Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	132	%
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 outdo	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	°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 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				
Standby mode	P_{SB}	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	6.580	kWh				
Annual electricity consumption	AEC	1448	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	and, U.K.
The identification and signature of the person	n empowered	to bind the	e supplier:	Atsushi EDAYOSHI			
1 51 /				Manager, Quality Assuarance Department			
A (dapaki	-						

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.

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	167	%
Declared capacity for heating for part load a	it 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 outdo	or temperatu	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	-				I
Tj = +12 °C	Pdh	5.6	kW	Tj = +12 °C	COPd	7.53	-
Degradation co-efficient (**)	Cdh	0.97	-				I
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	-
			-				I
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 act	ive 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		XL		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	6.580	kWh				
Annual electricity consumption	AEC	1448	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	M EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the perso	n empowered	d to bind the	e supplier;	· · · · · · · · · · · · · · · · · · ·			
The signature is signed in the average clim	nate / mediu	m-temperati	ure section.	Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			
Details and precautions on installation, maintena Details and precautions on recycling and/or dis	posal at end-	of-life can be		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.

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-****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	9.0	kW	Seasonal space heating energy efficiency	ηs	111	%	
Declared capacity for heating for part load at indoor			Declared coefficient of performance or primary energy ratio for					
temperature 20 °C and outdoor temperature	emperature 20 °C and outdoor temperature T j				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	-					
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	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		XL		Water heating energy efficiency	ηwh	93	%	
Daily electricity consumption	Qelec	8.430	kWh					
Annual electricity consumption	AEC	1855	kWh					
Contact details								
				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.	
The identification and signature of the perso The signature is signed in the average clim	-			Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM				
Details and precautions on installation, maintena Details and precautions on recycling and/or dis Details and precautions on recycling and/or dis	posal at end-	of-life can be	found in the					

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	146	%	
Declared capacity for heating for part load at indoor			Declared coefficient of performance or primary energy ratio for					
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	re Tj		
Tj = - 7 °C	Pdh	5.8	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		XL		Water heating energy efficiency	ηwh	93	%	
Daily electricity consumption	Qelec	8.430	kWh					
Annual electricity consumption	AEC	1855	kWh					
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	M EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.	
The identification and signature of the person	n empowered	d to bind the	e supplier;					
The signature is signed in the average clim	nate / mediu	m-temperati	ure section.	Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM				
Details and precautions on installation, maintena Details and precautions on recycling and/or dis (1) For heat pump space beaters and heat pump	posal at end-	of-life can be	found in the					

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-****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	9.0	kW	Seasonal space heating energy efficiency	ηs	155	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	- 1				
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		XL		Water heating energy efficiency	ηwh	127	%
Daily electricity consumption	Qelec	6.220	kWh				
Annual electricity consumption	AEC	1368	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE		I TD	Nettlehill Road, Houston Industrial Estate, Li	vinaston FH	54 5EQ Scot	and UK
The identification and signature of the perso						,	
The signature is signed in the average clim	·			Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-****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	9.0	kW	Seasonal space heating energy efficiency	ηs	213	%
Declared capacity for heating for part load	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
emperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	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	5.25	-
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	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	127	%
Daily electricity consumption	Qelec	6.220	kWh				
Annual electricity consumption	AEC	1368	kWh				
Contact details							
				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person The signature is signed in the average clir	·		••	Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-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	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 a	t indoor		-	Declared coefficient of performance or primary e	nergy ratio fo	r	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatur	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	-
			1			·	
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 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				
Standby mode	P_{SB}	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	6.580	kWh				
Annual electricity consumption	AEC	1448	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	MEUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person	n empowered	to bind the	e supplier:				
1 5/ /				Atsushi EDAYOSHI Manager, Quality Assuarance Department			
1 caapani	-			UNITED KINGDOM			
Details and precautions on installation, maintena	ance and asse	embly can be	found in the				

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.

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-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	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	it 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 outdo	or temperatu	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	-				I
Tj = +12 °C	Pdh	5.6	kW	Tj = +12 °C	COPd	7.53	-
Degradation co-efficient (**)	Cdh	0.97	-				I
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	-
			-				I
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 act	ive 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		XL		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	6.580	kWh				
Annual electricity consumption	AEC	1448	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	M EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the perso	n empowered	d to bind the	e supplier;	· · · · · · · · · · · · · · · · · · ·			
The signature is signed in the average clim	nate / mediu	m-temperati	ure section.	Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			
Details and precautions on installation, maintena Details and precautions on recycling and/or dis	posal at end-	of-life can be		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.

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-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	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	pr	
temperature 20 °C and outdoor temperature	Тј			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	-				I
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	-				I
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 ac	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		XL		Water heating energy efficiency	ηwh	93	%
Daily electricity consumption	Qelec	8.430	kWh				
Annual electricity consumption	AEC	1855	kWh				
Contact details				•			
MITSUBISHI ELECTRIC AIR CODITIC	NING SYSTE	MEUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	and, U.K.
The identification and signature of the perso	n empowered	to bind the	e supplier;				
The signature is signed in the average clin	nate / mediur	m-temperatu	ure section.	Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			
Details and precautions on installation, mainten Details and precautions on recycling and/or dis (*) For heat pump space better, and heat pump	sposal 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.

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-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	9.6	kW	Seasonal space heating energy efficiency	ηs	146	%
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	Тј			part load at indoor temperature 20 °C and outdo	or temperatu	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	tive 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	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	93	%
Daily electricity consumption	Qelec	8.430	kWh				
Annual electricity consumption	AEC	1855	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE			Nettlehill Road, Houston Industrial Estate, Li	vingston EH	54.5E0 Scot	and IIK
The identification and signature of the perso				Netterini Noad, Houston muustnai Estate, El			unu, U.N.
The signature is signed in the average clin	·			Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	ηs	155	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	- 1				
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		XL		Water heating energy efficiency	ηwh	127	%
Daily electricity consumption	Qelec	6.220	kWh				
Annual electricity consumption	AEC	1368	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE		I TD	Nettlehill Road, Houston Industrial Estate, Li	vinaston FH	54 5EQ Scot	and UK
The identification and signature of the perso						,	
The signature is signed in the average clim	·			Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	EHST30C-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	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	at indoor			Declared coefficient of performance or primary e	nergy ratio fo	or	
emperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	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	5.25	-
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	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	127	%
Daily electricity consumption	Qelec	6.220	kWh				
Annual electricity consumption	AEC	1368	kWh				
Contact details							
				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person The signature is signed in the average clir	·		••	Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	ERST30C-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	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	Гј			part load at indoor temperature 20 °C and outdo	or temperatur	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	-
	I		1				
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	1.1	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	Р _{ск}	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}	5413	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	6.580	kWh				
Annual electricity consumption	AEC	1448	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	M EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person	n empowered	to bind the	e supplier:				
151 -				Atsushi EDAYOSHI			
A Edapski	-			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.

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	ERST30C-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	172	%
Declared capacity for heating for part load	at indoor	1	1	Declared coefficient of performance or primary e	nergy ratio fo	pr	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	or temperatu	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	-
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	1.2	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P_{SB}	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	120	%
Daily electricity consumption	Qelec	6.580	kWh				
Annual electricity consumption	AEC	1448	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	and, U.K.
The identification and signature of the perso The signature is signed in the average clir	-			Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			
Details and precautions on installation, mainter Details and precautions on recycling and/or di	sposal at end-	of-life can be	found in the				

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	ERST30C-****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	9.0	kW	Seasonal space heating energy efficiency	ηs	114	%
Declared capacity for heating for part load a	it indoor			Declared coefficient of performance or primary e	energy ratio fo	or	
temperature 20 °C and outdoor temperature	Тj			part load at indoor temperature 20 °C and outdo	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	3.09	-
Degradation co-efficient (**)	Cdh	0.98	-				I
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 act	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	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	93	%
Daily electricity consumption	Qelec	8.430	kWh				
Annual electricity consumption	AEC	1855	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	MEUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	and, U.K.
The identification and signature of the perso The signature is signed in the average clim	·			Atsushi EDAYOSHI Manager, Quality Assuarance Department			
				UNITED KINGDOM			
Details and precautions on installation, maintena Details and precautions on recycling and/or dis (*) For heat pump space heaters and heat pump	posal at end-	of-life can be	found in the				

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

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	ERST30C-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.6	kW	Seasonal space heating energy efficiency	ηs	150	%
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	5.8	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 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	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	93	%
Daily electricity consumption	Qelec	8.430	kWh				
Annual electricity consumption	AEC	1855	kWh				
Contact details				· ·			
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating

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

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

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	ERST30C-****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	9.0	kW	Seasonal space heating energy efficiency	ηs	159	%
Declared capacity for heating for part load a	at indoor	-		Declared coefficient of performance or primary e	energy ratio fo	or	
temperature 20 $^\circ \! C$ and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdo	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	3.45	-
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	-
			-				
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}	2966	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	127	%
Daily electricity consumption	Qelec	6.220	kWh				
Annual electricity consumption	AEC	1368	kWh				
Contact details							
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Details and precautions on installation, mainten Details and precautions on recycling and/or dis	sposal at end-	of-life can be	e 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.

Model(s):	Outdoor unit:	PUHZ-SHW80YAA(-BS)
	Indoor unit:	ERST30C-****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	9.0	kW	Seasonal space heating energy efficiency	ηs	221	%
Declared capacity for heating for part load	at indoor	1		Declared coefficient of performance or primary e	nergy ratio fo	pr	
temperature 20 °C and outdoor temperature	Тј			part load at indoor temperature 20 °C and outdo	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 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	Р _{ск}	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		XL		Water heating energy efficiency	ηwh	127	%
Daily electricity consumption	Qelec	6.220	kWh				
Annual electricity consumption	AEC	1368	kWh				
Contact details							
				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the personnal signature of the personnal signature is signed in the average clir	-			Atsushi EDAYOSHI Manager, Quality Assuarance Department UNITED KINGDOM			

(*) 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.