Model(s):		Outdoor unit		PUNZ-SNVVOUTAA(-DS)			
		Indoor unit:		EHSC-***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:				no			
Parameters for				medium-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηѕ	132	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	8.0	kW	Tj = - 7 °C	COPd	2.13	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.9	kW	Tj = + 2 °C	COPd	3.27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.4	kW	Tj = + 7 °C	COPd	4.64	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	5.3	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.13	-
Tj = operation limit temperature (***)	Pdh	7.9	kW	Tj = operation limit temperature (***)	COPd	2.05	-
			ı				
Bivalent temperature	Tbiv	-7	°c	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.1	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		•					
Capacity control		variable		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q_{HE}	5527	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details		,					
MITSURISHI ELECTRIC AIR CONITIC	MING SVSTE	M ELIDODE	LTD	Nottlohill Poad, Houston Industrial Estato Liv	ingoton EU	E4 EEO Soot	land IIIV

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

Atsushi EDAYOSHI Manager, Quality Assuarance Department

- · Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
- · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
- (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating
- Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
- (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
- (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-***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:				no			
Parameters for				low-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	167	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	8.5	kW	Tj = - 7 °C	COPd	3.15	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 2 °C	COPd	4.02	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.62	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	5.6	kW	Tj = +12 °C	COPd	7.53	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.5	kW	Tj = bivalent temperature	COPd	3.15	-
Tj = operation limit temperature (***)	Pdh	8.4	kW	Tj = operation limit temperature (***)	COPd	2.91	-
			J				
Bivalent temperature	Tbiv	-7	_ ℃	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode	•		Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.2	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q_{HE}	4659	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person	n empowere	a to bind the	e supplier;				

Atsushi EDAYOSHI

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

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

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-***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:				no			
Parameters for				medium-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	111	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdoo	or temperatur	re Tj	_
Tj = - 7 °C	Pdh	5.4	kW	Tj = - 7 °C	COPd	2.56	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.3	kW	Tj = + 2 °C	COPd	3.00	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = + 7 °C	Pdh	3.5	kW	Tj = + 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.97	-				_
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	6.23	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	7.6	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	7.6	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	7.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.11	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	tive mode	•	•	Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.5	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q_{HE}	7751	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				•
Annual electricity consumption	AEC	-	kWh				
Contact details		•					
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The identification and signature of the person	n empowere	d to bind the	e supplier;				

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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-***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:				no			
Parameters for				low-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	146	%
Declared capacity for heating for part load a	t indoor	'		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	5.8	kW	Tj = - 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-				ı
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.98	-				ı
Tj = + 7 °C	Pdh	3.7	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.97	-				ı
Tj = +12 °C	Pdh	4.3	kW	Tj = +12 °C	COPd	6.96	-
Degradation co-efficient (**)	Cdh	0.96	-				ı
Tj = bivalent temperature	Pdh	8.1	kW	Tj = bivalent temperature	COPd	3.26	-
Tj = operation limit temperature (***)	Pdh	7.8	kW	Tj = operation limit temperature (***)	COPd	2.35	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	7.8	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	3.31	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode	•	•	Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.8	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				•
Annual energy consumption	Q_{HE}	6340	kWh				
For heat pump combination heater:		•					
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh			_	.
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	a to bind the	e sunnlier				

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

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

^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

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

The identification and signature of the person	n empowere	d to bind the	supplier;	Atsushi EDAYOSHI			
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Contact details							
Annual electricity consumption	AEC	-	kWh				
Daily electricity consumption	Qelec	-	kWh				•
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
For heat pump combination heater:							
Annual energy consumption	Q_{HE}	3044	kWh				
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				•
Capacity control		variable		Rated air flow rate, outdoors	-	2700	m³/h
Other items		•	-		-		
Crankcase heater mode	P _{CK}	0.000	kW				
Standby mode	P_SB	0.022	kW	Type of energy input		Electrical	
Thermostat-off mode	P_{TO}	0.022	kW				
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Power consumption in modes other than act	ive mode	•		Supplementary heater		•	
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Tj = operation limit temperature (***)	Pdh	9.0	kW	Tj = operation limit temperature (***)	COPd	2.25	-
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	2.25	-
Degradation co-efficient (**)	Cdh	0.97	-				1
Tj = +12 °C	Pdh	4.0	kW	Tj = +12 °C	COPd	5.27	-
Degradation co-efficient (**)	Cdh	0.99	-				1
Tj = + 7 °C	Pdh	5.8	kW	Tj = + 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	1.00	-				1
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 2 °C	COPd	2.25	-
Degradation co-efficient (**)	Cdh	-	-				1
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
temperature 20 °C and outdoor temperature	Гј		1	part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	1
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	155	%
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Parameters for				warmer climate conditions.			
Parameters for				medium-temperature application.			
Heat pump combination heater:				no			
Equipped with a supplementary heater:				yes			
Low-temperature heat pump:				no			
Brine-to-water heat pump:				no			
Water-to-water heat pump:				no			
Air-to-water heat pump:				yes			
		Indoor unit:		EHSC-***D			
Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			

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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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-***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:				no			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	213	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 2 °C	COPd	3.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.8	kW	Tj = + 7 °C	COPd	5.25	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	6.61	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	3.85	-
Tj = operation limit temperature (***)	Pdh	9.0	kW	Tj = operation limit temperature (***)	COPd	3.85	-
-			1				
Bivalent temperature Reference design conditions for space	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 59	dBA				
Annual energy consumption	Q_{HE}	2224	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the perso	n empowere	a to bind the	e supplier;	Atsushi EDAYOSHI			

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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

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

Model(s):		Outdoor unit	t:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-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:				no			
Parameters for				medium-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	132	%
Declared capacity for heating for part load	at indoor	'	•	Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	8.0	kW	Tj = - 7 °C	COPd	2.13	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.9	kW	Tj = + 2 °C	COPd	3.27	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.4	kW	Tj = + 7 °C	COPd	4.64	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	5.3	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.13	-
Tj = operation limit temperature (***)	Pdh	7.9	kW	Tj = operation limit temperature (***)	COPd	2.05	-
			•				
Bivalent temperature	Tbiv	-7	_ ℃	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive mode	•		Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.1	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		•					
Capacity control		variable		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q_{HE}	5527	kWh				
For heat pump combination heater:		•					
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details		•	•				
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	M FUROPE	LTD	Nettlehill Road, Houston Industrial Estate, Liv	vinaston FH	54 5EQ Scot	land U.K

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

Atsushi EDAYOSHI

Manager, Quality Assuarance Department

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[·] 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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-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:				no			
Parameters for				low-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	167	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoor	or temperatui	re Tj	
Tj = - 7 °C	Pdh	8.5	kW	Tj = - 7 °C	COPd	3.15	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 2 °C	COPd	4.02	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.62	-
Degradation co-efficient (**)	Cdh	0.98	-				1
Tj = +12 °C	Pdh	5.6	kW	Tj = +12 °C	COPd	7.53	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.5	kW	Tj = bivalent temperature	COPd	3.15	-
Tj = operation limit temperature (***)	Pdh	8.4	kW	Tj = operation limit temperature (***)	COPd	2.91	-
			-				•
Bivalent temperature	Tbiv	-7] ∘c	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.2	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 59	dBA				
Annual energy consumption	Q_{HE}	4659	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITION				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the persor	ı empowere	u to bind the	e supplier;				

Atsushi EDAYOSHI

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

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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-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:				no			
Parameters for				medium-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	111	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	5.4	kW	Tj = - 7 °C	COPd	2.56	_
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.3	kW	Tj = + 2 °C	COPd	3.00	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.5	kW	Tj = + 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	6.23	-
Degradation co-efficient (**)	Cdh	0.97	-				l
Tj = bivalent temperature	Pdh	7.6	kW	Tj = bivalent temperature	COPd	2.05	_
Tj = operation limit temperature (***)	Pdh	7.6	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	7.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.11	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ive mode	•		Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.5	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				•
Annual energy consumption	Q_{HE}	7751	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITION				Nettlehill Road, Houston Industrial Estate, Liv	/ingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the persor	n empowered	a to bind the	e supplier;				

Atsushi EDAYOSHI

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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-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:				no			
Parameters for				low-temperature application.			
Parameters for				colder climate conditions.			
ltem	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	146	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	5.8	kW	Tj = - 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.7	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.3	kW	Tj = +12 °C	COPd	6.96	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	8.1	kW	Tj = bivalent temperature	COPd	3.26	-
Tj = operation limit temperature (***)	Pdh	7.8	kW	Tj = operation limit temperature (***)	COPd	2.35	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	7.8	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	3.31	-
Bivalent temperature	Tbiv	-16	°c	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	1.8	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q_{HE}	6340	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scot	land, U.K.
T							

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

Atsushi EDAYOSHI

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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-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:				no			
Parameters for				medium-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηѕ	155	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	_
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 2 °C	COPd	2.25	-
Degradation co-efficient (**)	Cdh	1.00	-				•
Tj = + 7 °C	Pdh	5.8	kW	Tj = + 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-				_
Tj = +12 °C	Pdh	4.0	kW	Tj = +12 °C	COPd	5.27	-
Degradation co-efficient (**)	Cdh	0.97	-				•
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	2.25	-
Tj = operation limit temperature (***)	Pdh	9.0	kW	Tj = operation limit temperature (***)	COPd	2.25	-
			•				_
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				•
Annual energy consumption	Q_{HE}	3044	kWh				
For heat pump combination heater:		•					
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the perso	n empowere	d to bind the	e supplier;	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
				Atsushi EDAYOSHI			

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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		EHSC-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:				no			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηѕ	213	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 2 °C	COPd	3.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.8	kW	Tj = + 7 °C	COPd	5.25	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	6.61	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	3.85	-
Tj = operation limit temperature (***)	Pdh	9.0	kW	Tj = operation limit temperature (***)	COPd	3.85	-
			_				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive 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				
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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 59	dBA				
Annual energy consumption	Q_{HE}	2224	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITION	ONING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;				
				Atsushi EDAYOSHI			

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

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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-***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:				no			
Parameters for				medium-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	134	%
Declared capacity for heating for part load a	t indoor	!		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	8.0	kW	Tj = - 7 °C	COPd	2.13	_
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	4.9	kW	Tj = + 2 °C	COPd	3.31	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.4	kW	Tj = + 7 °C	COPd	4.64	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	5.3	kW	Tj = +12 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.13	-
Tj = operation limit temperature (***)	Pdh	7.9	kW	Tj = operation limit temperature (***)	COPd	2.05	-
			•				
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
heating Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.1	kW
Thermostat-off mode	P _{TO}	0.022	kW	()		<u> </u>	
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		Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q_{HE}	5413	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details		•					
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	M EUROPF	LTD	Nettlehill Road, Houston Industrial Estate, Liv	vingston, FH	54 5FQ Scotl	and, U.K.

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

Atsushi EDAYOSHI Manager, Quality Assuarance Department

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

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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-***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:				no			
Parameters for				low-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	172	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	8.5	kW	Tj = - 7 °C	COPd	3.15	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 2 °C	COPd	4.09	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.62	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	5.6	kW	Tj = +12 °C	COPd	7.53	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	8.5	kW	Tj = bivalent temperature	COPd	3.15	-
Tj = operation limit temperature (***)	Pdh	8.4	kW	Tj = operation limit temperature (***)	COPd	2.91	-
			J				
Bivalent temperature	Tbiv	-7	_ ℃	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode	•		Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.2	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q_{HE}	4539	kWh				
For heat pump combination heater:				•			
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITION				Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;				

Atsushi EDAYOSHI

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

[·] 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 the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

Model(s):		Outdoor unit	i:	PUHZ-SHW80YAA(-BS)					
		Indoor unit:		ERSC-***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:				no					
Parameters for				medium-temperature application.					
Parameters for				colder climate conditions.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	114	%		
Declared capacity for heating for part load a	at indoor	-	-	Declared coefficient of performance or primary e	nergy ratio fo	or			
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	re Tj			
Tj = - 7 °C	Pdh	5.4	kW	Tj = - 7 °C	COPd	2.56	-		
Degradation co-efficient (**)	Cdh	0.99] -				•		
Tj = + 2 °C	Pdh	3.3	kW	Tj = + 2 °C	COPd	3.09	-		
Degradation co-efficient (**)	Cdh	0.98] -						
Tj = + 7 °C	Pdh	3.5	kW	Tj = + 7 °C	COPd	4.45	-		
Degradation co-efficient (**)	Cdh	0.97] -				1		
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	6.23	-		
Degradation co-efficient (**)	Cdh	0.97] -						
Tj = bivalent temperature	Pdh	7.6	kW	Tj = bivalent temperature	COPd	2.05	-		
Tj = operation limit temperature (***)	Pdh	7.6	kW	Tj = operation limit temperature (***)	COPd	1.75	-		
Tj = -15 °C (if TOL < -20 °C)	Pdh	7.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.11	-		
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C		
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than act	tive mode			Supplementary heater					
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.5	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		Rated air flow rate, outdoors	-	2700	m³/h		
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				•		
Annual energy consumption	Q_{HE}	7611	kWh						
For heat pump combination heater:									
Declared load profile		-		Water heating energy efficiency	ηwh	-	%		
Daily electricity consumption	Qelec	-	kWh				•		
Annual electricity consumption	AEC	-	kWh						
Contact details			•	•					
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.		
The identification and signature of the perso	n empowere	d to bind the	e supplier;						

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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-***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:				no			
Parameters for				low-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	150	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	5.8	kW	Tj = - 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.80	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.7	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.3	kW	Tj = +12 °C	COPd	6.96	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	8.1	kW	Tj = bivalent temperature	COPd	3.26	-
Tj = operation limit temperature (***)	Pdh	7.8	kW	Tj = operation limit temperature (***)	COPd	2.35	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	7.8	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	3.31	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode			Supplementary heater			
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	1.8	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 59	dBA				
Annual energy consumption	Q_{HE}	6198	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details	UNO CYCT	MEUDOSE	LTD	Namakii Baad Harris Arris (1997)	in and a Fire	54.550 O ''	
MITSUBISHI ELECTRIC AIR CODITION The identification and signature of the person				Nettlehill Road, Houston Industrial Estate, Liv	virigston, EH	54 5EQ, SC0tl	and, U.K.

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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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-***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:				no			
Parameters for				medium-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηѕ	159	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				•
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 2 °C	COPd	2.25	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	5.8	kW	Tj = + 7 °C	COPd	3.45	-
Degradation co-efficient (**)	Cdh	0.99	-				_
Tj = +12 °C	Pdh	4.0	kW	Tj = +12 °C	COPd	5.27	-
Degradation co-efficient (**)	Cdh	0.97	-				_
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	2.25	-
Tj = operation limit temperature (***)	Pdh	9.0	kW	Tj = operation limit temperature (***)	COPd	2.25	-
							<u>.</u>
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac	tive mode	1	1	Supplementary heater		1	Γ
Off mode	P_{OFF}	0.022	kW	Rated heat output (*)	Psup	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		Rated air flow rate, outdoors	-	2700	m ³ /h
Sound power level, indoors/outdoors	L_WA	40 / 59	dBA				
Annual energy consumption	Q_{HE}	2966	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITION	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;				
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- (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating
- Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
- (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
- (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

Model(s):		Outdoor unit	t:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-***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:				no			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηѕ	221	%
Declared capacity for heating for part load a	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 $^{\circ}\text{C}$ and outdoor temperature	Тj		_	part load at indoor temperature 20 °C and outdo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 2 °C	COPd	3.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.8	kW	Tj = + 7 °C	COPd	5.14	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	6.61	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	3.85	-
Tj = operation limit temperature (***)	Pdh	9.0	kW	Tj = operation limit temperature (***)	COPd	3.85	-
			_				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than ac-	tive 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				
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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 59	dBA				
Annual energy consumption	Q_{HE}	2146	kWh				
For heat pump combination heater:				-			
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITION	ONING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;				
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^(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

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

Parameters for pump:	Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
Stine-to-water heat pump: no no			Indoor unit:		ERSC-MED			
Properties to test pump:	Air-to-water heat pump:				yes			
Convergenature heat pump:	Water-to-water heat pump:				no			
Figure Parameters for Parameters Par	Brine-to-water heat pump:				no			
Parameters for	Low-temperature heat pump:				no			
Parameters for medium-temperature application.	Equipped with a supplementary heater:				no			
Parameters for average climate conditions. Item Symbol Value Unit Seasonal space heating energy efficiency Total part the parameters of temperature 20°C and outdoor temperature Tj Seasonal space heating energy efficiency ns 134 % Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj Tj = 7 °C COPd 2.13 - Tj = 2 °C Path 4.9 kW/V Tj = 7 °C COPd 2.13 - Degradation co-efficient (**) Ceh 0.99 - Tj = +2 °C COPd 3.31 - Tj = +7 °C Path 5.4 kW/V Tj = +2 °C COPd 3.31 - Degradation co-efficient (**) Ceh 0.98 - Tj = +2 °C COPd 4.64 - Tj = +12 °C Path 8.0 kW/V Tj = +12 °C COPd 5.22 - Tj = shalent temperature Path 8.0 kW/V Tj = speration limit temperature TOL 2.28 °C Bivalent temperature (**e**)	Heat pump combination heater:				no			
Rated heat output (*)	Parameters for				medium-temperature application.			
Rated heat output (*)	Parameters for				average climate conditions.			
Catact deat output (*) Prince 9.0 kW energy efficiency fig. 134 75	Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Declared capacity for heating for part load at indoor temperature 7) "C and outdoor temperature 7) "T j = -7 "C COPd 2.13 - Degradation co-efficient (**) Cdh 0.99 - T j = +2 "C COPd 3.31 - Degradation co-efficient (**) Cdh 0.99 - T j = +7 "C COPd 4.64 - Degradation co-efficient (**) Cdh 0.99 - T j = +12 "C COPd 4.64 - Degradation co-efficient (**) Cdh 0.99 - T j = +12 "C COPd 5.92 - Degradation co-efficient (**) Cdh 0.99 - T j = +12 "C COPd 5.92 - Degradation co-efficient (**) Cdh 0.98 - T j = +12 "C COPd 5.92 - Degradation co-efficient (**) Cdh 0.98 - T j = bivalent temperature P Pdh 8.0 kW T j = bivalent temperature P Pdh 7.9 kW T j = operation limit temperature COPd 2.13 - Degradation co-efficient (**) P Pdh 7.9 kW T j = operation limit temperature COPd 2.05 - Degradation limit temperature P Power consumption in modes other than active mode Off mode Power Documentation of Power Documentation Power Power Consumption in modes other than active mode Off mode Power Documentation Documentation Power Power Consumption in modes other than active mode Off mode Power Documentation Documentation Power Power Consumption in modes other than active mode Off mode Power Documentation Power Power Documentation Documentation Power P	Rated heat output (*)	Prated	9.0	kW		ηs	134	%
Ti = -7 °C	Declared capacity for heating for part load a	t indoor	ļ.			nergy ratio fo	or	
Degradation co-efficient (**)	temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = + 2 °C	Tj = - 7 °C	Pdh	8.0	kW	Tj = - 7 °C	COPd	2.13	_
Degradation co-efficient (**)	Degradation co-efficient (**)	Cdh	0.99	-				
$ T_{j} = +7 \ ^{\circ}C \\ Degradation co-efficient (**) \\ Degrad$	Tj = + 2 °C	Pdh	4.9	kW	Tj = + 2 °C	COPd	3.31	-
Degradation co-efficient (**) Tj = +12 °C Pdh 5.3 kW Degradation co-efficient (**) Cdh 0.98 Tj = bivalent temperature Pdh 8.0 kW Tj = bivalent temperature Tj = peration limit temperature (***) Pdh 7.9 kW Tj = operation limit temperature Pdh Reference design conditions for space heating Power consumption in modes other than active mode Off mode Porf Themostat-off mode Porf Capacity control Sound power level, indoors/outdoors Annual energy consumption Power consumption Qelec Daily electricity consumption AEC Annual electricity consumption AEC Annual electricity consumption AEC Add 0.98 Tj = +12 °C COPd 5.92 Tj = +12 °C COPd 5.92 Tj = tit 2 °C COPd 5.92 Tj = peration limit temperature TOL 5.92 "CO Heating water operating limit temperature WTOL 60 °C Supplementary heater Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Electrical File title and the supplementary heater Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Electrical File title and tit	Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Tj = + 7 °C	Pdh	5.4	kW	Tj = + 7 °C	COPd	4.64	-
Degradation co-efficient (**) Tj = bivalent temperature Pdh 8.0 kW Tj = operation limit temperature (***) Pdh 7.9 kW Tj = operation limit temperature (***) Bivalent temperature Tbiv 7.7 °C Reference design conditions for space heating Tdesignh 10 °C Power consumption in modes other than active mode Off mode Themostal-off mode Transcase heater mode Por To 0.022 kW Thermostal-off mode Por To 0.022 kW Thermostal-off mode Transcase heater mode Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Question limit temperature ToL -28 °C Heating water operating limit temperature WTOL 60 °C Heating water operating limit temperature WTOL 60 °C Supplementary heater Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency ¬wh - %	Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature Tj = operation limit temperature (***) Pdh Tj = operation limit temperature (***) Pdh Tj = operation limit temperature (***) Pdh Tj = operation limit temperature (***) Bivalent temperature Tbiv Tr Reference design conditions for space heating Tdesignh Tde	Tj = +12 °C	Pdh	5.3	kW	Tj = +12 °C	COPd	5.92	-
Tj = operation limit temperature (***) Bivalent temperature Tbiv T7 °C Reference design conditions for space heating Power consumption in modes other than active mode Off mode Thermostat-off mode Takes and the process of the process of the process of the pattern of the process of the pattern of the process of the process of the pattern of the patte	Degradation co-efficient (**)	Cdh	0.98	-				
Bivalent temperature Reference design conditions for space heating Power consumption in modes other than active mode Off mode Poff Off Off Off Off Off Off Off Off Off	Tj = bivalent temperature	Pdh	8.0	kW	Tj = bivalent temperature	COPd	2.13	-
Reference design conditions for space heating Power consumption in modes other than active mode Off mode Poff Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Declared load profile Daily electricity consumption Annual electricity consumption Annual electricity consumption AEC Tdesignh -10 °C Heating water operating limit temperature WTOL 60 °C Supplementary heater Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh - % Contact details	Tj = operation limit temperature (***)	Pdh	7.9	kW	Tj = operation limit temperature (***)	COPd	2.05	-
Reference design conditions for space heating Power consumption in modes other than active mode Off mode Poff Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Declared load profile Daily electricity consumption Annual electricity consumption Annual electricity consumption AEC Tdesignh -10 °C Heating water operating limit temperature WTOL 60 °C Supplementary heater Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh - % Contact details								
Heating water operating limit temperature WIOL 60 C	Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-28	°C
Power consumption in modes other than active mode Off mode Off mode Thermostat-off mode Standby mode Crankcase heater mode Crankcase heater mode Capacity control Sound power level, indoors/outdoors Annual energy consumption Policy Annual electricity consumption Qelec Annual electricity consumption Qelec Annual electricity consumption AEC Defared Supplementary heater Rated heat output (*) Psup 1.1 kW Type of energy input Electrical Fated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency nwh - % Water heating energy efficiency Nwh - % Contact details		Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Thermostat-off mode		ive mode			Supplementary heater			
Thermostat-off mode Standby mode Standby mode P _{SB} 0.022 kW Type of energy input Electrical Crankcase heater mode P _{CK} 0.000 kW Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Q _{HE} 5413 kWh For heat pump combination heater: Declared load profile Daily electricity consumption Qelec Annual electricity consumption Qelec Annual electricity consumption AEC Contact details	Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	—————Psup	1.1	kW
Standby mode Crankcase heater mode P _{SB} 0.022 kW Type of energy input Electrical Crankcase heater mode P _{CK} 0.000 kW Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Q _{HE} 5413 kWh For heat pump combination heater: Declared load profile Daily electricity consumption Qelec Annual electricity consumption Qelec Annual electricity consumption AEC Contact details	Thermostat-off mode		0.022	kW			1	
Other items Capacity control variable Rated air flow rate, outdoors - 2700 m³/h Sound power level, indoors/outdoors Annual energy consumption QHE 5413 kWh For heat pump combination heater: Declared load profile - Water heating energy efficiency nwh - % Daily electricity consumption Qelec - kWh Annual electricity consumption AEC - kWh Contact details	Standby mode	P_SB	0.022	kW	Type of energy input		Electrical	
Capacity control Sound power level, indoors/outdoors Annual energy consumption Declared load profile Daily electricity consumption Qelec Annual electricity consumption AEC Declared load profile Contact details Rated air flow rate, outdoors - 2700 m³/h Rated air flow rate, outdoors - 2700 m³/h Water heating energy efficiency NWh Alter heating energy efficiency NWh Contact details	Crankcase heater mode	P _{CK}	0.000	kW				
Sound power level, indoors/outdoors Annual energy consumption Contact details Lwa 40/59 dBA kWh Lwa 5413 kWh Annual energy consumption QHE 5413 kWh Water heating energy efficiency NWh Water heating energy efficiency NWh ABC - kWh Contact details	Other items							
Annual energy consumption Q _{HE} 5413 kWh For heat pump combination heater: Declared load profile Daily electricity consumption Qelec Annual electricity consumption AEC Contact details	Capacity control		variable		Rated air flow rate, outdoors	-	2700	m³/h
For heat pump combination heater: Declared load profile Daily electricity consumption Annual electricity consumption AEC Water heating energy efficiency NWh Water heating energy efficiency NWh Contact details	Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Declared load profile Daily electricity consumption Annual electricity consumption AEC Water heating energy efficiency NWh Water heating energy efficiency NWh Contact details	Annual energy consumption	Q_{HE}	5413	kWh				
Daily electricity consumption Annual electricity consumption AEC - kWh Contact details	For heat pump combination heater:				•			
Annual electricity consumption AEC - kWh Contact details	Declared load profile				Water heating energy efficiency	ηwh	-	%
Contact details	Daily electricity consumption	Qelec	-	kWh				
	Annual electricity consumption	AEC	-	kWh				

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

Atsushi EDAYOSHI Manager, Quality Assuarance Department

- · Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
- · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
- (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating
- Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
- (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
- (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-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:				no			
Parameters for				low-temperature application.			
Parameters for				average climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	172	%
Declared capacity for heating for part load a	t indoor	1		Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoo	or temperatur	re Tj	
Tj = - 7 °C	Pdh	8.5	kW	Tj = - 7 °C	COPd	3.15	-
Degradation co-efficient (**)	Cdh	0.99	_				
Tj = + 2 °C	Pdh	5.2	kW	Tj = + 2 °C	COPd	4.09	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.62	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	5.6	kW	Tj = +12 °C	COPd	7.53	-
Degradation co-efficient (**)	Cdh	0.97	_				
Tj = bivalent temperature	Pdh	8.5	kW	Tj = bivalent temperature	COPd	3.15	-
Tj = operation limit temperature (***)	Pdh	8.4	kW	Tj = operation limit temperature (***)	COPd	2.91	-
			ı				
Bivalent temperature	Tbiv	-7	°c	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode	•		Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.2	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				
Annual energy consumption	Q_{HE}	4539	kWh				
For heat pump combination heater:				•			
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person	n empowere	a to bind the	e supplier;				

Atsushi EDAYOSHI

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

UNITED KINGDOM

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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-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:				no			
Parameters for				medium-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηѕ	114	%
Declared capacity for heating for part load at	t indoor			Declared coefficient of performance or primary e	nergy ratio fc	or	
temperature 20 °C and outdoor temperature 1	Гј			part load at indoor temperature 20 °C and outdoo	or temperatui	re Tj	
Tj = - 7 °C	Pdh	5.4	kW	Tj = - 7 °C	COPd	2.56	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	3.3	kW	Tj = + 2 °C	COPd	3.09	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.5	kW	Tj = + 7 °C	COPd	4.45	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	6.23	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	7.6	kW	Tj = bivalent temperature	COPd	2.05	-
Tj = operation limit temperature (***)	Pdh	7.6	kW	Tj = operation limit temperature (***)	COPd	1.75	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	7.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.11	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.5	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_SB	0.022	kW	Type of energy input	ı	Electrical	
Crankcase heater mode	P_CK	0.000	kW		ı		
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				•
Annual energy consumption	Q_{HE}	7611	kWh				
For heat pump combination heater:				•			
Declared load profile				Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				.
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITION				Nettlehill Road, Houston Industrial Estate, Liv	/ingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the persor	n empowere	d to bind the	e supplier;				

Atsushi EDAYOSHI

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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.

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-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:				no			
Parameters for				low-temperature application.			
Parameters for				colder climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	150	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdoo	or temperatu	re Tj	
Tj = - 7 °C	Pdh	5.8	kW	Tj = - 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-				ı
Tj = + 2 °C	Pdh	3.5	kW	Tj = + 2 °C	COPd	3.80	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	3.7	kW	Tj = + 7 °C	COPd	5.20	_
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	4.3	kW	Tj = +12 °C	COPd	6.96	_
Degradation co-efficient (**)	Cdh	0.96	-				l
Tj = bivalent temperature	Pdh	8.1	kW	Tj = bivalent temperature	COPd	3.26	_
Tj = operation limit temperature (***)	Pdh	7.8	kW	Tj = operation limit temperature (***)	COPd	2.35	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	7.8	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	3.31	-
Bivalent temperature	Tbiv	-16	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	-22	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than act	ive mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.8	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				1
Annual energy consumption	Q_{HE}	6198	kWh				
For heat pump combination heater:			•				
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				•
Annual electricity consumption	AEC	-	kWh				
Contact details		•	•				
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e sunnlier:				

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

Atsushi EDAYOSHI

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

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-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:				no			
Parameters for				medium-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	159	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio fc	or .	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdoor	or temperatui	e Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				l
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 2 °C	COPd	2.25	_
Degradation co-efficient (**)	Cdh	1.00	-				l
Tj = + 7 °C	Pdh	5.8	kW	Tj = + 7 °C	COPd	3.45	-
Degradation co-efficient (**)	Cdh	0.99	-				l
Tj = +12 °C	Pdh	4.0	kW	Tj = +12 °C	COPd	5.27	_
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	2.25	-
Tj = operation limit temperature (***)	Pdh	9.0	kW	Tj = operation limit temperature (***)	COPd	2.25	-
							l
Bivalent temperature	Tbiv	2] ∘c	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode	•		Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 59	dBA				'
Annual energy consumption	Q_{HE}	2966	kWh				
For heat pump combination heater:		•					
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITION	NING SVSTI		ı TD	Nettlehill Road, Houston Industrial Estate, Liv	vingston EU	54 5E0 Scatl	and IIK
The identification and signature of the person				Netheriii Nodu, Houston Muustiidi Estäte, Ei		J-+ J∟W, JUUII	unu, U.N.
	, ,			Atsushi EDAYOSHI			

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

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

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

Model(s):		Outdoor unit		PUHZ-SHW80YAA(-BS)			
		Indoor unit:		ERSC-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:				no			
Parameters for				low-temperature application.			
Parameters for				warmer climate conditions.			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηѕ	221	%
Declared capacity for heating for part load a	t indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
temperature 20 °C and outdoor temperature	Гј		_	part load at indoor temperature 20 °C and outdoor	or temperatu	re Tj	
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 2 °C	COPd	3.85	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.8	kW	Tj = + 7 °C	COPd	5.14	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	6.61	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	9.0	kW	Tj = bivalent temperature	COPd	3.85	-
Tj = operation limit temperature (***)	Pdh	9.0	kW	Tj = operation limit temperature (***)	COPd	3.85	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than acti	ve mode			Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	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		Rated air flow rate, outdoors	-	2700	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 59	dBA				
Annual energy consumption	Q_{HE}	2146	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	d to bind the	e supplier;	Atsushi EDAYOSHI			

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

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

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