Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	15.8	kW	Seasonal space heating energy efficiency	ηs	127	%
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	14.0	kW	Tj = - 7 °C	COPd	1.84	-
Degradation co-efficient (**)	Cdh	1.00] -				•
Tj = + 2 °C	Pdh	8.5	kW	Tj = + 2 °C	COPd	3.10	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.5	kW	Tj = + 7 °C	COPd	4.67	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	7.0	kW	Tj = +12 °C	COPd	6.62	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.84	-
Tj = operation limit temperature (***)	Pdh	13.9	kW	Tj = operation limit temperature (***)	COPd	1.83	-
			•				
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	1.9	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_SB	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 70	dBA				
Annual energy consumption	Q_{HE}	10054	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	118	%
Daily electricity consumption	Qelec	6.710	kWh				
Annual electricity consumption	AEC	1476	kWh				
Contact details	NINO 23 /2=					F. FEG. 5	
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Li	/ingston, EH	54 5EQ, Scot	land, U.K.
The identification and signature of the person	n empowere	u to bind the	supplier:				

Atsushi EDAYOSHI

Manager, Quality Assuarance Department

UNITED KINGDOM

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

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

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

^(**) 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-SHW140YHA(-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	17.0	kW	Seasonal space heating energy efficiency	ηѕ	163	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio f	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	15.0	kW	Tj = - 7 °C	COPd	2.59	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	9.1	kW	Tj = + 2 °C	COPd	4.01	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.9	kW	Tj = + 7 °C	COPd	5.71	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	7.3	kW	Tj = +12 °C	COPd	7.47	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	15.0	kW	Tj = bivalent temperature	COPd	2.59	-
Tj = operation limit temperature (***)	Pdh	14.1	kW	Tj = operation limit temperature (***)	COPd	2.42	-
			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	2.9	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_SB	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 70	dBA				
Annual energy consumption	Q_{HE}	8446	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	118	%
Daily electricity consumption	Qelec	6.710	kWh				
Annual electricity consumption	AEC	1476	kWh				
Contact details	NINO OVOT	EM EUDODE	LTD	Namabili Danid Harrison / 1 11 15 1 1 1 1	dans to the Etc.	E4.EEO O	
MITSUBISHI ELECTRIC AIR CODITION The identification and signature of the person				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotla	and, U.K.
The identification and signature of the person	r empowere	a to billa the	, suppliel,	Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	ım-temperatı	ire section.	Manager, Quality Assuarance Department			
				UNITED KINGDOM			

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	15.8	kW	Seasonal space heating energy efficiency	ηs	121	%
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	9.6	kW	Tj = - 7 °C	COPd	2.74	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	5.8	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	4.2	kW	Tj = + 7 °C	COPd	5.00	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	7.1	kW	Tj = +12 °C	COPd	6.66	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	13.3	kW	Tj = bivalent temperature	COPd	1.43	-
Tj = operation limit temperature (***)	Pdh	11.2	kW	Tj = operation limit temperature (***)	COPd	1.43	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	12.9	kW	Tj = - 15 °C (if TOL < -20 °C)	COPd	1.56	-
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	4.6	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	-	6000	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 70	dBA				
Annual energy consumption	Q_{HE}	12569	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	91	%
Daily electricity consumption	Qelec	8.640	kWh				
Annual electricity consumption	AEC	1901	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITION				Nettlehill Road, Houston Industrial Estate, Liv	/ingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person	n empowere	ea to bind the	e supplier;	Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	ım-temperatı	ure 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

^(**) 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-SHW140YHA(-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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	ηs	149	%
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	10.3	kW	Tj = - 7 °C	COPd	3.14	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	6.3	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	6.01	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	7.3	kW	Tj = +12 °C	COPd	7.47	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	14.3	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	11.7	kW	Tj = operation limit temperature (***)	COPd	1.72	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	13.9	kW	Tj = - 15 °C (if TOL < -20 °C)	COPd	2.12	-
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	5.3	kW
Thermostat-off mode	P_{TO}	0.022	kW		ı		
Standby mode	P_{SB}	0.022	kW	Type of energy input	ı	Electrical	
Crankcase heater mode	P _{CK}	0.000	kW		<u> </u>		
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 70	dBA				
Annual energy consumption	Q_{HE}	11031	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	91	%
Daily electricity consumption	Qelec	8.640	kWh				
Annual electricity consumption	AEC	1901	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTE	EM EUROPE	LTD.	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;				
The signature is signed in the average clim	ate / modi:-	m-temporati	ire cootion	Atsushi EDAYOSHI Manager, Quality Assuarance Department			
Signature is signed in the average cliff	ato / moulu	temperati		UNITED KINGDOM			

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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-SHW140YHA(-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	14.0	kW	Seasonal space heating energy efficiency	ηs	153	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	1.92	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	3.12	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	6.8	kW	Tj = +12 °C	COPd	5.70	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
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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 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	-	6000	m ³ /h
Sound power level, indoors/outdoors	L_WA	40 / 70	dBA				
Annual energy consumption	Q_{HE}	4811	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	126	%
Daily electricity consumption	Qelec	6.270	kWh				
Annual electricity consumption	AEC	1379	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	ea to bind the	e supplier;	Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	ım-temperatı	ure 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

^(**) 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-SHW140YHA(-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	15.5	kW	Seasonal space heating energy efficiency	ηs	209	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	15.5	kW	Tj = + 2 °C	COPd	2.74	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	10.0	kW	Tj = + 7 °C	COPd	4.56	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	7.2	kW	Tj = +12 °C	COPd	7.23	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	15.5	kW	Tj = bivalent temperature	COPd	2.74	-
Tj = operation limit temperature (***)	Pdh	15.5	kW	Tj = operation limit temperature (***)	COPd	2.74	-
			•				
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C
Reference design conditions for space	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
heating 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		6000	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 70	dBA				
Annual energy consumption	Q _{HE}	3914	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	126	%
Daily electricity consumption	Qelec	6.270	kWh		•		
Annual electricity consumption	AEC	1379	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO	NING SYST	EM EUROPE	LTD.	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	supplier;	Atough: FDAVOCHI			
The signature is signed in the average clim	ate / mediu	ım-temneratı	ire section	Atsushi EDAYOSHI Manager, Quality Assuarance Department			
				UNITED KINGDOM			

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	15.8	kW	Seasonal space heating energy efficiency	ηs	127	%
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	14.0	kW	Tj = - 7 °C	COPd	1.84	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	8.5	kW	Tj = + 2 °C	COPd	3.10	-
Degradation co-efficient (**)	Cdh	0.99	-				•
Tj = + 7 °C	Pdh	5.5	kW	Tj = + 7 °C	COPd	4.67	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = +12 °C	Pdh	7.0	kW	Tj = +12 °C	COPd	6.62	-
Degradation co-efficient (**)	Cdh	0.98	-				•
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.84	-
Tj = operation limit temperature (***)	Pdh	13.9	kW	Tj = operation limit temperature (***)	COPd	1.83	-
			•				•
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	1.9	kW
Thermostat-off mode	P_{TO}	0.022	kW				!
Standby mode	P_SB	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	P_{CK}	0.000	kW				
Other items		1			-		
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 70	dBA				-
Annual energy consumption	Q_{HE}	10054	kWh				
For heat pump combination heater:		•		•			
Declared load profile		XL		Water heating energy efficiency	ηwh	118	%
Daily electricity consumption	Qelec	6.710	kWh				=
Annual electricity consumption	AEC	1476	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITIO				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:				

Atsushi EDAYOSHI

Manager, Quality Assuarance Department

UNITED KINGDOM

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

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

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

^(**) 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-SHW140YHA(-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	17.0	kW	Seasonal space heating energy efficiency	ηѕ	163	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio f	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	15.0	kW	Tj = - 7 °C	COPd	2.59	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	9.1	kW	Tj = + 2 °C	COPd	4.01	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.9	kW	Tj = + 7 °C	COPd	5.71	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	7.3	kW	Tj = +12 °C	COPd	7.47	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	15.0	kW	Tj = bivalent temperature	COPd	2.59	-
Tj = operation limit temperature (***)	Pdh	14.1	kW	Tj = operation limit temperature (***)	COPd	2.42	-
			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	2.9	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_SB	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 70	dBA				
Annual energy consumption	Q_{HE}	8446	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	118	%
Daily electricity consumption	Qelec	6.710	kWh				
Annual electricity consumption	AEC	1476	kWh				
Contact details	UNO OLOT	EM EUDODE	LTD	Namabili Danid Harrison / 1 11 15 1 1 1 1	danates Etc	E4 EEO O	
MITSUBISHI ELECTRIC AIR CODITION The identification and signature of the person				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person	. empowere	a to billa the	, suppliel,	Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	ım-temperatı	ire section.	Manager, Quality Assuarance Department			
				UNITED KINGDOM			

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	15.8	kW	Seasonal space heating energy efficiency	ηs	121	%
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	9.6	kW	Tj = - 7 °C	COPd	2.74	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	5.8	kW	Tj = + 2 °C	COPd	3.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	4.2	kW	Tj = + 7 °C	COPd	5.00	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	7.1	kW	Tj = +12 °C	COPd	6.66	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	13.3	kW	Tj = bivalent temperature	COPd	1.43	-
Tj = operation limit temperature (***)	Pdh	11.2	kW	Tj = operation limit temperature (***)	COPd	1.43	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	12.9	kW	Tj = - 15 °C (if TOL < -20 °C)	COPd	1.56	-
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	4.6	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	-	6000	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 70	dBA				
Annual energy consumption	Q_{HE}	12569	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	91	%
Daily electricity consumption	Qelec	8.640	kWh				
Annual electricity consumption	AEC	1901	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 persor	n empowere	ed to bind the	e supplier;	Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	ım-temperatı	ure section.	Manager, Quality Assuarance Department			
				UNITED KINGDOM			

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	ηs	149	%
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	10.3	kW	Tj = - 7 °C	COPd	3.14	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	6.3	kW	Tj = + 2 °C	COPd	4.75	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	6.01	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	7.3	kW	Tj = +12 °C	COPd	7.47	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	14.3	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operation limit temperature (***)	Pdh	11.7	kW	Tj = operation limit temperature (***)	COPd	1.72	-
Tj = -15 °C (if TOL < -20 °C)	Pdh	13.9	kW	Tj = -15 °C (if TOL < -20 °C)	COPd	2.12	-
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	1	•	Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	5.3	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		<u> </u>		
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 70	dBA				
Annual energy consumption	Q_{HE}	11031	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	91	%
Daily electricity consumption	Qelec	8.640	kWh				
Annual electricity consumption	AEC	1901	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTI	EM EUROPE	LTD.	Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the person				,	<u> </u>		
				Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	m-temperatu	ure 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

^(**) 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.

Moderation state that pump:	Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-BS)			
Simple-lowester heat pump:			Indoor unit:		EHST30C-MED			
Bene-to-water heat pump: Low temperature heat pump: Parameters for Heat pump contribution heater: Farameters for Rated heat output (*) Probable Special department of part load at indoor Lemperature 20°C and outdoor temperature 1" 1" = "" - "" C	Air-to-water heat pump:				yes			
Low temperature heat pump: Easipped with a supplementatiny heater: Parameters for The fitter	Water-to-water heat pump:				no			
Feat purpose with a supplementary heater:	Brine-to-water heat pump:				no			
Parameters for modum-temperature application. Parameters for modum-temperature application. Rated heat output (*)	Low-temperature heat pump:				no			
Parameters for medium-temperature application. Parameters for	Equipped with a supplementary heater:				no			
Parameters for warmer dimate conditions.	Heat pump combination heater:				yes			
Rated heat output (*) Prated 14.0 M/V	Parameters for				medium-temperature application.			
Rated heat output (*) Prated 14.0 kW Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T j Tj = -7 °C Peth - kW Degradation co-efficient (**) Degradation co-efficient	Parameters for				warmer climate conditions.			
Parallel	Item	Symbol	Value	Unit	ltem	Symbol	Value	Unit
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T T = -7 °C Peh Ph	Rated heat output (*)	Prated	14.0	kW		ηs	153	%
T = -7 °C	Declared capacity for heating for part load a	t indoor	!			nergy ratio fo	or	
Degradation co-efficient (**)	temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdo	or temperatu	re Tj	
Ti = +2 °C	Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (") Cdh 1.00 - Tj = +7 °C COPd 3.12 - Degradation co-efficient (") Cdh 0.99 - Tj = +12 °C COPd 5.70 - Degradation co-efficient (") Cdh 0.98 - Tj = +12 °C COPd 5.70 - Degradation co-efficient (") Cdh 0.98 - Tj = bivalent temperature Pdh 14.0 kW Tj = bivalent temperature COPd 1.92 - Tj = postation limit temperature ("") Pdh 14.0 kW Tj = operation limit temperature ("") COPd 1.92 - COPD COPD 1.92 - CO	Degradation co-efficient (**)	Cdh	-	-				
T = +7 °C	Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	1.92	-
Degradation co-efficient (**) Tj = +12 °C Pdh 6.8 kW Degradation co-efficient (**) Cdh 0.98 - Tj = bivalent temperature Pdh 14.0 KW Tj = operation limit temperature Tot 2 °C Reference design conditions for space Reference design conditions for space Neating Off mode Power consumption in modes other than active mode Off mode Porr 0.022 KW Thermostat-off mode Pro 0.022 KW Type of energy input Electrical Tj = bivalent temperature Tot 28 "C Heating water operating limit temperature WTOL 60 "C Supplementary heater Rated heat output (*) Psup 0.0 kW Type of energy input Electrical Tig = operation limit temperature Tot 28 "C Heating water operating limit temperature WTOL 60 "C Supplementary heater Rated heat output (*) Psup 0.0 kW Type of energy input Electrical Tig = bivalent temperature Tot 28 "C Heating water operating limit temperature WTOL 60 "C New Consumption in modes other than active mode New Type of energy input Electrical Fated air flow rate, outdoors - 6000 m³/h Water heating energy efficiency Type in one of the person empowered to bind the supplier; Nettlehill Road, Houston Industrial Estate, Livingston, EH54 SEQ, Scotland, U.K. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section.	Degradation co-efficient (**)	Cdh	1.00	-				
Tj = +12 °C Pdh 6.8 kW Degradation co-efficient (**) Cdh 0.98 - Tj = bivalent temperature Pdh 14.0 kW Tj = bivalent temperature COPd 1.92 - Tj = bivalent temperature (***) Pdh 14.0 kW Tj = bivalent temperature (***) COPd 1.92 - Tj = operation limit temperature (***) Pdh 14.0 kW Tj = operation limit temperature (***) COPd 1.92 - Tj = operation limit temperature	Tj = + 7 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	3.12	-
Degradation co-efficient (**) Tj = bivalent temperature Pdh 14.0 kW Tj = bivalent temperature COPd 1.92 - Tj = operation limit temperature Tij = operation limit temperature Tj = operation limit temperature Tij = o	Degradation co-efficient (**)	Cdh	0.99	-				
Tj = bivalent temperature Tj = operation limit temperature ToL = 28	Tj = +12 °C	Pdh	6.8	kW	Tj = +12 °C	COPd	5.70	-
Tj = operation limit temperature (***) Pdh 14.0 kW Tj = operation limit temperature (***) COPd 1.92 - Bivalent temperature Tbiv 2 °C Reference design conditions for space heating Tdesignh 2 °C Heating water operating limit temperature WTOL 60 °C Power consumption in modes other than active mode Off mode Por 0.022 kW Thermostat-off mode Por 0.022 kW Standby mode Ps 8 0.022 kW Type of energy input Electrical Crankcase heater mode Por 0.000 kW Type of energy input Electrical Capacity control variable Sound power level, indoors/outdoors LwA 40 / 70 dBA Annual energy consumption QHE 4811 kWh For heat pump combination heater: Declared load profile XL Water heating energy efficiency NW 126 % Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department	Degradation co-efficient (**)	Cdh	0.98	-				
Bivalent temperature Reference design conditions for space heating Total Telegish Total Tele	Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.92	-
Reference design conditions for space heating Power consumption in modes other than active mode Off mode Poef Doef O.022 kW Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Declared load profile Design Declared load profile Annual electricity consumption AEC 1379 kWh Annual electricity consumption AEC 1379 kWh The signature is signed in the average climate / medium-temperature section. Heating water operating limit temperature WTOL 60 °C Supplementary heater Rated heat output (*) Psup 0.0 kW Type of energy input Electrical Fated air flow rate, outdoors - 6000 m³/h Water heating energy efficiency nwh 126 % Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department	Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
Reference design conditions for space heating Power consumption in modes other than active mode Off mode Poef Doef O.022 kW Thermostat-off mode Standby mode Crankcase heater mode Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Declared load profile Design Declared load profile Annual electricity consumption AEC 1379 kWh Annual electricity consumption AEC 1379 kWh The signature is signed in the average climate / medium-temperature section. Heating water operating limit temperature WTOL 60 °C Supplementary heater Rated heat output (*) Psup 0.0 kW Type of energy input Electrical Fated air flow rate, outdoors - 6000 m³/h Water heating energy efficiency nwh 126 % Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department				ı				
Power consumption in modes other than active mode Off mode Poer O.022 kW Thermostat-off mode Poer O.022 kW Standby mode Poer O.022 kW Thermostat-off mode Poer O.022 kW Type of energy input Electrical Other items Capacity control Variable Sound power level, indoors/outdoors LwA 40 / 70 dBA Annual energy consumption QHE 4811 kWh For heat pump combination heater: Declared load profile XL Daily electricity consumption AEC 1379 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI Manager, Quality Assuarance Department	Bivalent temperature	Tbiv	2	°c	Operation limit temperature	TOL	-28	°C
Power consumption in modes other than active mode Off mode Poer Off mode Poer Off mode Poer Off mode Poer Off mode Poer Nounce Nounce Poer Nounce Nounce Poer Nounce Nou	-	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Off mode Poff 0.022 kW Thermostat-off mode PTO 0.022 kW Type of energy input Electrical Other items Capacity control Variable Sound power level, indoors/outdoors Annual energy consumption Qelec 6.270 kWh Daily electricity consumption AEC 1379 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Rated heat output (*) Psup 0.0 kW Rated heat output (*) Psup 0.0 kW Type of energy input Electrical Electrical Rated air flow rate, outdoors - 6000 m³/h Water heating energy efficiency nwh 126 % Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section.		ivo modo						
Thermostat-off mode P _{TO} 0.022 kW Type of energy input Electrical Standby mode P _{SB} 0.022 kW Type of energy input Electrical Other items Capacity control variable Sound power level, indoors/outdoors L _{WA} 40 / 70 dBA Annual energy consumption Q _{HE} 4811 kWh For heat pump combination heater: Declared load profile XL Water heating energy efficiency ηwh 126 % Daily electricity consumption Qelec 6.270 kWh Annual electricity consumption AEC 1379 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department	· · · · · · · · · · · · · · · · · · ·		0.022	k\A/		Pour	T 00 T	F/V/
Standby mode Crankcase heater mode P _{SB} 0.022 RW Type of energy input Electrical Other items Capacity control Sound power level, indoors/outdoors Annual energy consumption Q _{HE} 4811 Wh For heat pump combination heater: Declared load profile Daily electricity consumption Qelec Annual electricity consumption Qelec Annual electricity consumption AEC 1379 RWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department				1	Rated Heat Output ()	Psup	0.0	KVV
Crankcase heater mode PCK 0.000 kW Cher items Capacity control Sound power level, indoors/outdoors Annual energy consumption Celeared load profile Declared load profile Daily electricity consumption AEC 1379 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The signature is signed in the average climate / medium-temperature section. Rated air flow rate, outdoors - 6000 m³/h Rated air flow rate, outdoors - 6000 m³/h Water heating energy efficiency Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department				1	Tong of anomy insut		Flashiasi	
Capacity control Capacity control Sound power level, indoors/outdoors Annual energy consumption Capacity consumption Capacity control Sound power level, indoors/outdoors LWA A0 / 70 ABA ANnual energy consumption Capacity consumption AEC ANNual electricity consumption AEC ANNual electricity consumption AEC ANNual electricity consumption AEC ANNual electricity consumption AEC AEC AEC AEC AEC AEC AEC AE				-	Type of energy input		Electrical	
Capacity control Sound power level, indoors/outdoors Annual energy consumption Capacity control Capacity control Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Rated air flow rate, outdoors - 6000 m³/h Wh Variable Rated air flow rate, outdoors - 6000 m³/h Rated air flow rate, outdoors - 6000 m³/h Wh Power heating energy efficiency Newh Alsushi EDAYOSHI Atsushi EDAYOSHI Manager, Quality Assuarance Department	-	P _{CK}	0.000	KVV		<u> </u>		
Sound power level, indoors/outdoors LWA 40 / 70 dBA Annual energy consumption QHE 4811 kWh For heat pump combination heater: Declared load profile XL Water heating energy efficiency NWh 126 % Daily electricity consumption Qelec 6.270 kWh Annual electricity consumption AEC 1379 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section.					Rated air flow rate outdoors		1 0000	3.,
Annual energy consumption QHE 4811 kWh For heat pump combination heater: Declared load profile XL Daily electricity consumption AEC 1379 kWh Annual electricity consumption AEC MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Water heating energy efficiency Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Manager, Quality Assuarance Department	• •	L .		ID.A	Trated all now rate, outdoors	-	6000	m°/h
For heat pump combination heater: Declared load profile XL Water heating energy efficiency \(\text{nw} \) 126 % Daily electricity consumption Qelec 6.270 kWh Annual electricity consumption AEC 1379 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department				1				
Declared load profile XL Water heating energy efficiency Nh 126 % Annual electricity consumption AEC 1379 KWh Annual electricity consumption AEC 1379 KWh MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Water heating energy efficiency Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Manager, Quality Assuarance Department		Q _{HE}	4811	kWh				
Daily electricity consumption Qelec 6.270 kWh Annual electricity consumption AEC 1379 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department	<u> </u>	I						
Annual electricity consumption AEC 1379 kWh Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Mettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. Atsushi EDAYOSHI Manager, Quality Assuarance Department	•		1	ı	Water heating energy efficiency	ηwh	126	%
Contact details MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department				1				
MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD. Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K. The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department		AEC	1379	kWh				
Atsushi EDAYOSHI The signature is signed in the average climate / medium-temperature section. Atsushi EDAYOSHI Manager, Quality Assuarance Department		NING SYST	EM EUROPE	Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	54 5EQ, Scotl	and, U.K.	
The signature is signed in the average climate / medium-temperature section. Manager, Quality Assuarance Department	The identification and signature of the person	n empowere	ed to bind the	e supplier;				
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	The signature is signed in the average clim	ate / mediu	ıın-temperatı	ure section.				

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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-SHW140YHA(-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	ltem	Symbol	Value	Unit
Rated heat output (*)	Prated	15.5	kW	Seasonal space heating energy efficiency	ηs	209	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	15.5	kW	Tj = + 2 °C	COPd	2.74	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	10.0	kW	Tj = + 7 °C	COPd	4.56	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	7.2	kW	Tj = +12 °C	COPd	7.23	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	15.5	kW	Tj = bivalent temperature	COPd	2.74	-
Tj = operation limit temperature (***)	Pdh	15.5	kW	Tj = operation limit temperature (***)	COPd	2.74	-
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			ı	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		<u> </u>		
Other items				Dated six flavorate authoris		1 1	
Capacity control		variable	I	Rated air flow rate, outdoors	-	6000	m ³ /h
Sound power level, indoors/outdoors	L_{WA}	40 / 70	dBA				
Annual energy consumption	Q _{HE}	3914	kWh				
For heat pump combination heater:						 	
Declared load profile		XL	I	Water heating energy efficiency	ηwh	126	%
Daily electricity consumption	Qelec	6.270	kWh				
Annual electricity consumption	AEC	1379	kWh				
Contact details MITSUBISHI ELECTRIC AIR CODITIO	NING SYSTI	EM EUROPE	LTD.	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;				
The signature is signed in the average clim	ate / mediu	m-temperatu	ure section.	Atsushi EDAYOSHI Manager, Quality Assuarance Department			
				UNITED KINGDOM			

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	15.8	kW	Seasonal space heating energy efficiency	ηs	128	%		
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	14.0	kW	Tj = - 7 °C	COPd	1.84	-		
Degradation co-efficient (**)	Cdh	1.00] -				•		
Tj = + 2 °C	Pdh	8.5	kW	Tj = + 2 °C	COPd	3.10	-		
Degradation co-efficient (**)	Cdh	0.99	-						
Tj = + 7 °C	Pdh	5.5	kW	Tj = + 7 °C	COPd	4.67	-		
Degradation co-efficient (**)	Cdh	0.98	-						
Tj = +12 °C	Pdh	7.0	kW	Tj = +12 °C	COPd	6.62	-		
Degradation co-efficient (**)	Cdh	0.98	-						
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.84	-		
Tj = operation limit temperature (***)	Pdh	13.9	kW	Tj = operation limit temperature (***)	COPd	1.83	-		
			•						
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	1.9	kW		
Thermostat-off mode	P_{TO}	0.022	kW						
Standby mode	P_SB	0.022	kW	Type of energy input		Electrical			
Crankcase heater mode	P _{CK}	0.000	kW						
Other items									
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h		
Sound power level, indoors/outdoors	L_WA	40 / 70	dBA						
Annual energy consumption	Q_{HE}	9973	kWh						
For heat pump combination heater:									
Declared load profile		XL		Water heating energy efficiency	ηwh	118	%		
Daily electricity consumption	Qelec	6.710	kWh						
Annual electricity consumption	AEC	1476	kWh						
Contact details									
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Li	/ingston, EH	54 5EQ, Scot	land, U.K.		
The identification and signature of the person	n empowere	u to bind the	supplier:						

Atsushi EDAYOSHI

Manager, Quality Assuarance Department

UNITED KINGDOM

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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-SHW140YHA(-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	17.0	kW	Seasonal space heating energy efficiency	ηѕ	165	%
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio f	or	
temperature 20 °C and outdoor temperature	Гј			part load at indoor temperature 20 °C and outdo	or temperatu	ıre Tj	
Tj = - 7 °C	Pdh	15.0	kW	Tj = - 7 °C	COPd	2.59	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	9.1	kW	Tj = + 2 °C	COPd	4.03	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.9	kW	Tj = + 7 °C	COPd	5.71	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	7.3	kW	Tj = +12 °C	COPd	7.47	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	15.0	kW	Tj = bivalent temperature	COPd	2.59	-
Tj = operation limit temperature (***)	Pdh	14.1	kW	Tj = operation limit temperature (***)	COPd	2.42	-
			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	2.9	kW
Thermostat-off mode	P_{TO}	0.022	kW				
Standby mode	P_SB	0.022	kW	Type of energy input		Electrical	
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h
Sound power level, indoors/outdoors	L_WA	40 / 70	dBA				
Annual energy consumption	Q_{HE}	8344	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	118	%
Daily electricity consumption	Qelec	6.710	kWh				
Annual electricity consumption	AEC	1476	kWh				
Contact details	NINO OVOT	EM EUDODE	LTD	Namabili Danid Harrison / 1 11 15 1 1 1 1	danates Etc	IE4 EEO O	
MITSUBISHI ELECTRIC AIR CODITION The identification and signature of the person				Nettlehill Road, Houston Industrial Estate, Li	vingston, EH	154 5EQ, SC0tl	anu, U.K.
The lactification and signature of the person	. cmpowere	to bille the	Juppliel,	Atsushi EDAYOSHI			
The signature is signed in the average clim	ate / mediu	ım-temperatı	ure section.	Manager, Quality Assuarance Department			
				UNITED KINGDOM			

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

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

Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	15.8	kW	Seasonal space heating energy efficiency	ηs	122	%	
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 temperature Tj $Tj = -7 \text{ °C} \qquad \qquad COPd \qquad \boxed{2.76} \qquad -$ $Tj = +2 \text{ °C} \qquad \qquad COPd \qquad \boxed{3.75} \qquad -$ $Tj = +7 \text{ °C} \qquad \qquad COPd \qquad \boxed{5.00} \qquad -$ $Tj = +12 \text{ °C} \qquad \qquad COPd \qquad \boxed{6.66} \qquad -$				
Tj = - 7 °C	Pdh	9.6	kW	Tj = - 7 °C	COPd	2.76	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 2 °C	Pdh	5.8	kW	Tj = + 2 °C	COPd	3.75	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = + 7 °C	Pdh	4.2	kW	Tj = + 7 °C	COPd	5.00	-	
Degradation co-efficient (**)	Cdh	0.97	-					
Tj = +12 °C	Pdh	7.1	kW	Tj = +12 °C	COPd	6.66	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = bivalent temperature	Pdh	13.3	kW	Tj = bivalent temperature	COPd	1.43	-	
Tj = operation limit temperature (***)	Pdh	11.2	kW	Tj = operation limit temperature (***)	COPd	1.43	-	
Tj = -15 °C (if TOL < -20 °C)	Pdh	12.9	kW	Tj = - 15 °C (if TOL < -20 °C)	COPd	1.56	-	
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	4.6	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	-	6000	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 70	dBA					
Annual energy consumption	Q_{HE}	12491	kWh					
For heat pump combination heater:								
Declared load profile		XL		Water heating energy efficiency	ηwh	91	%	
Daily electricity consumption	Qelec	8.640	kWh					
Annual electricity consumption	AEC	1901	kWh					
Contact details								
MITSUBISHI ELECTRIC AIR CODITIO				Nettlehill Road, Houston Industrial Estate, Liv	vingston, EH	54 5EQ, Scotl	and, U.K.	
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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-SHW140YHA(-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	17.0	kW	Seasonal space heating energy efficiency	ηs	150	%			
Declared capacity for heating for part load a	t indoor		!		nergy ratio fo	or				
temperature 20 °C and outdoor temperature	Гј			Seasonal space heating						
Tj = - 7 °C	Pdh	10.3	kW	Tj = - 7 °C	COPd	3.18	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 2 °C	Pdh	6.3	kW	Tj = + 2 °C	COPd	4.75	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = + 7 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	6.01	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = +12 °C	Pdh	7.3	kW	Tj = +12 °C	COPd	7.47	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	14.3	kW	Tj = bivalent temperature	COPd	2.00	-			
Tj = operation limit temperature (***)	Pdh	11.7	kW	Tj = operation limit temperature (***)	COPd	1.72	-			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	13.9	kW	Tj = - 15 °C (if TOL < -20 °C)	COPd	2.12	-			
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	5.3	kW			
Thermostat-off mode	P_{TO}	0.022	kW							
Standby mode	P_{SB}	0.022	kW	Type of energy input		Electrical				
Crankcase heater mode	P_{CK}	0.000	kW							
Other items										
Capacity control		variable		Rated air flow rate, outdoors	-	6000	m³/h			
Sound power level, indoors/outdoors	L _{WA}	40 / 70	dBA							
Annual energy consumption	Q_{HE}	10938	kWh							
For heat pump combination heater:										
Declared load profile		XL		Water heating energy efficiency	ηwh	91	%			
Daily electricity consumption	Qelec	8.640	kWh							
Annual electricity consumption	AEC	1901	kWh							
Contact details										
MITSUBISHI ELECTRIC AIR CODITION				Nettlehill Road, Houston Industrial Estate, Liv	/ingston, EH	54 5EQ, Scotl	and, U.K.			
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Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	14.0	kW	Seasonal space heating energy efficiency	ηs	154	%
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	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-				
Tj = + 2 °C	Pdh	14.0	kW	Tj = + 2 °C	COPd	1.92	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 7 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	3.12	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	6.8	kW	Tj = +12 °C	COPd	5.60	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	14.0	kW	Tj = bivalent temperature	COPd	1.92	-
Tj = operation limit temperature (***)	Pdh	14.0	kW	Tj = operation limit temperature (***)	COPd	1.92	-
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	-	6000	m³/h
Sound power level, indoors/outdoors	L _{WA}	40 / 70	dBA				
Annual energy consumption	Q_{HE}	4750	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	ηwh	126	%
Daily electricity consumption	Qelec	6.270	kWh				
Annual electricity consumption	AEC	1379	kWh				
Contact details							
MITSUBISHI ELECTRIC AIR CODITION				Nettlehill Road, Houston Industrial Estate, Liv	/ingston, EH	54 5EQ, Scotl	and, U.K.
The identification and signature of the persor	n empowere	ed to bind the	e supplier;	Atsushi EDAYOSHI			
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				UNITED KINGDOM			

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

Model(s):		Outdoor unit	:	PUHZ-SHW140YHA(-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	15.5	kW	Seasonal space heating energy efficiency	ηs	211	%	
Declared capacity for heating for part load a	t indoor	•		Declared coefficient of performance or primary e	nergy ratio f	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	-	kW	Tj = - 7 °C	COPd	-	-	
Degradation co-efficient (**)	Cdh	-	-					
Tj = + 2 °C	Pdh	15.5	kW	Tj = + 2 °C	COPd	2.74	-	
Degradation co-efficient (**)	Cdh	1.00	-					
Tj = + 7 °C	Pdh	10.0	kW	Tj = + 7 °C	COPd	4.56	-	
Degradation co-efficient (**)	Cdh	0.99	-					
Tj = +12 °C	Pdh	7.2	kW	Tj = +12 °C	COPd	7.04	-	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = bivalent temperature	Pdh	15.5	kW	Tj = bivalent temperature	COPd	2.74	-	
Tj = operation limit temperature (***)	Pdh	15.5	kW	Tj = operation limit temperature (***)	COPd	2.74	-	
			•					
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-28	°C	
Reference design conditions for space	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C	
heating 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			Į į		
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	-	6000	m³/h	
Sound power level, indoors/outdoors	L _{WA}	40 / 70	dBA					
Annual energy consumption	Q_{HE}	3864	kWh					
For heat pump combination heater:								
Declared load profile		XL		Water heating energy efficiency	ηwh	126	%	
Daily electricity consumption	Qelec	6.270	kWh					
Annual electricity consumption	AEC	1379	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 empowered to bind the supplier;								
The signature is signed in the average climate / medium-temperature section.				Atsushi EDAYOSHI Manager, Quality Assuarance Department				
The agricult is agricultiful average climate / medium-temperature section.				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

^(**) 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.