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Indoor unit E*PT17/20X-****D(W)
Outdoor unit PUZ-WM85YAA(-BS)



A++



A+



40 dB

58 dB



- 05 kW
- 09 kW
- 09 kW

2019

811/2013

BH79V003H17



Mitsubishi Electric ERP Directive Related Product Information: erp.mitsubishielectric.eu/erp

		For medium-temperature application.												For low-temperature application.																															
Outdoor unit	Indoor unit	Medium-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions kW	For space heating, annual energy consumption under average climate conditions kWh	For water heating, annual electricity consumption under average climate conditions kWh	Seasonal space heating energy efficiency under average climate conditions %	Water heating energy efficiency under average climate conditions %	Sound power level L _{WA} indoor dB	Work only during off-peak hours	Rated heat output under colder climate conditions kW	Rated heat output under warmer climate conditions kW	For space heating, annual energy consumption under colder climate conditions kWh	For space heating, annual energy consumption under warmer climate conditions kWh	For water heating, annual energy consumption under colder climate conditions kWh	For water heating, annual energy consumption under warmer climate conditions kWh	Seasonal space heating energy efficiency under colder climate conditions %	Seasonal space heating energy efficiency under warmer climate conditions %	Water heating energy efficiency under colder climate conditions %	Water heating energy efficiency under warmer climate conditions %	Sound power level L _{WA} outdoor dB	Low-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions kW	For space heating, annual energy consumption under average climate conditions kWh	For water heating, annual electricity consumption under average climate conditions kWh	Seasonal space heating energy efficiency under average climate conditions %	Water heating energy efficiency under average climate conditions %	Sound power level L _{WA} indoor dB	Work only during off-peak hours	Rated heat output under colder climate conditions kW	Rated heat output under warmer climate conditions kW	For space heating, annual energy consumption under colder climate conditions kWh	For space heating, annual energy consumption under warmer climate conditions kWh	For water heating, annual energy consumption under colder climate conditions kWh	For water heating, annual energy consumption under warmer climate conditions kWh	Seasonal space heating energy efficiency under colder climate conditions %	Seasonal space heating energy efficiency under warmer climate conditions %	Water heating energy efficiency under colder climate conditions %	Water heating energy efficiency under warmer climate conditions %	Sound power level L _{WA} outdoor dB		
																																												1	2
PUZ-WM650V(AA)-(BS)	EHPT17X-****D	Medium-temperature application	A++	A+	5.0	3014	902	129	120	120	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61	
		Seasonal space heating energy efficiency class	A++	A+	5.0	3014	902	129	120	120	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61	
		Water heating energy efficiency class	A+	A+	5.0	3014	902	129	120	120	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61	
		Rated heat output under average climate conditions	5.0	5.0	3014	902	129	120	120	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
		For space heating, annual energy consumption under average climate conditions	3014	3014	902	129	120	120	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
		For water heating, annual electricity consumption under average climate conditions	902	902	129	120	120	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
		Seasonal space heating energy efficiency under average climate conditions	129	120	120	120	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
		Water heating energy efficiency under average climate conditions	120	120	120	120	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
		Sound power level L _{WA} indoor	40	40	40	40	40	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
		Work only during off-peak hours	-	-	-	-	-	-	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
		Rated heat output under colder climate conditions	3.1	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
		Rated heat output under warmer climate conditions	5.0	5.0	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61
For space heating, annual energy consumption under colder climate conditions	2760	1616	1065	805	107	157	101	135	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		
For space heating, annual energy consumption under warmer climate conditions	1616	1065	805	107	157	101	135	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		
For water heating, annual energy consumption under colder climate conditions	1065	805	107	157	101	135	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		
For water heating, annual energy consumption under warmer climate conditions	805	107	157	101	135	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		
Seasonal space heating energy efficiency under colder climate conditions	107	157	101	135	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		
Seasonal space heating energy efficiency under warmer climate conditions	157	101	135	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		
Water heating energy efficiency under colder climate conditions	135	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		
Water heating energy efficiency under warmer climate conditions	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		
Sound power level L _{WA} outdoor	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	A+++	A+	5.0	2113	902	183	120	120	40	4.2	5.0	2713	1111	1065	805	141	226	101	135	61		

Model(s):	Outdoor unit:	PUZ-WM85YAA(-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	138	%
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	P _{dh}	4.6	kW	T _j = + 2 °C	COP _d	3.46	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.7	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.4	kW	T _j = +12 °C	COP _d	7.08	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.5	kW	T _j = bivalent temperature	COP _d	2.07	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

Contact details

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

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

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

Model(s):	Outdoor unit:	PUZ-WM85YAA(-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	190	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	7.5	kW	Tj = - 7 °C	COPd	3.10	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.6	kW	Tj = + 2 °C	COPd	4.79	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	6.81	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = +12 °C	Pdh	3.2	kW	Tj = +12 °C	COPd	9.14	-
Degradation co-efficient (**)	Cdh	0.95	-				
Tj = bivalent temperature	Pdh	7.5	kW	Tj = bivalent temperature	COPd	3.10	-
Tj = operation limit temperature	Pdh	6.1	kW	Tj = operation limit temperature	COPd	1.80	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-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}	0.022	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	128	%
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}	0.022	kW	Rated heat output (*)	P _{sup}	6.1	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			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-WM85YAA(-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	166	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	4.4	kW	Tj = - 7 °C	COPd	4.31	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 2 °C	Pdh	3.9	kW	Tj = + 2 °C	COPd	5.13	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	5.76	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	3.6	kW	Tj = +12 °C	COPd	8.18	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	4.6	kW	Tj = bivalent temperature	COPd	2.29	-
Tj = operation limit temperature	Pdh	4.6	kW	Tj = operation limit temperature	COPd	2.29	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-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}	0.022	kW	Rated heat output (*)	P _{sup}	4.9	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	155	%
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}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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-WM85YAA(-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	224	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.5	kW	Tj = + 2 °C	COPd	3.66	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.5	kW	Tj = + 7 °C	COPd	4.91	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.6	kW	Tj = +12 °C	COPd	7.66	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	8.5	kW	Tj = bivalent temperature	COPd	3.66	-
Tj = operation limit temperature	Pdh	6.1	kW	Tj = operation limit temperature	COPd	1.71	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	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}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	138	%
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	P _{dh}	4.6	kW	T _j = + 2 °C	COP _d	3.46	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.7	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.4	kW	T _j = +12 °C	COP _d	7.08	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.5	kW	T _j = bivalent temperature	COP _d	2.07	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	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}	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}	0.022	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	145	%	
Daily electricity consumption	Q _{elec}	3.400	kW/h				
Annual electricity consumption	AEC	749	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-WM85YAA(-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	128	%
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}	0.022	kW	Rated heat output (*)	P _{sup}	6.1	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	116	%	
Daily electricity consumption	Q _{elec}	4.200	kW/h				
Annual electricity consumption	AEC	927	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-WM85YAA(-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	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}	4.4	kW	T _j = - 7 °C	COP _d	4.31	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 2 °C	COP _d	5.13	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	5.76	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	8.18	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	4.6	kW	T _j = bivalent temperature	COP _d	2.29	-
T _j = operation limit temperature	P _{dh}	4.6	kW	T _j = operation limit temperature	COP _d	2.29	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	4.9	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	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	kW/h				
Annual electricity consumption	AEC	927	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-WM85YAA(-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	155	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	8.5	kW	Tj = + 2 °C	COPd	1.88	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.5	kW	Tj = + 7 °C	COPd	3.22	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	3.4	kW	Tj = +12 °C	COPd	5.76	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.5	kW	Tj = bivalent temperature	COPd	1.88	-
Tj = operation limit temperature	Pdh	6.1	kW	Tj = operation limit temperature	COPd	1.71	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	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}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	224	%
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	3.66	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = + 7 °C	COP _d	4.91	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.66	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	8.5	kW	T _j = bivalent temperature	COP _d	3.66	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	P _{dh}	4.6	kW	T _j = + 2 °C	COP _d	3.46	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.7	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.4	kW	T _j = +12 °C	COP _d	7.08	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.5	kW	T _j = bivalent temperature	COP _d	2.07	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	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:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	120	%	
Daily electricity consumption	Q _{elec}	4.100	kW/h				
Annual electricity consumption	AEC	899	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-WM85YAA(-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}	0.022	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	120	%	
Daily electricity consumption	Q _{elec}	4.100	kW/h				
Annual electricity consumption	AEC	899	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-WM85YAA(-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}	0.022	kW	Rated heat output (*)	P _{sup}	6.1	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			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-WM85YAA(-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	P _{dh}	3.9	kW	T _j = + 2 °C	COP _d	5.13	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	5.76	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	8.18	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	4.6	kW	T _j = bivalent temperature	COP _d	2.29	-
T _j = operation limit temperature	P _{dh}	4.6	kW	T _j = operation limit temperature	COP _d	2.29	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	4.9	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	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:				Water heating energy efficiency			
Declared load profile	L			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-WM85YAA(-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	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}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.700	kW/h				
Annual electricity consumption	AEC	803	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-WM85YAA(-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	P _{dh}	8.5	kW	T _j = + 2 °C	COP _d	3.66	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = + 7 °C	COP _d	4.91	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.66	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	8.5	kW	T _j = bivalent temperature	COP _d	3.66	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	P _{dh}	4.6	kW	T _j = + 2 °C	COP _d	3.46	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.7	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.4	kW	T _j = +12 °C	COP _d	7.08	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.5	kW	T _j = bivalent temperature	COP _d	2.07	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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}	0.022	kW	Rated heat output (*)	P _{sup}	1.3	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	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}	0.022	kW	Rated heat output (*)	P _{sup}	6.1	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			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-WM85YAA(-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	P _{dh}	3.9	kW	T _j = + 2 °C	COP _d	5.13	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	5.76	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	8.18	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	4.6	kW	T _j = bivalent temperature	COP _d	2.29	-
T _j = operation limit temperature	P _{dh}	4.6	kW	T _j = operation limit temperature	COP _d	2.29	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	4.9	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	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:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	116	%	
Daily electricity consumption	Q _{elec}	4.200	kW/h				
Annual electricity consumption	AEC	927	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-WM85YAA(-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}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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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-WM85YAA(-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	P _{dh}	8.5	kW	T _j = + 2 °C	COP _d	3.66	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	5.5	kW	T _j = + 7 °C	COP _d	4.91	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	7.66	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	8.5	kW	T _j = bivalent temperature	COP _d	3.66	-
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}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

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

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

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