _j = +7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	3.68	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.66	-
T _j = +12 °C	P _{dh}	1.9	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.93	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	1111	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	154	%
Daily electricity consumption	Q _{elec}	3.200	kWh				
Annual electricity consumption	AEC	709	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	2.04	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	2.7	kW	T _j = + 2 °C	COP _d	3.29	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	1.7	kW	T _j = + 7 °C	COP _d	4.47	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = +12 °C	P _{dh}	1.8	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = bivalent temperature	P _{dh}	4.4	kW	T _j = bivalent temperature	COP _d	2.04	-
T _j = operation limit temperature	P _{dh}	3.5	kW	T _j = operation limit temperature	COP _d	1.75	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	3014	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	902	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	190	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	3.17	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.7	kW	T _j = + 2 °C	COP _d	4.58	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.9	kW	T _j = + 7 °C	COP _d	6.55	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = +12 °C	P _{dh}	1.8	kW	T _j = +12 °C	COP _d	8.57	-
Degradation co-efficient (**)	C _{dh}	0.92	-				
T _j = bivalent temperature	P _{dh}	4.4	kW	T _j = bivalent temperature	COP _d	3.17	-
T _j = operation limit temperature	P _{dh}	3.5	kW	T _j = operation limit temperature	COP _d	1.75	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2113	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	902	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-**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	3.1	kW	Seasonal space heating energy efficiency	η_s	111	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.5	kW	T _j = - 7 °C	COP _d	2.36	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.5	kW	T _j = + 2 °C	COP _d	3.42	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.5	kW	T _j = + 7 °C	COP _d	4.41	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = +12 °C	P _{dh}	1.8	kW	T _j = +12 °C	COP _d	6.92	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = bivalent temperature	P _{dh}	2.5	kW	T _j = bivalent temperature	COP _d	1.93	-
T _j = operation limit temperature	P _{dh}	2.5	kW	T _j = operation limit temperature	COP _d	1.50	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	3.1	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2760	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.800	kWh				
Annual electricity consumption	AEC	1065	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-**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	4.2	kW	Seasonal space heating energy efficiency	η_s	146	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.7	kW	T _j = - 7 °C	COP _d	3.25	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.5	kW	T _j = + 2 °C	COP _d	4.24	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.6	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = +12 °C	P _{dh}	1.9	kW	T _j = +12 °C	COP _d	8.26	-
Degradation co-efficient (**)	C _{dh}	0.93	-				
T _j = bivalent temperature	P _{dh}	4.0	kW	T _j = bivalent temperature	COP _d	2.27	-
T _j = operation limit temperature	P _{dh}	4.0	kW	T _j = operation limit temperature	COP _d	2.27	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-20	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	4.2	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2713	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.800	kW/h				
Annual electricity consumption	AEC	1065	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.

Model(s):	Outdoor unit:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	162	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.98	-
T _j = + 2 °C	P _{dh}	5.0	kW	T _j = + 7 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.81	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	1.98	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.66	-
T _j = +12 °C	P _{dh}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	1616	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kW/h				
Annual electricity consumption	AEC	805	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.

Model(s):	Outdoor unit:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	237	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.68	-
T _j = + 2 °C	P _{dh}	5.0	kW	T _j = + 7 °C	COP _d	4.92	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.92	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	3.68	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.66	-
T _j = +12 °C	P _{dh}	1.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.93	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dB(A)				
Annual energy consumption	Q _{HE}	1111	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	805	kWh				

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	2.04	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.29	-
T _j = + 2 °C	P _{dh}	2.7	kW	T _j = + 7 °C	COP _d	4.47	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	6.67	-
T _j = + 7 °C	P _{dh}	1.7	kW	T _j = bivalent temperature	COP _d	2.04	-
Degradation co-efficient (**)	C _{dh}	0.96	-	T _j = operation limit temperature	COP _d	1.75	-
T _j = +12 °C	P _{dh}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.94	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.4	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	3014	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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 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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	190	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	3.17	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	4.58	-
T _j = + 2 °C	P _{dh}	2.7	kW	T _j = + 7 °C	COP _d	6.55	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = +12 °C	COP _d	8.57	-
T _j = + 7 °C	P _{dh}	1.9	kW	T _j = bivalent temperature	COP _d	3.17	-
Degradation co-efficient (**)	C _{dh}	0.94	-	T _j = operation limit temperature	COP _d	1.75	-
T _j = +12 °C	P _{dh}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.92	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.4	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2113	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

Contact details

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-**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	3.1	kW	Seasonal space heating energy efficiency	η_s	111	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	2.5	kW	T _j = -7 °C	COP _d	2.36	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +2 °C	P _{dh}	2.5	kW	T _j = +2 °C	COP _d	3.42	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +7 °C	P _{dh}	1.5	kW	T _j = +7 °C	COP _d	4.41	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = +12 °C	P _{dh}	1.8	kW	T _j = +12 °C	COP _d	6.92	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = bivalent temperature	P _{dh}	2.5	kW	T _j = bivalent temperature	COP _d	1.93	-
T _j = operation limit temperature	P _{dh}	2.5	kW	T _j = operation limit temperature	COP _d	1.50	-
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	3.1	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2760	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	934	kWh				

Contact details

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-**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	4.2	kW	Seasonal space heating energy efficiency	η_s	146	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.7	kW	T _j = - 7 °C	COP _d	3.25	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	2.5	kW	T _j = + 2 °C	COP _d	4.24	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	1.6	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{dh}	0.94	-				
T _j = +12 °C	P _{dh}	1.9	kW	T _j = +12 °C	COP _d	8.26	-
Degradation co-efficient (**)	C _{dh}	0.93	-				
T _j = bivalent temperature	P _{dh}	4.0	kW	T _j = bivalent temperature	COP _d	2.27	-
T _j = operation limit temperature	P _{dh}	4.0	kW	T _j = operation limit temperature	COP _d	2.27	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-20	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	4.2	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	2713	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	934	kWh				

Contact details

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	162	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.98	-
T _j = + 2 °C	P _{dh}	5.0	kW	T _j = + 7 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.81	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	1.98	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.66	-
T _j = +12 °C	P _{dh}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	1616	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	154	%
Daily electricity consumption	Q _{elec}	3.200	kWh				
Annual electricity consumption	AEC	709	kWh				

Contact details

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	237	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.68	-
T _j = + 2 °C	P _{dh}	5.0	kW	T _j = + 7 °C	COP _d	4.92	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.92	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	3.68	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.66	-
T _j = +12 °C	P _{dh}	1.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.93	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	3.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

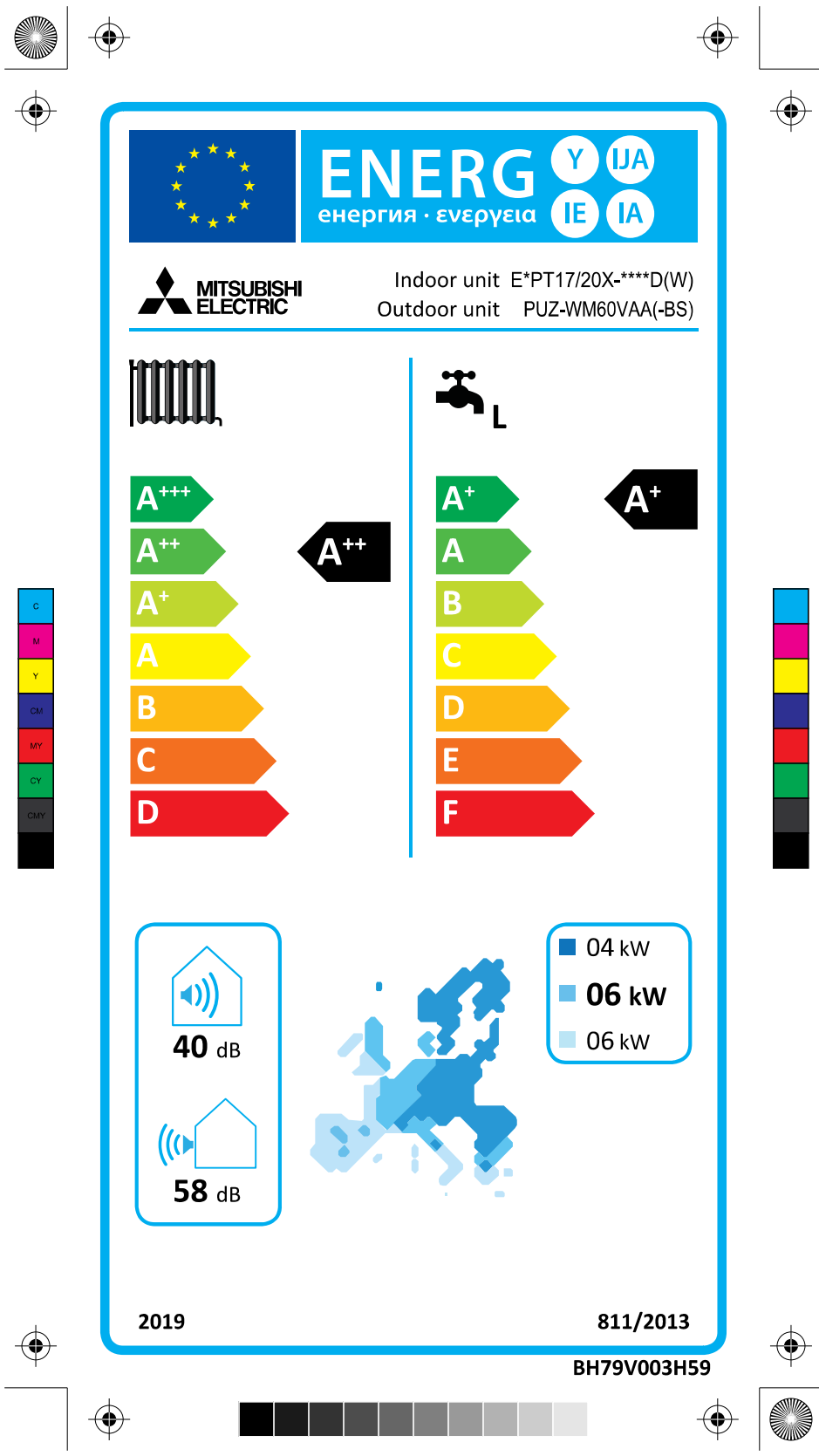
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/61	dBA				
Annual energy consumption	Q _{HE}	1111	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	154	%
Daily electricity consumption	Q _{elec}	3.200	kWh				
Annual electricity consumption	AEC	709	kWh				

Contact details

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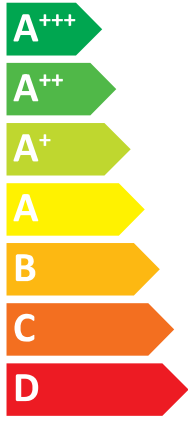
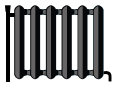
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



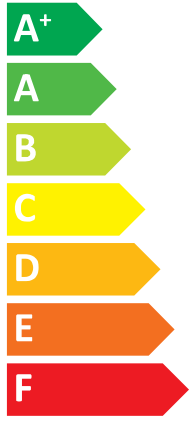
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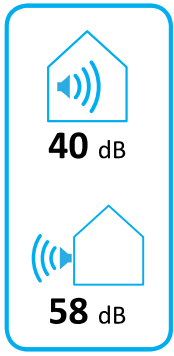
Indoor unit E*PT17/20X-****D(W)
Outdoor unit PUZ-WM60VAA(-BS)



A++



A+



2019

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BH79V003H59



Model(s):	Outdoor unit:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT17X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	142	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.3	kW	T _j = - 7 °C	COP _d	2.26	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.57	-
T _j = + 2 °C	P _{dh}	3.5	kW	T _j = + 7 °C	COP _d	5.07	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	6.81	-
T _j = + 7 °C	P _{dh}	3.6	kW	T _j = bivalent temperature	COP _d	2.26	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.76	-
T _j = +12 °C	P _{dh}	3.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3318	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	899	kWh				

Contact details

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT17X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	190	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.8	kW	T _j = - 7 °C	COP _d	3.39	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.82	-
T _j = + 2 °C	P _{dh}	4.1	kW	T _j = + 7 °C	COP _d	6.35	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.86	-
T _j = + 7 °C	P _{dh}	3.3	kW	T _j = bivalent temperature	COP _d	3.40	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.76	-
T _j = +12 °C	P _{dh}	3.1	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2475	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	899	kWh				

Contact details

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	127	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.5	kW	T _j = - 7 °C	COP _d	3.02	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.6	kW	T _j = + 2 °C	COP _d	3.83	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.5	kW	T _j = + 7 °C	COP _d	4.73	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.06	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	4.7	kW	T _j = bivalent temperature	COP _d	2.13	-
T _j = operation limit temperature	P _{dh}	4.7	kW	T _j = operation limit temperature	COP _d	1.67	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	5.0	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3671	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.900	kWh				
Annual electricity consumption	AEC	1073	kWh				

Contact details

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT17X-**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	4.4	kW	Seasonal space heating energy efficiency	η_s	166	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.0	kW	T _j = - 7 °C	COP _d	4.30	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	5.00	-
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.18	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	2.31	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.31	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.2	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	4.4	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2492	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.900	kW/h				
Annual electricity consumption	AEC	1073	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.

Model(s):	Outdoor unit:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT17X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	1.85	-
T _j = +2 °C	P _{dh}	6.0	kW	T _j = +7 °C	COP _d	3.22	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.76	-
T _j = +7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	1.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	6.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1991	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT17X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	218	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	3.64	-
T _j = +2 °C	P _{dh}	6.0	kW	T _j = +7 °C	COP _d	4.76	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.50	-
T _j = +7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	3.64	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	6.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1397	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT20X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	142	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.3	kW	T _j = - 7 °C	COP _d	2.26	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.57	-
T _j = + 2 °C	P _{dh}	3.5	kW	T _j = + 7 °C	COP _d	5.07	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	6.81	-
T _j = + 7 °C	P _{dh}	3.6	kW	T _j = bivalent temperature	COP _d	2.26	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.76	-
T _j = +12 °C	P _{dh}	3.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dB(A)				
Annual energy consumption	Q _{HE}	3318	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	145	%
Daily electricity consumption	Q _{elec}	3.400	kWh				
Annual electricity consumption	AEC	749	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT20X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	190	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.8	kW	T _j = - 7 °C	COP _d	3.39	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	4.1	kW	T _j = + 2 °C	COP _d	4.82	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.3	kW	T _j = + 7 °C	COP _d	6.35	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	3.1	kW	T _j = +12 °C	COP _d	8.86	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = bivalent temperature	P _{dh}	5.3	kW	T _j = bivalent temperature	COP _d	3.40	-
T _j = operation limit temperature	P _{dh}	4.9	kW	T _j = operation limit temperature	COP _d	1.76	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	0.8	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2475	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	145	%
Daily electricity consumption	Q _{elec}	3.400	kWh				
Annual electricity consumption	AEC	749	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	127	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.5	kW	T _j = - 7 °C	COP _d	3.02	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.6	kW	T _j = + 2 °C	COP _d	3.83	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.5	kW	T _j = + 7 °C	COP _d	4.73	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.06	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	4.7	kW	T _j = bivalent temperature	COP _d	2.13	-
T _j = operation limit temperature	P _{dh}	4.7	kW	T _j = operation limit temperature	COP _d	1.67	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	5.0	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3671	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	927	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT20X-**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	4.4	kW	Seasonal space heating energy efficiency	η_s	166	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.0	kW	T _j = - 7 °C	COP _d	4.30	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	5.00	-
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.18	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	2.31	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.31	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.2	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	4.4	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2492	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	927	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT20X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.85	-
T _j = + 2 °C	P _{dh}	6.0	kW	T _j = + 7 °C	COP _d	3.22	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.76	-
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	1.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	6.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1991	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	679	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	EHPT20X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	218	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.64	-
T _j = + 2 °C	P _{dh}	6.0	kW	T _j = + 7 °C	COP _d	4.76	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.50	-
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	3.64	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	6.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1397	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	679	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT17X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	145	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.3	kW	T _j = - 7 °C	COP _d	2.26	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.57	-
T _j = + 2 °C	P _{dh}	3.5	kW	T _j = + 7 °C	COP _d	5.07	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	6.81	-
T _j = + 7 °C	P _{dh}	3.6	kW	T _j = bivalent temperature	COP _d	2.26	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.76	-
T _j = +12 °C	P _{dh}	3.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3318	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	899	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT17X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	197	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	5.8	kW	T _j = -7 °C	COP _d	3.39	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +2 °C	COP _d	4.82	-
T _j = +2 °C	P _{dh}	4.1	kW	T _j = +7 °C	COP _d	6.35	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.86	-
T _j = +7 °C	P _{dh}	3.3	kW	T _j = bivalent temperature	COP _d	3.40	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.76	-
T _j = +12 °C	P _{dh}	3.1	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2475	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	899	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT17X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.5	kW	T _j = - 7 °C	COP _d	3.02	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	3.83	-
T _j = + 2 °C	P _{dh}	3.6	kW	T _j = + 7 °C	COP _d	4.73	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.06	-
T _j = + 7 °C	P _{dh}	3.5	kW	T _j = bivalent temperature	COP _d	2.13	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.7	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.7	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	5.0	kW
Bivalent temperature	T _{biv}	-15	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3671	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.900	kWh				
Annual electricity consumption	AEC	1073	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT17X-**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	4.4	kW	Seasonal space heating energy efficiency	η_s	173	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.0	kW	T _j = - 7 °C	COP _d	4.30	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	5.00	-
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.18	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	2.31	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.31	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.2	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	4.4	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dB(A)				
Annual energy consumption	Q _{HE}	2492	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.900	kWh				
Annual electricity consumption	AEC	1073	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT17X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	158	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	1.85	-
T _j = +2 °C	P _{dh}	6.0	kW	T _j = +7 °C	COP _d	3.22	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.76	-
T _j = +7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	1.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	6.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1991	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT17X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	226	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	3.64	-
T _j = +2 °C	P _{dh}	6.0	kW	T _j = +7 °C	COP _d	4.76	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.50	-
T _j = +7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	3.64	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	6.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1397	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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 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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT20X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	145	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.3	kW	T _j = - 7 °C	COP _d	2.26	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.57	-
T _j = + 2 °C	P _{dh}	3.5	kW	T _j = + 7 °C	COP _d	5.07	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	6.81	-
T _j = + 7 °C	P _{dh}	3.6	kW	T _j = bivalent temperature	COP _d	2.26	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.76	-
T _j = +12 °C	P _{dh}	3.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3318	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	145	%
Daily electricity consumption	Q _{elec}	3.400	kWh				
Annual electricity consumption	AEC	749	kWh				

Contact details

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT20X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	197	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.8	kW	T _j = - 7 °C	COP _d	3.39	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.82	-
T _j = + 2 °C	P _{dh}	4.1	kW	T _j = + 7 °C	COP _d	6.35	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.86	-
T _j = + 7 °C	P _{dh}	3.3	kW	T _j = bivalent temperature	COP _d	3.40	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	1.76	-
T _j = +12 °C	P _{dh}	3.1	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.8	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2475	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	145	%
Daily electricity consumption	Q _{elec}	3.400	kWh				
Annual electricity consumption	AEC	749	kWh				

Contact details

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT20X-**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	5.0	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.5	kW	T _j = - 7 °C	COP _d	3.02	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.6	kW	T _j = + 2 °C	COP _d	3.83	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.5	kW	T _j = + 7 °C	COP _d	4.73	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.06	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	4.7	kW	T _j = bivalent temperature	COP _d	2.13	-
T _j = operation limit temperature	P _{dh}	4.7	kW	T _j = operation limit temperature	COP _d	1.67	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	5.0	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3671	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	927	kWh				

Contact details

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT20X-**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	4.4	kW	Seasonal space heating energy efficiency	η_s	173	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.0	kW	T _j = - 7 °C	COP _d	4.30	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	5.00	-
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.18	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	2.31	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.31	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.2	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	4.4	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2492	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kW/h				
Annual electricity consumption	AEC	927	kW/h				

Contact details

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT20X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	158	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.85	-
T _j = + 2 °C	P _{dh}	6.0	kW	T _j = + 7 °C	COP _d	3.22	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.76	-
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	1.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	6.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1991	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	679	kWh				

Contact details

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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:	PUZ-WM60VAA(-BS)
	Indoor unit:	ERPT20X-**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	6.0	kW	Seasonal space heating energy efficiency	η_s	226	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	3.64	-
T _j = +2 °C	P _{dh}	6.0	kW	T _j = +7 °C	COP _d	4.76	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.50	-
T _j = +7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	3.64	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.67	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	6.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.9	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dB(A)				
Annual energy consumption	Q _{HE}	1397	kWh				

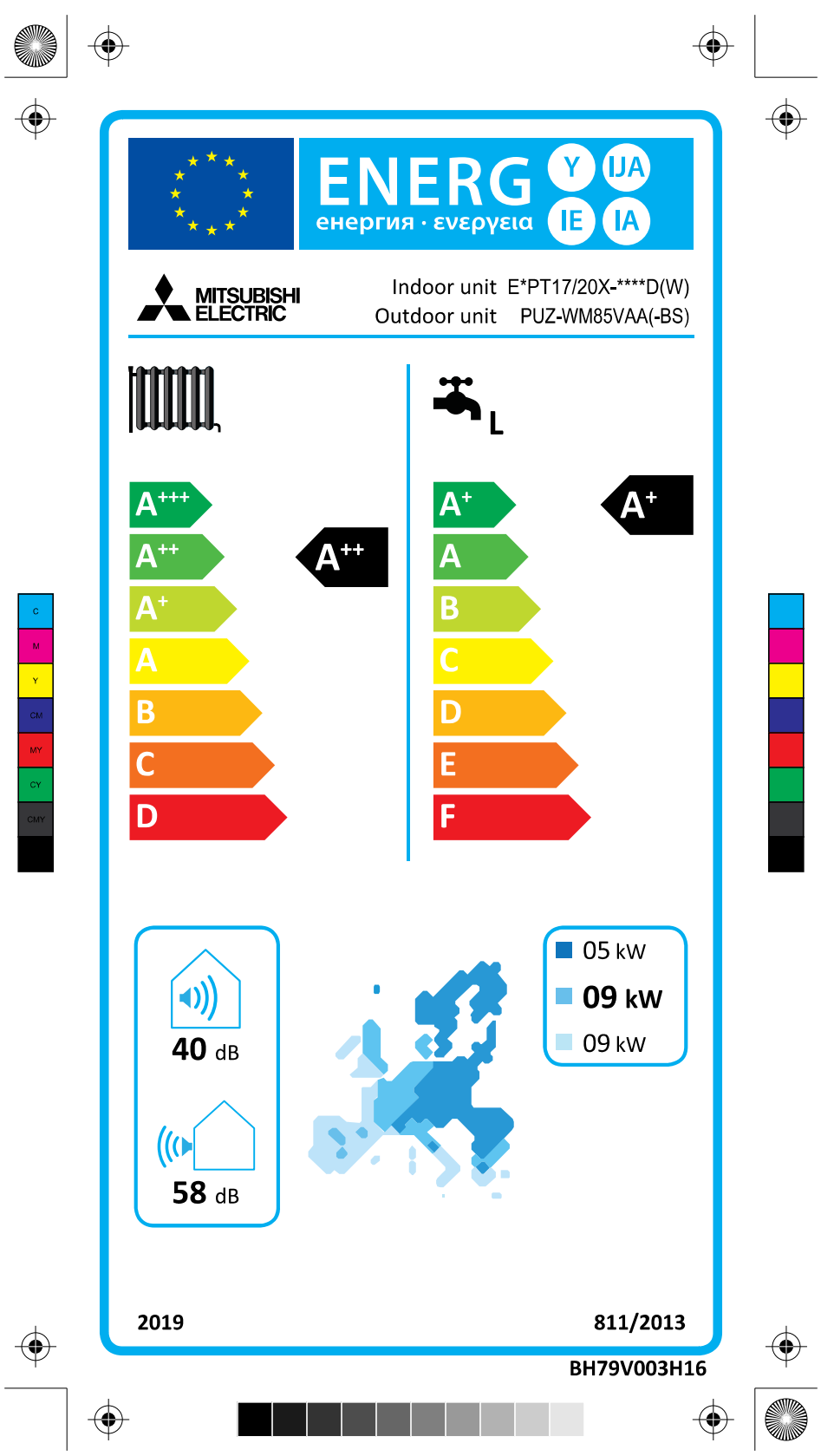
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	679	kWh				

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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).

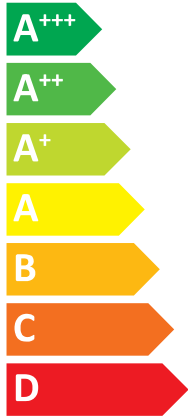
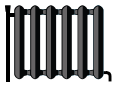
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



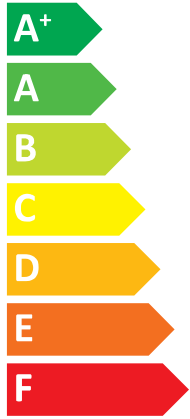
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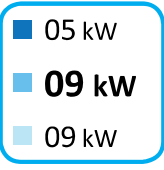
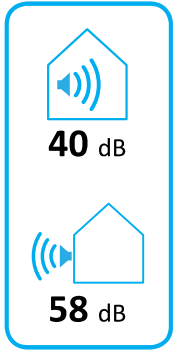
Indoor unit E*PT17/20X-****D(W)
Outdoor unit PUZ-WM85VAA(-BS)



A++



A+



2019

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BH79V003H16



Engheta	Dashin	Fransha	Italiana	Esperanto
1	Outer unit	Blank	Blank	Blank
2	Inner unit	Blank	Blank	Blank
3	Medium temperature radiation	Blank	Blank	Blank
4	High temperature radiation	Blank	Blank	Blank
5	Low temperature radiation	Blank	Blank	Blank
6	High temperature radiation	Blank	Blank	Blank
7	Low temperature radiation	Blank	Blank	Blank
8	High temperature radiation	Blank	Blank	Blank
9	Low temperature radiation	Blank	Blank	Blank
10	High temperature radiation	Blank	Blank	Blank
11	Low temperature radiation	Blank	Blank	Blank
12	High temperature radiation	Blank	Blank	Blank
13	Low temperature radiation	Blank	Blank	Blank
14	High temperature radiation	Blank	Blank	Blank
15	Low temperature radiation	Blank	Blank	Blank
16	High temperature radiation	Blank	Blank	Blank
17	Low temperature radiation	Blank	Blank	Blank
18	High temperature radiation	Blank	Blank	Blank
19	Low temperature radiation	Blank	Blank	Blank
20	High temperature radiation	Blank	Blank	Blank
21	Low temperature radiation	Blank	Blank	Blank
22	High temperature radiation	Blank	Blank	Blank
23	Low temperature radiation	Blank	Blank	Blank
24	High temperature radiation	Blank	Blank	Blank

Model(s):	Outdoor unit:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT17X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	139	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.5	kW	T _j = - 7 °C	COP _d	2.07	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.46	-
T _j = + 2 °C	P _{dh}	4.6	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.08	-
T _j = + 7 °C	P _{dh}	3.7	kW	T _j = bivalent temperature	COP _d	2.07	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.80	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	1.3	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dB(A)				
Annual energy consumption	Q _{HE}	4837	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	899	kWh				

Contact details

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT17X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	193	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.5	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.79	-
T _j = + 2 °C	P _{dh}	4.6	kW	T _j = + 7 °C	COP _d	6.81	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	9.14	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.96	-	T _j = operation limit temperature	COP _d	1.80	-
T _j = +12 °C	P _{dh}	3.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	1.3	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3473	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	899	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT17X-**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	6.1	kW	Seasonal space heating energy efficiency	η_s	129	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.9	kW	T _j = - 7 °C	COP _d	2.98	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.6	kW	T _j = + 2 °C	COP _d	3.96	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.6	kW	T _j = + 7 °C	COP _d	4.80	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.06	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	5.0	kW	T _j = bivalent temperature	COP _d	2.11	-
T _j = operation limit temperature	P _{dh}	5.0	kW	T _j = operation limit temperature	COP _d	1.71	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	6.1	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	4376	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.900	kWh				
Annual electricity consumption	AEC	1073	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT17X-**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	4.9	kW	Seasonal space heating energy efficiency	η_s	169	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	4.4	kW	T _j = -7 °C	COP _d	4.31	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +2 °C	COP _d	5.13	-
T _j = +2 °C	P _{dh}	3.9	kW	T _j = +7 °C	COP _d	5.76	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.18	-
T _j = +7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	2.29	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.29	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.6	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.6	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	4.9	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2733	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.900	kWh				
Annual electricity consumption	AEC	1073	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT17X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	156	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.88	-
T _j = + 2 °C	P _{dh}	8.5	kW	T _j = + 7 °C	COP _d	3.22	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.76	-
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = bivalent temperature	COP _d	1.88	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = operation limit temperature	COP _d	1.71	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2799	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT17X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	227	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.66	-
T _j = + 2 °C	P _{dh}	8.5	kW	T _j = + 7 °C	COP _d	4.91	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.66	-
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = bivalent temperature	COP _d	3.66	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.71	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1916	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT20X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	139	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.5	kW	T _j = - 7 °C	COP _d	2.07	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.46	-
T _j = + 2 °C	P _{dh}	4.6	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.08	-
T _j = + 7 °C	P _{dh}	3.7	kW	T _j = bivalent temperature	COP _d	2.07	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.80	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	1.3	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dB(A)				
Annual energy consumption	Q _{HE}	4837	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	145	%
Daily electricity consumption	Q _{elec}	3.400	kWh				
Annual electricity consumption	AEC	749	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT20X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	193	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.5	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.79	-
T _j = + 2 °C	P _{dh}	4.6	kW	T _j = + 7 °C	COP _d	6.81	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	9.14	-
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = bivalent temperature	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.96	-	T _j = operation limit temperature	COP _d	1.80	-
T _j = +12 °C	P _{dh}	3.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	1.3	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3473	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	145	%
Daily electricity consumption	Q _{elec}	3.400	kWh				
Annual electricity consumption	AEC	749	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT20X-**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	6.1	kW	Seasonal space heating energy efficiency	η_s	129	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.9	kW	T _j = - 7 °C	COP _d	2.98	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.6	kW	T _j = + 2 °C	COP _d	3.96	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.6	kW	T _j = + 7 °C	COP _d	4.80	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.06	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	5.0	kW	T _j = bivalent temperature	COP _d	2.11	-
T _j = operation limit temperature	P _{dh}	5.0	kW	T _j = operation limit temperature	COP _d	1.71	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	6.1	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	4376	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	927	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT20X-**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	4.9	kW	Seasonal space heating energy efficiency	η_s	169	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	4.31	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	5.13	-
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.76	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.18	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	2.29	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.29	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.6	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.6	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	4.9	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2733	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	927	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT20X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	156	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.88	-
T _j = + 2 °C	P _{dh}	8.5	kW	T _j = + 7 °C	COP _d	3.22	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.76	-
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = bivalent temperature	COP _d	1.88	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = operation limit temperature	COP _d	1.71	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2799	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	679	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	EHPT20X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	227	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	3.66	-
T _j = +2 °C	P _{dh}	8.5	kW	T _j = +7 °C	COP _d	4.91	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.66	-
T _j = +7 °C	P _{dh}	5.5	kW	T _j = bivalent temperature	COP _d	3.66	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.71	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dB(A)				
Annual energy consumption	Q _{HE}	1916	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	679	kWh				

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

Model(s):	Outdoor unit:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT17X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	141	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.5	kW	T _j = - 7 °C	COP _d	2.07	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.46	-
T _j = + 2 °C	P _{dh}	4.6	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.08	-
T _j = + 7 °C	P _{dh}	3.7	kW	T _j = bivalent temperature	COP _d	2.07	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.80	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	1.3	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	4837	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	899	kWh				

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

Model(s):	Outdoor unit:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT17X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	197	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.5	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	4.6	kW	T _j = + 2 °C	COP _d	4.79	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = + 7 °C	COP _d	6.81	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = +12 °C	P _{dh}	3.2	kW	T _j = +12 °C	COP _d	9.14	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = bivalent temperature	P _{dh}	7.5	kW	T _j = bivalent temperature	COP _d	3.10	-
T _j = operation limit temperature	P _{dh}	6.1	kW	T _j = operation limit temperature	COP _d	1.80	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3473	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kWh				
Annual electricity consumption	AEC	899	kWh				

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

Model(s):	Outdoor unit:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT17X-**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	6.1	kW	Seasonal space heating energy efficiency	η_s	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.9	kW	T _j = - 7 °C	COP _d	2.98	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.6	kW	T _j = + 2 °C	COP _d	3.96	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.6	kW	T _j = + 7 °C	COP _d	4.80	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.06	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	5.0	kW	T _j = bivalent temperature	COP _d	2.11	-
T _j = operation limit temperature	P _{dh}	5.0	kW	T _j = operation limit temperature	COP _d	1.71	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	6.1	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	4376	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.900	kWh				
Annual electricity consumption	AEC	1073	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT17X-**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	4.9	kW	Seasonal space heating energy efficiency	η_s	175	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	4.31	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	5.13	-
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.76	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.18	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	2.29	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.29	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.6	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.6	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	4.9	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2733	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	101	%
Daily electricity consumption	Q _{elec}	4.900	kWh				
Annual electricity consumption	AEC	1073	kWh				

Contact details

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT17X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	159	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	1.88	-
T _j = + 2 °C	P _{dh}	8.5	kW	T _j = + 7 °C	COP _d	3.22	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.76	-
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = bivalent temperature	COP _d	1.88	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = operation limit temperature	COP _d	1.71	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2799	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT17X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	234	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.66	-
T _j = + 2 °C	P _{dh}	8.5	kW	T _j = + 7 °C	COP _d	4.91	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.66	-
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = bivalent temperature	COP _d	3.66	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.71	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1916	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.700	kWh				
Annual electricity consumption	AEC	803	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT20X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	141	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.5	kW	T _j = - 7 °C	COP _d	2.07	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.46	-
T _j = + 2 °C	P _{dh}	4.6	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.08	-
T _j = + 7 °C	P _{dh}	3.7	kW	T _j = bivalent temperature	COP _d	2.07	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.80	-
T _j = +12 °C	P _{dh}	3.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	7.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	1.3	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	4837	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	145	%
Daily electricity consumption	Q _{elec}	3.400	kWh				
Annual electricity consumption	AEC	749	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT20X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	197	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	7.5	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	4.6	kW	T _j = + 2 °C	COP _d	4.79	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.2	kW	T _j = + 7 °C	COP _d	6.81	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = +12 °C	P _{dh}	3.2	kW	T _j = +12 °C	COP _d	9.14	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = bivalent temperature	P _{dh}	7.5	kW	T _j = bivalent temperature	COP _d	3.10	-
T _j = operation limit temperature	P _{dh}	6.1	kW	T _j = operation limit temperature	COP _d	1.80	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	3473	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	145	%
Daily electricity consumption	Q _{elec}	3.400	kWh				
Annual electricity consumption	AEC	749	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT20X-**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	6.1	kW	Seasonal space heating energy efficiency	η_s	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.9	kW	T _j = - 7 °C	COP _d	2.98	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	3.96	-
T _j = + 2 °C	P _{dh}	3.6	kW	T _j = + 7 °C	COP _d	4.80	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.06	-
T _j = + 7 °C	P _{dh}	3.6	kW	T _j = bivalent temperature	COP _d	2.11	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.71	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	5.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	5.0	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	6.1	kW
Bivalent temperature	T _{biv}	-15	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	4376	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	927	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT20X-**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	4.9	kW	Seasonal space heating energy efficiency	η_s	175	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.4	kW	T _j = - 7 °C	COP _d	4.31	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = + 2 °C	COP _d	5.13	-
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.76	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.18	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	2.29	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.29	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	4.6	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	4.6	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	4.9	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dB(A)				
Annual energy consumption	Q _{HE}	2733	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	116	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	927	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT20X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	159	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	8.5	kW	T _j = + 2 °C	COP _d	1.88	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = + 7 °C	COP _d	3.22	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = +12 °C	P _{dh}	3.4	kW	T _j = +12 °C	COP _d	5.76	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	8.5	kW	T _j = bivalent temperature	COP _d	1.88	-
T _j = operation limit temperature	P _{dh}	6.1	kW	T _j = operation limit temperature	COP _d	1.71	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	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	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	2799	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	679	kWh				

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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:	PUZ-WM85VAA(-BS)
	Indoor unit:	ERPT20X-**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	8.5	kW	Seasonal space heating energy efficiency	η_s	234	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.66	-
T _j = + 2 °C	P _{dh}	8.5	kW	T _j = + 7 °C	COP _d	4.91	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.66	-
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = bivalent temperature	COP _d	3.66	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.71	-
T _j = +12 °C	P _{dh}	3.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	6.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/58	dBA				
Annual energy consumption	Q _{HE}	1916	kWh				

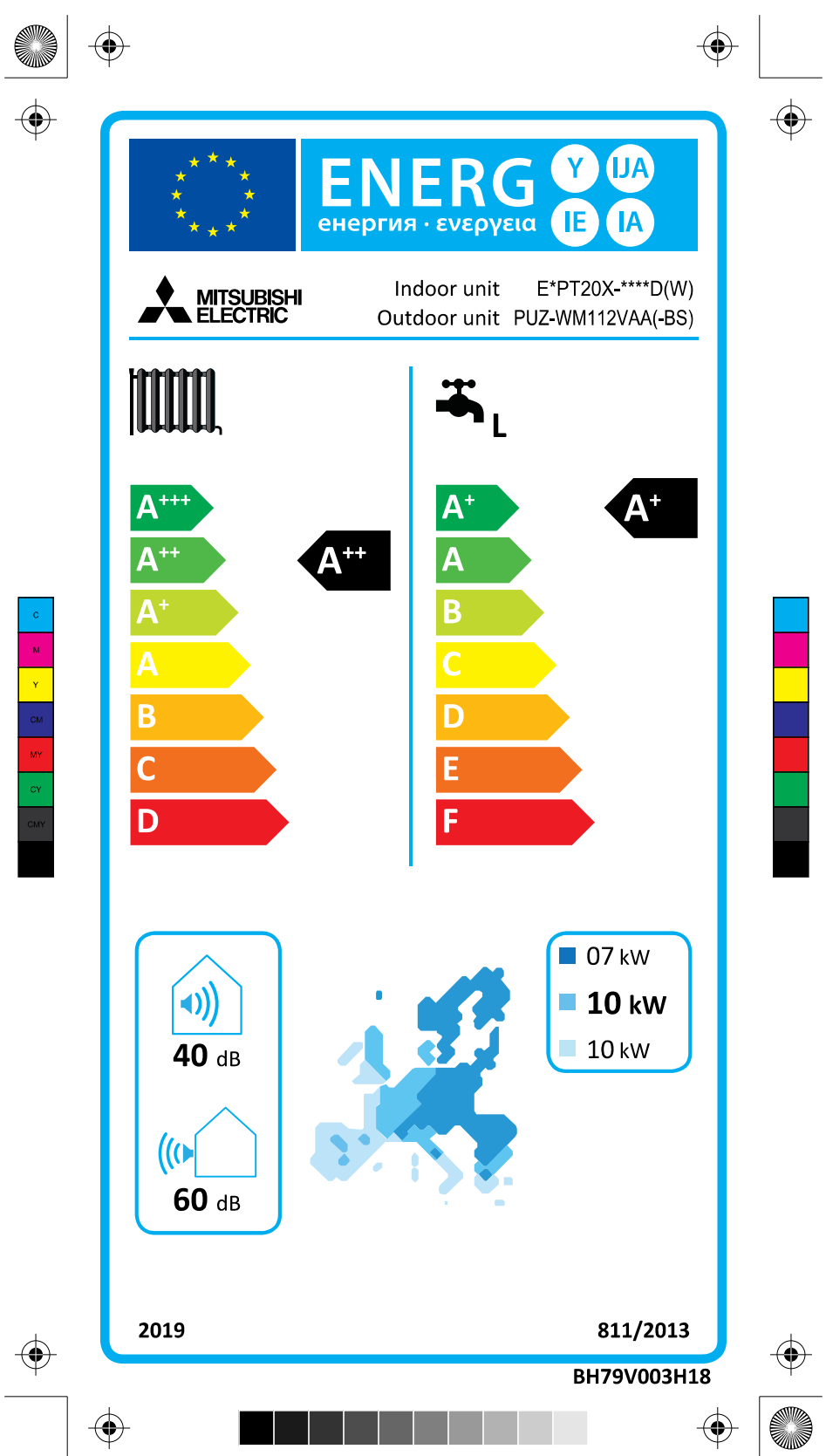
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	679	kWh				

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

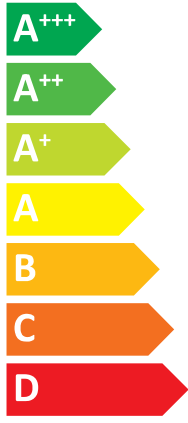
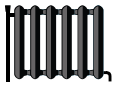
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.



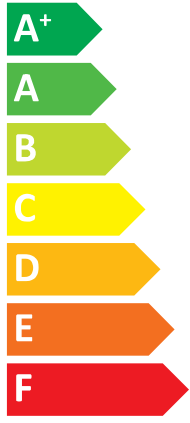
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Indoor unit E*PT20X-****D(W)
Outdoor unit PUZ-WM112VAA(-BS)



A++



A+



40 dB
60 dB



- 07 kW
- 10 kW
- 10 kW

2019

811/2013

BH79V003H18



Engheta	Danish	Francia	Hispano	Eslovakia
1	Outer unit	Blauk	Blauk	Blauk
2	Inner unit	Blauk	Blauk	Blauk
3	Medium temperature radiation	Blauk	Blauk	Blauk
4	High temperature radiation	Blauk	Blauk	Blauk
5	Low temperature radiation	Blauk	Blauk	Blauk
6	Medium temperature radiation	Blauk	Blauk	Blauk
7	High temperature radiation	Blauk	Blauk	Blauk
8	Low temperature radiation	Blauk	Blauk	Blauk
9	Medium temperature radiation	Blauk	Blauk	Blauk
10	High temperature radiation	Blauk	Blauk	Blauk
11	Low temperature radiation	Blauk	Blauk	Blauk
12	Medium temperature radiation	Blauk	Blauk	Blauk
13	High temperature radiation	Blauk	Blauk	Blauk
14	Low temperature radiation	Blauk	Blauk	Blauk
15	Medium temperature radiation	Blauk	Blauk	Blauk
16	High temperature radiation	Blauk	Blauk	Blauk
17	Low temperature radiation	Blauk	Blauk	Blauk
18	Medium temperature radiation	Blauk	Blauk	Blauk
19	High temperature radiation	Blauk	Blauk	Blauk
20	Low temperature radiation	Blauk	Blauk	Blauk
21	Medium temperature radiation	Blauk	Blauk	Blauk
22	High temperature radiation	Blauk	Blauk	Blauk
23	Low temperature radiation	Blauk	Blauk	Blauk
24	Medium temperature radiation	Blauk	Blauk	Blauk

Model(s):	Outdoor unit:	PUZ-WM112VAA(-BS)
	Indoor unit:	EHPT20X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	134	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.8	kW	T _j = - 7 °C	COP _d	2.21	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.30	-
T _j = + 2 °C	P _{dh}	5.4	kW	T _j = + 7 °C	COP _d	4.60	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.35	-
T _j = + 7 °C	P _{dh}	5.2	kW	T _j = bivalent temperature	COP _d	2.21	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.60	-
T _j = +12 °C	P _{dh}	4.7	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.98	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.8	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	8.7	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	1.2	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	5905	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	148	%
Daily electricity consumption	Q _{elec}	3.300	kWh				
Annual electricity consumption	AEC	736	kWh				

Contact details

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	EHPT20X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	191	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.8	kW	T _j = - 7 °C	COP _d	3.31	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	5.7	kW	T _j = + 2 °C	COP _d	4.56	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	4.9	kW	T _j = + 7 °C	COP _d	6.81	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.6	kW	T _j = +12 °C	COP _d	9.20	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	8.9	kW	T _j = bivalent temperature	COP _d	3.32	-
T _j = operation limit temperature	P _{dh}	8.7	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	1.1	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	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	4145	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	148	%
Daily electricity consumption	Q _{elec}	3.300	kWh				
Annual electricity consumption	AEC	736	kWh				

Contact details

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	EHPT20X-**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	9.2	kW	Seasonal space heating energy efficiency	η_s	122	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.8	kW	T _j = - 7 °C	COP _d	2.86	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	5.4	kW	T _j = + 2 °C	COP _d	3.58	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	4.69	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.6	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	7.5	kW	T _j = bivalent temperature	COP _d	1.92	-
T _j = operation limit temperature	P _{dh}	7.5	kW	T _j = operation limit temperature	COP _d	1.52	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.21	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	9.2	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	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	6990	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	118	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	917	kWh				

Contact details

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	EHPT20X-**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	9.9	kW	Seasonal space heating energy efficiency	η_s	166	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	6.5	kW	T _j = - 7 °C	COP _d	4.25	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.73	-
T _j = + 2 °C	P _{dh}	5.8	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.46	-
T _j = + 7 °C	P _{dh}	4.0	kW	T _j = bivalent temperature	COP _d	2.52	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.52	-
T _j = +12 °C	P _{dh}	4.7	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	3.31	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	9.4	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	9.4	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.8	kW	Rated heat output (*)	P _{sup}	9.9	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	5528	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	118	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	917	kWh				

Contact details

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	EHPT20X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	152	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	10.0	kW	T _j = + 2 °C	COP _d	1.81	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	6.4	kW	T _j = + 7 °C	COP _d	3.09	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	5.64	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = bivalent temperature	P _{dh}	10.0	kW	T _j = bivalent temperature	COP _d	1.81	-
T _j = operation limit temperature	P _{dh}	8.7	kW	T _j = operation limit temperature	COP _d	1.53	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	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	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	3401	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	674	kWh				

Contact details

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	EHPT20X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	215	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	3.30	-
T _j = +2 °C	P _{dh}	10.0	kW	T _j = +7 °C	COP _d	4.73	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.12	-
T _j = +7 °C	P _{dh}	6.4	kW	T _j = bivalent temperature	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.53	-
T _j = +12 °C	P _{dh}	4.7	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	10.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	8.7	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	2394	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	674	kWh				

Contact details

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	ERPT20X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.8	kW	T _j = - 7 °C	COP _d	2.21	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.30	-
T _j = + 2 °C	P _{dh}	5.4	kW	T _j = + 7 °C	COP _d	4.60	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.35	-
T _j = + 7 °C	P _{dh}	5.2	kW	T _j = bivalent temperature	COP _d	2.21	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.60	-
T _j = +12 °C	P _{dh}	4.7	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.98	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	8.8	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	8.7	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	1.2	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dB(A)				
Annual energy consumption	Q _{HE}	5905	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	148	%
Daily electricity consumption	Q _{elec}	3.300	kWh				
Annual electricity consumption	AEC	736	kWh				

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	ERPT20X-**D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	195	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.8	kW	T _j = - 7 °C	COP _d	3.31	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	5.7	kW	T _j = + 2 °C	COP _d	4.56	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	4.9	kW	T _j = + 7 °C	COP _d	6.81	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.6	kW	T _j = +12 °C	COP _d	9.20	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	8.9	kW	T _j = bivalent temperature	COP _d	3.32	-
T _j = operation limit temperature	P _{dh}	8.7	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	1.1	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	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	4145	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	148	%
Daily electricity consumption	Q _{elec}	3.300	kWh				
Annual electricity consumption	AEC	736	kWh				

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	ERPT20X-**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	9.2	kW	Seasonal space heating energy efficiency	η_s	124	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	5.8	kW	T _j = - 7 °C	COP _d	2.86	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	5.4	kW	T _j = + 2 °C	COP _d	3.58	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	4.69	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.6	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	7.5	kW	T _j = bivalent temperature	COP _d	1.92	-
T _j = operation limit temperature	P _{dh}	7.5	kW	T _j = operation limit temperature	COP _d	1.52	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.21	-
Bivalent temperature	T _{biv}	-15	°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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	9.2	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	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	6990	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	118	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	917	kWh				

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	ERPT20X-**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	9.9	kW	Seasonal space heating energy efficiency	η_s	169	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	6.5	kW	T _j = - 7 °C	COP _d	4.25	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.73	-
T _j = + 2 °C	P _{dh}	5.8	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.46	-
T _j = + 7 °C	P _{dh}	4.0	kW	T _j = bivalent temperature	COP _d	2.52	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature	COP _d	2.52	-
T _j = +12 °C	P _{dh}	4.7	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	3.31	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	9.4	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	9.4	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.8	kW	Rated heat output (*)	P _{sup}	9.9	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	5528	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	118	%
Daily electricity consumption	Q _{elec}	4.200	kWh				
Annual electricity consumption	AEC	917	kWh				

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

Model(s):	Outdoor unit:	PUZ-WM112VAA(-BS)
	Indoor unit:	ERPT20X-**D
Air-to-water heat pump:	yes	
Water-to-water heat pump:	no	
Brine-to-water heat pump:	no	
Low-temperature heat pump:	no	
Equipped with a supplementary heater:	yes	
Heat pump combination heater:	yes	
Parameters for	medium-temperature application.	
Parameters for	warmer climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = -7 °C	P _{dh}	-	kW	T _j = -7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = +2 °C	COP _d	1.81	-
T _j = +2 °C	P _{dh}	10.0	kW	T _j = +7 °C	COP _d	3.09	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	5.64	-
T _j = +7 °C	P _{dh}	6.4	kW	T _j = bivalent temperature	COP _d	1.81	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = operation limit temperature	COP _d	1.53	-
T _j = +12 °C	P _{dh}	4.4	kW	T _j = -15 °C (if TOL < -20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.98	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	10.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	8.7	kW	Supplementary heater			
T _j = -15 °C (if TOL < -20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	3401	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	674	kWh				

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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:	PUZ-WM112VAA(-BS)
	Indoor unit:	ERPT20X-**D
Air-to-water heat pump:	yes	
Water-to-water heat pump:	no	
Brine-to-water heat pump:	no	
Low-temperature heat pump:	no	
Equipped with a supplementary heater:	yes	
Heat pump combination heater:	yes	
Parameters for	low-temperature application.	
Parameters for	warmer climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	220	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.30	-
T _j = + 2 °C	P _{dh}	10.0	kW	T _j = + 7 °C	COP _d	4.73	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.12	-
T _j = + 7 °C	P _{dh}	6.4	kW	T _j = bivalent temperature	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature	COP _d	1.53	-
T _j = +12 °C	P _{dh}	4.7	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{dh}	10.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature	P _{dh}	8.7	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	3170	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40/60	dBA				
Annual energy consumption	Q _{HE}	2394	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	161	%
Daily electricity consumption	Q _{elec}	3.100	kWh				
Annual electricity consumption	AEC	674	kWh				

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