PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-****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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	8.8	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.4	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 °C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = +12 °C	Pdh	4.7	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	8.8	kW
Tj = operation limit temperature (***)	Pdh	8.8	kW
Bivalent temperature	Tbiv	-7	°C
Reference design conditions for space heating	Tdesignh	-10	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	6063	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	6.561	kWh
Annual electricity consumption	AEC	1443	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	133	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	2.21	-
Tj = + 2 °C	COPd	3.27	-
Tj = + 7 °C	COPd	4.61	-
Tj = +12 °C	COPd	6.35	-
Tj = bivalent temperature	COPd	2.21	-
Tj = operation limit temperature (***)	COPd	2.11	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	1.2	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	120	%

Contact details

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

The identification and signature of the person empowered to bind the supplier:

Atsushi EDAYOSHI
Manager, Quality Assuarance Department
UNITED KINGDOM

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

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

This information is based on EU regulation No 811/2013 and No 813/2013.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-****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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	8.8	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.7	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 °C	Pdh	4.9	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 °C	Pdh	4.6	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	8.8	kW
Tj = operation limit temperature (***)	Pdh	8.8	kW
Bivalent temperature	Tbiv	-7	°C
Reference design conditions for space heating	Tdesignh	-10	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	4293	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	6.561	kWh
Annual electricity consumption	AEC	1443	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	189	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	3.31	-
Tj = + 2 °C	COPd	4.55	-
Tj = + 7 °C	COPd	6.68	-
Tj = +12 °C	COPd	9.10	-
Tj = bivalent temperature	COPd	3.31	-
Tj = operation limit temperature (***)	COPd	3.03	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	1.2	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	120	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-****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
Rated heat output (*)	Prated	9.2	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	5.8	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.4	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 °C	Pdh	3.8	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 °C	Pdh	4.6	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	7.5	kW
Tj = operation limit temperature (***)	Pdh	7.5	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	7.5	kW
Bivalent temperature	Tbiv	-15	°C
Reference design conditions for space heating	Tdesignh	-22	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	7293	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	8.216	kWh
Annual electricity consumption	AEC	1808	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	121	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	2.86	-
Tj = + 2 °C	COPd	3.46	-
Tj = + 7 °C	COPd	4.69	-
Tj = +12 °C	COPd	6.67	-
Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	COPd	1.65	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.92	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	1.7	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	96	%

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

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-****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
Rated heat output (*)	Prated	9.9	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	6.5	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.8	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 °C	Pdh	4.0	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 °C	Pdh	4.7	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	9.4	kW
Tj = operation limit temperature (***)	Pdh	9.4	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	8.3	kW
Bivalent temperature	Tbiv	-20	°C
Reference design conditions for space heating	Tdesignh	-22	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	5805	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	8.216	kWh
Annual electricity consumption	AEC	1808	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	165	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	4.05	-
Tj = + 2 °C	COPd	4.40	-
Tj = + 7 °C	COPd	5.60	-
Tj = +12 °C	COPd	7.46	-
Tj = bivalent temperature	COPd	2.52	-
Tj = operation limit temperature (***)	COPd	2.53	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	3.19	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	0.5	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	96	%

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

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-****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	ηs	150	%
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 Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	10.0	kW	Tj = + 2 °C	COPd	1.81	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	6.4	kW	Tj = + 7 °C	COPd	3.15	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	5.67	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.0	kW	Tj = bivalent temperature	COPd	1.81	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	1.81	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P_{SB}	0.022	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}	3483	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	5.883	kWh				
Annual electricity consumption	AEC	1294	kWh				

Contact details

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-****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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 °C	Pdh	10.0	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 °C	Pdh	6.4	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = +12 °C	Pdh	4.7	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	10.0	kW
Tj = operation limit temperature (***)	Pdh	10.0	kW
Bivalent temperature	Tbiv	2	°C
Reference design conditions for space heating	Tdesignh	2	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	2471	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	5.883	kWh
Annual electricity consumption	AEC	1294	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	213	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	-	-
Tj = + 2 °C	COPd	3.30	-
Tj = + 7 °C	COPd	4.85	-
Tj = +12 °C	COPd	7.22	-
Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	COPd	3.30	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	135	%

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

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

This information is based on EU regulation No 811/2013 and No 813/2013.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	8.8	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.4	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 °C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = +12 °C	Pdh	4.7	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	8.8	kW
Tj = operation limit temperature (***)	Pdh	8.8	kW
Bivalent temperature	Tbiv	-7	°C
Reference design conditions for space heating	Tdesignh	-10	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	6063	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	6.561	kWh
Annual electricity consumption	AEC	1443	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	133	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	2.21	-
Tj = + 2 °C	COPd	3.27	-
Tj = + 7 °C	COPd	4.61	-
Tj = +12 °C	COPd	6.35	-
Tj = bivalent temperature	COPd	2.21	-
Tj = operation limit temperature (***)	COPd	2.11	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	1.2	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	120	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	8.8	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.7	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 °C	Pdh	4.9	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 °C	Pdh	4.6	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	8.8	kW
Tj = operation limit temperature (***)	Pdh	8.8	kW
Bivalent temperature	Tbiv	-7	°C
Reference design conditions for space heating	Tdesignh	-10	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	4293	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	6.561	kWh
Annual electricity consumption	AEC	1443	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	189	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	3.31	-
Tj = + 2 °C	COPd	4.55	-
Tj = + 7 °C	COPd	6.68	-
Tj = +12 °C	COPd	9.10	-
Tj = bivalent temperature	COPd	3.31	-
Tj = operation limit temperature (***)	COPd	3.03	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	1.2	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	120	%

Contact details

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

The identification and signature of the person empowered to bind the supplier;

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

Atsushi EDAYOSHI
Manager, Quality Assuarance Department
UNITED KINGDOM

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

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

This information is based on EU regulation No 811/2013 and No 813/2013.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.2	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	5.8	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.4	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 °C	Pdh	3.8	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 °C	Pdh	4.6	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	7.5	kW
Tj = operation limit temperature (***)	Pdh	7.5	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	7.5	kW
Bivalent temperature	Tbiv	-15	°C
Reference design conditions for space heating	Tdesignh	-22	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	7293	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	8.216	kWh
Annual electricity consumption	AEC	1808	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	121	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	2.86	-
Tj = + 2 °C	COPd	3.46	-
Tj = + 7 °C	COPd	4.69	-
Tj = +12 °C	COPd	6.67	-
Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	COPd	1.65	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.92	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	1.7	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	96	%

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Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.9	kW	Seasonal space heating energy efficiency	ηs	165	%
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 Tj			
Tj = - 7 °C	Pdh	6.5	kW	Tj = - 7 °C	COPd	4.05	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	5.8	kW	Tj = + 2 °C	COPd	4.40	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	5.60	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.46	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	9.4	kW	Tj = bivalent temperature	COPd	2.52	-
Tj = operation limit temperature (***)	Pdh	9.4	kW	Tj = operation limit temperature (***)	COPd	2.53	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	8.3	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	3.19	-
Bivalent temperature	Tbiv	-20	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.5	kW
Thermostat-off mode	P_{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P_{SB}	0.022	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}	5805	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	ηwh	96	%
Daily electricity consumption	Qelec	8.216	kWh				
Annual electricity consumption	AEC	1808	kWh				

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Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 °C	Pdh	10.0	kW
Degradation co-efficient (**)	Cdh	1.00	-
Tj = + 7 °C	Pdh	6.4	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 °C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	10.0	kW
Tj = operation limit temperature (***)	Pdh	10.0	kW
Bivalent temperature	Tbiv	2	°C
Reference design conditions for space heating	Tdesignh	2	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	3483	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	5.883	kWh
Annual electricity consumption	AEC	1294	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	150	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	-	-
Tj = + 2 °C	COPd	1.81	-
Tj = + 7 °C	COPd	3.15	-
Tj = +12 °C	COPd	5.67	-
Tj = bivalent temperature	COPd	1.81	-
Tj = operation limit temperature (***)	COPd	1.81	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	135	%

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	EHPT30X-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 °C	Pdh	10.0	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 °C	Pdh	6.4	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = +12 °C	Pdh	4.7	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	10.0	kW
Tj = operation limit temperature (***)	Pdh	10.0	kW
Bivalent temperature	Tbiv	2	°C
Reference design conditions for space heating	Tdesignh	2	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	2471	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	5.883	kWh
Annual electricity consumption	AEC	1294	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	213	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	-	-
Tj = + 2 °C	COPd	3.30	-
Tj = + 7 °C	COPd	4.85	-
Tj = +12 °C	COPd	7.22	-
Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	COPd	3.30	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	135	%

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-****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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	8.8	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.4	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 7 °C	Pdh	5.2	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = +12 °C	Pdh	4.7	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	8.8	kW
Tj = operation limit temperature (***)	Pdh	8.8	kW
Bivalent temperature	Tbiv	-7	°C
Reference design conditions for space heating	Tdesignh	-10	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	5936	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	6.561	kWh
Annual electricity consumption	AEC	1443	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	136	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	2.21	-
Tj = + 2 °C	COPd	3.32	-
Tj = + 7 °C	COPd	4.61	-
Tj = +12 °C	COPd	6.35	-
Tj = bivalent temperature	COPd	2.21	-
Tj = operation limit temperature (***)	COPd	2.11	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	1.2	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	120	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-****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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	8.8	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.7	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 °C	Pdh	4.9	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 °C	Pdh	4.6	kW
Degradation co-efficient (**)	Cdh	0.96	-
Tj = bivalent temperature	Pdh	8.8	kW
Tj = operation limit temperature (***)	Pdh	8.8	kW
Bivalent temperature	Tbiv	-7	°C
Reference design conditions for space heating	Tdesignh	-10	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	4171	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	6.561	kWh
Annual electricity consumption	AEC	1443	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	195	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	3.31	-
Tj = + 2 °C	COPd	4.64	-
Tj = + 7 °C	COPd	6.68	-
Tj = +12 °C	COPd	9.10	-
Tj = bivalent temperature	COPd	3.31	-
Tj = operation limit temperature (***)	COPd	3.03	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	1.2	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	120	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-****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	ηs	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 Tj			
Tj = - 7 °C	Pdh	5.8	kW	Tj = - 7 °C	COPd	2.86	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	5.4	kW	Tj = + 2 °C	COPd	3.58	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	3.8	kW	Tj = + 7 °C	COPd	4.69	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.6	kW	Tj = +12 °C	COPd	6.67	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.5	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	7.5	kW	Tj = operation limit temperature (***)	COPd	1.65	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	7.5	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.92	-
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	1.7	kW
Thermostat-off mode	P_{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P_{SB}	0.022	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}	7147	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	ηwh	96	%
Daily electricity consumption	Qelec	8.216	kWh				
Annual electricity consumption	AEC	1808	kWh				

Contact details

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

The identification and signature of the person empowered to bind the supplier;

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

Atsushi EDAYOSHI
Manager, Quality Assuarance Department
UNITED KINGDOM

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

· Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

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

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Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-****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
Rated heat output (*)	Prated	9.9	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	6.5	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = + 2 °C	Pdh	5.8	kW
Degradation co-efficient (**)	Cdh	0.98	-
Tj = + 7 °C	Pdh	4.0	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = +12 °C	Pdh	4.7	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	9.4	kW
Tj = operation limit temperature (***)	Pdh	9.4	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	8.3	kW
Bivalent temperature	Tbiv	-20	°C
Reference design conditions for space heating	Tdesignh	-22	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	40 / 60	dBA
Annual energy consumption	Q_{HE}	5666	kWh
For heat pump combination heater:			
Declared load profile		XL	
Daily electricity consumption	Qelec	8.216	kWh
Annual electricity consumption	AEC	1808	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	169	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	4.10	-
Tj = + 2 °C	COPd	4.53	-
Tj = + 7 °C	COPd	5.60	-
Tj = +12 °C	COPd	7.46	-
Tj = bivalent temperature	COPd	2.52	-
Tj = operation limit temperature (***)	COPd	2.53	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	3.19	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	0.5	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	96	%

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-WM112YAA(-BS)
	Indoor unit:	ERPT30X-****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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T j			
Tj = - 7 °C	Pdh	-	kW
Degradation co-efficient (**)	Cdh	-	-
Tj = + 2 °C	Pdh	10.0	kW
Degradation co-efficient (**)	Cdh	1.00	-
Tj = + 7 °C	Pdh	6.4	kW
Degradation co-efficient (**)	Cdh	0.99	-
Tj = +12 °C	Pdh	4.4	kW
Degradation co-efficient (**)	Cdh	0.97	-
Tj = bivalent temperature	Pdh	10.0	kW
Tj = operation limit temperature (***)	Pdh	10.0	kW
Bivalent temperature	Tbiv	2	°C
Reference design conditions for space heating	Tdesignh	2	°C
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0.022	kW
Thermostat-off mode	P_{TO}	0.022	kW
Standby mode	P_{SB}	0.022	kW
Crankcase heater mode	P_{CK}	0.000	kW
Other items			
Capacity control		variable	
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		XL	
Daily electricity consumption	Qelec	5.883	kWh
Annual electricity consumption	AEC	1294	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	154	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	COPd	-	-
Tj = + 2 °C	COPd	1.81	-
Tj = + 7 °C	COPd	3.12	-
Tj = +12 °C	COPd	5.67	-
Tj = bivalent temperature	COPd	1.81	-
Tj = operation limit temperature (***)	COPd	1.81	-
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (*)	Psup	0.0	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors	-	3170	m^3/h
Water heating energy efficiency	ηwh	135	%

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	Indoor unit:	ERPT30X-****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	ηs	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 Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	10.0	kW	Tj = + 2 °C	COPd	3.30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	6.4	kW	Tj = + 7 °C	COPd	4.78	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.7	kW	Tj = +12 °C	COPd	7.20	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	10.0	kW	Tj = bivalent temperature	COPd	3.30	-
Tj = operation limit temperature (***)	Pdh	10.0	kW	Tj = operation limit temperature (***)	COPd	3.30	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P_{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P_{SB}	0.022	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}	2392	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	ηwh	135	%
Daily electricity consumption	Qelec	5.883	kWh				
Annual electricity consumption	AEC	1294	kWh				

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