



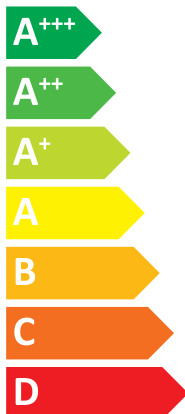
ENERG

енергия · ενέργεια

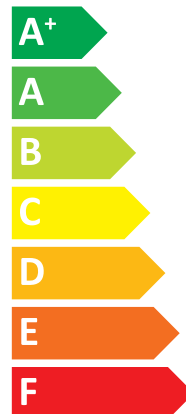
Y IJA
IE IA



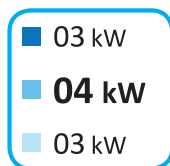
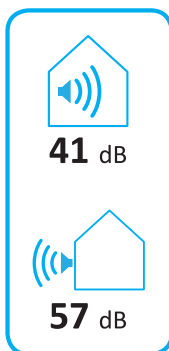
Indoor unit E*ST17/20D-****D
Outdoor unit SUZ-SWM30VA



A⁺⁺



A⁺



PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST17D-****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	3.6	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.2	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.13	-
Tj = + 2 °C	Pdh	2.0	kW	Tj = + 7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.17	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.74	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.74	-
Tj = +12 °C	Pdh	2.0	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.6	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Other items			
Off mode	P _{OFF}	0.010	kW	Capacity control	variable		
Thermostat-off mode	P _{TO}	0.010	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)
Standby mode	P _{SB}	0.010	kW	Annual energy consumption	Q _{HE}	2230	kWh
Crankcase heater mode	P _{CK}	0.000	kW	Rated air flow rate, outdoors	-	1680	m ³ /h

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	147	%
Daily electricity consumption	Qelec	3.530	kWh				
Annual electricity consumption	AEC	776	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

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



Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST17D-****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	4.0	kW	Seasonal space heating energy efficiency	η_s	191	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.6	kW	Tj = - 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.63	-
Tj = + 2 °C	Pdh	2.2	kW	Tj = + 7 °C	COPd	6.51	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.28	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	2.79	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.79	-
Tj = +12 °C	Pdh	2.4	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				1706			
				kWh			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	147	%
Daily electricity consumption	Qelec	3.530	kWh				
Annual electricity consumption	AEC	776	kWh				

Contact details

MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

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

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

Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST17D-****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	3.4	kW	Seasonal space heating energy efficiency	η_s	112	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.1	kW	Tj = - 7 °C	COPd	2.48	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.39	-
Tj = + 2 °C	Pdh	1.8	kW	Tj = + 7 °C	COPd	4.84	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.14	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.78	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.60	-
Tj = +12 °C	Pdh	2.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.78	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.1	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.8	kW	Rated heat output (*)	Psup	3.4	kW
Bivalent temperature	Tbiv	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)				
Annual energy consumption	Q _{HE}	2916	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	121	%	
Daily electricity consumption	Q _{elec}	4.030	kWh				
Annual electricity consumption	AEC	886	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST17D-****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	3.2	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.3	kW	Tj = - 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.37	-
Tj = + 2 °C	Pdh	1.9	kW	Tj = + 7 °C	COPd	5.85	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.14	-
Tj = + 7 °C	Pdh	2.3	kW	Tj = bivalent temperature	COPd	2.46	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.92	-
Tj = +12 °C	Pdh	2.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.46	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.6	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	2.9	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.6	kW	Rated heat output (*)	Psup	0.3	kW
Bivalent temperature	Tbiv	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)				
Annual energy consumption	Q _{HE}	2077	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	121	%	
Daily electricity consumption	Q _{elec}	4.030	kWh				
Annual electricity consumption	AEC	886	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST17D-****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	3.0	kW	Seasonal space heating energy efficiency	η_s	168	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	2.47	-
T _j = + 2 °C	P _{dh}	3.0	kW	T _j = + 7 °C	COP _d	3.60	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.44	-
T _j = + 7 °C	P _{dh}	2.1	kW	T _j = bivalent temperature	COP _d	2.47	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	2.47	-
T _j = +12 °C	P _{dh}	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	C _{dh}	0.97	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{dh}	3.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{dh}	3.0	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.010	kW	Thermostat-off mode	P _{TO}	0.010	kW
Thermostat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.010	kW
Standby mode	P _{SB}	0.010	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				1680			
L _{WA}				m ³ /h			
41 / 57							
Annual energy consumption							
Q _{HE}							
937							
kWh							
For heat pump combination heater:				Declared load profile			
L				Water heating energy efficiency			
				η_{wh}			
Daily electricity consumption				169			
Q _{elec}				%			
3.220							
Annual electricity consumption							
AEC							
709							
kWh							

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO			
				Manager, Quality Assurance Department			
				THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST17D-****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	3.0	kW	Seasonal space heating energy efficiency	η_s	235	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	3.91	-
Tj = + 2 °C	Pdh	3.0	kW	Tj = + 7 °C	COPd	5.96	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.86	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	3.91	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.91	-
Tj = +12 °C	Pdh	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				675			
				kWh			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	169	%
Daily electricity consumption	Qelec	3.220	kWh				
Annual electricity consumption	AEC	709	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
				Tadashi SAITO			
The signature is signed in the average climate / medium-temperature section.				Manager, Quality Assurance Department			
				THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-****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	3.6	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.2	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.13	-
Tj = + 2 °C	Pdh	2.0	kW	Tj = + 7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.17	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.74	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.74	-
Tj = +12 °C	Pdh	2.0	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.6	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control	variable		
Standby mode	P _{SB}	0.010	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)
Crankcase heater mode	P _{CK}	0.000	kW	Annual energy consumption	Q _{HE}	2230	kWh

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	147	%	
Daily electricity consumption	Qelec	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

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



Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-****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	4.0	kW	Seasonal space heating energy efficiency	η_s	191	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.6	kW	Tj = - 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.63	-
Tj = + 2 °C	Pdh	2.2	kW	Tj = + 7 °C	COPd	6.51	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.28	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	2.79	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.79	-
Tj = +12 °C	Pdh	2.4	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				1706			
				kWh			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	147	%
Daily electricity consumption	Qelec	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-****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	3.4	kW	Seasonal space heating energy efficiency	η_s	112	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.1	kW	Tj = - 7 °C	COPd	2.48	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.39	-
Tj = + 2 °C	Pdh	1.8	kW	Tj = + 7 °C	COPd	4.84	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.14	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.78	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.60	-
Tj = +12 °C	Pdh	2.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.78	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.1	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.8	kW	Rated heat output (*)	Psup	3.4	kW
Bivalent temperature	Tbiv	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.010	kW	Thermostat-off mode	P _{TO}	0.010	kW
Thermostat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.010	kW
Standby mode	P _{SB}	0.010	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				1680			
L _{WA}				m ³ /h			
41 / 57							
Annual energy consumption							
Q _{HE}							
2916							
kWh							
For heat pump combination heater:				Declared load profile			
L				Water heating energy efficiency			
Daily electricity consumption				η_{wh}			
Q _{elec}				127			
4.020				%			
Annual electricity consumption							
AEC							
883							
kWh							

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-****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	3.2	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.3	kW	T _j = - 7 °C	COP _d	3.40	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.37	-
T _j = + 2 °C	P _{dh}	1.9	kW	T _j = + 7 °C	COP _d	5.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.14	-
T _j = + 7 °C	P _{dh}	2.3	kW	T _j = bivalent temperature	COP _d	2.46	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.92	-
T _j = +12 °C	P _{dh}	2.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.46	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	2.6	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	2.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	2.6	kW	Rated heat output (*)	P _{sup}	0.3	kW
Bivalent temperature	T _{biv}	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.010	kW	Thermostat-off mode	P _{TO}	0.010	kW
Thermostat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.010	kW
Standby mode	P _{SB}	0.010	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				1680			
L _{WA}				m ³ /h			
41 / 57							
Annual energy consumption							
Q _{HE}							
2077							
kWh							
For heat pump combination heater:				Declared load profile			
L				Water heating energy efficiency			
Daily electricity consumption				η_{wh}			
Q _{elec}				127			
4.020				%			
kWh							
Annual electricity consumption							
AEC							
883							
kWh							

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-****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	3.0	kW	Seasonal space heating energy efficiency	η_s	168	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	2.47	-
Tj = + 2 °C	Pdh	3.0	kW	Tj = + 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.44	-
Tj = + 7 °C	Pdh	2.1	kW	Tj = bivalent temperature	COPd	2.47	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.47	-
Tj = +12 °C	Pdh	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.010	kW	Thermostat-off mode	P _{TO}	0.010	kW
Thermostat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.010	kW
Standby mode	P _{SB}	0.010	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				1680			
L _{WA}				m ³ /h			
41 / 57							
Annual energy consumption							
Q _{HE}							
937							
kWh							
For heat pump combination heater:				Declared load profile			
L				Water heating energy efficiency			
				η_{wh}			
Daily electricity consumption				173			
Q _{elec}				%			
3.250							
Annual electricity consumption							
AEC							
714							
kWh							

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO			
				Manager, Quality Assurance Department			
				THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-****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	3.0	kW	Seasonal space heating energy efficiency	η_s	235	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	3.91	-
Tj = + 2 °C	Pdh	3.0	kW	Tj = + 7 °C	COPd	5.96	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.86	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	3.91	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.91	-
Tj = +12 °C	Pdh	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				675			
				kWh			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	173	%
Daily electricity consumption	Qelec	3.250	kWh				
Annual electricity consumption	AEC	714	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
				Tadashi SAITO			
				Manager, Quality Assurance Department			
				THAILAND			
The signature is signed in the average climate / medium-temperature section.							

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-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	3.6	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.2	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.13	-
Tj = + 2 °C	Pdh	2.0	kW	Tj = + 7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.17	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.74	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.74	-
Tj = +12 °C	Pdh	2.0	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.6	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.010	kW	Thermostat-off mode	P _{TO}	0.010	kW
Thermostat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.010	kW
Standby mode	P _{SB}	0.010	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				1680			
L _{WA}				m ³ /h			
41 / 57							
Annual energy consumption							
Q _{HE}							
2230							
kWh							
For heat pump combination heater:				Declared load profile			
L				Water heating energy efficiency			
				η_{wh}			
Daily electricity consumption				147			
Q _{elec}				%			
3.730							
Annual electricity consumption							
AEC							
821							
kWh							

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier:							

Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-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	4.0	kW	Seasonal space heating energy efficiency	η_s	191	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.6	kW	Tj = - 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.63	-
Tj = + 2 °C	Pdh	2.2	kW	Tj = + 7 °C	COPd	6.51	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.28	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	2.79	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.79	-
Tj = +12 °C	Pdh	2.4	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.010	kW	Thermostat-off mode	P _{TO}	0.010	kW
Thermostat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.010	kW
Standby mode	P _{SB}	0.010	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				1680			
L _{WA}				m ³ /h			
41 / 57							
Annual energy consumption							
Q _{HE}							
1706							
kWh							
For heat pump combination heater:				Declared load profile			
L				Water heating energy efficiency			
Daily electricity consumption				η_{wh}			
Q _{elec}				147			
3.730				%			
Annual electricity consumption							
AEC							
821							
kWh							

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-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	3.4	kW	Seasonal space heating energy efficiency	η_s	112	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.1	kW	Tj = - 7 °C	COPd	2.48	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.39	-
Tj = + 2 °C	Pdh	1.8	kW	Tj = + 7 °C	COPd	4.84	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.14	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.78	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.60	-
Tj = +12 °C	Pdh	2.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.78	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.1	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.8	kW	Rated heat output (*)	Psup	3.4	kW
Bivalent temperature	Tbiv	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)				
Annual energy consumption	Q _{HE}	2916	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	127	%	
Daily electricity consumption	Q _{elec}	4.020	kWh				
Annual electricity consumption	AEC	883	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-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	3.2	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.3	kW	T _j = - 7 °C	COP _d	3.40	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.37	-
T _j = + 2 °C	P _{dh}	1.9	kW	T _j = + 7 °C	COP _d	5.85	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	8.14	-
T _j = + 7 °C	P _{dh}	2.3	kW	T _j = bivalent temperature	COP _d	2.46	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.92	-
T _j = +12 °C	P _{dh}	2.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.46	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	2.6	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	2.9	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	2.6	kW	Rated heat output (*)	P _{sup}	0.3	kW
Bivalent temperature	T _{biv}	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Other items			
Off mode	P _{OFF}	0.010	kW	Capacity control	variable		
Thermostat-off mode	P _{TO}	0.010	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)
Standby mode	P _{SB}	0.010	kW	Annual energy consumption	Q _{HE}	2077	kWh
Crankcase heater mode	P _{CK}	0.000	kW	Rated air flow rate, outdoors	-	1680	m ³ /h

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	127	%
Daily electricity consumption	Q _{elec}	4.020	kWh				
Annual electricity consumption	AEC	883	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-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	3.0	kW	Seasonal space heating energy efficiency	η_s	168	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	2.47	-
T _j = + 2 °C	P _{dh}	3.0	kW	T _j = + 7 °C	COP _d	3.60	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.44	-
T _j = + 7 °C	P _{dh}	2.1	kW	T _j = bivalent temperature	COP _d	2.47	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	2.47	-
T _j = +12 °C	P _{dh}	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	C _{dh}	0.97	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{dh}	3.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{dh}	3.0	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}	0.010	kW	
Thermostat-off mode				P _{TO}	0.010	kW	
Standby mode				P _{SB}	0.010	kW	
Crankcase heater mode				P _{CK}	0.000	kW	
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)				
Annual energy consumption	Q _{HE}	937	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	173	%
Daily electricity consumption	Q _{elec}	3.250	kWh				
Annual electricity consumption	AEC	714	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

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

Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	EHST20D-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	3.0	kW	Seasonal space heating energy efficiency	η_s	235	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	3.91	-
Tj = + 2 °C	Pdh	3.0	kW	Tj = + 7 °C	COPd	5.96	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.86	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	3.91	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.91	-
Tj = +12 °C	Pdh	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				675			
				kWh			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	173	%
Daily electricity consumption	Qelec	3.250	kWh				
Annual electricity consumption	AEC	714	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST17D-****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	3.6	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.2	kW	Tj = - 7 °C	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.13	-
Tj = + 2 °C	Pdh	2.0	kW	Tj = + 7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.17	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.74	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.74	-
Tj = +12 °C	Pdh	2.0	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.6	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control	variable		
Standby mode	P _{SB}	0.010	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)
Crankcase heater mode	P _{CK}	0.000	kW	Annual energy consumption	Q _{HE}	2193	kWh

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	147	%	
Daily electricity consumption	Qelec	3.530	kWh				
Annual electricity consumption	AEC	776	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

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



Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST17D-****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	4.0	kW	Seasonal space heating energy efficiency	η_s	195	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.6	kW	Tj = - 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.63	-
Tj = + 2 °C	Pdh	2.2	kW	Tj = + 7 °C	COPd	6.51	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.28	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	2.79	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.79	-
Tj = +12 °C	Pdh	2.4	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				1670			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	147	%
Daily electricity consumption	Qelec	3.530	kWh				
Annual electricity consumption	AEC	776	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST17D-****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	3.4	kW	Seasonal space heating energy efficiency	η_s	113	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.1	kW	Tj = - 7 °C	COPd	2.48	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.39	-
Tj = + 2 °C	Pdh	1.8	kW	Tj = + 7 °C	COPd	4.84	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.14	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.78	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.60	-
Tj = +12 °C	Pdh	2.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.78	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.8	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.1	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.8	kW	Rated heat output (*)	Psup	3.4	kW
Bivalent temperature	Tbiv	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)				
Annual energy consumption	Q _{HE}	2894	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	121	%	
Daily electricity consumption	Q _{elec}	4.030	kWh				
Annual electricity consumption	AEC	886	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST17D-****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	3.2	kW	Seasonal space heating energy efficiency	η_s	151	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.3	kW	Tj = - 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.37	-
Tj = + 2 °C	Pdh	1.9	kW	Tj = + 7 °C	COPd	5.85	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.14	-
Tj = + 7 °C	Pdh	2.3	kW	Tj = bivalent temperature	COPd	2.46	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.92	-
Tj = +12 °C	Pdh	2.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.46	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.6	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	2.9	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.6	kW	Rated heat output (*)	Psup	0.3	kW
Bivalent temperature	Tbiv	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)				
Annual energy consumption	Q _{HE}	2055	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	121	%	
Daily electricity consumption	Q _{elec}	4.030	kWh				
Annual electricity consumption	AEC	886	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST17D-****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	3.0	kW	Seasonal space heating energy efficiency	η_s	177	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	2.47	-
Tj = + 2 °C	Pdh	3.0	kW	Tj = + 7 °C	COPd	3.60	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.44	-
Tj = + 7 °C	Pdh	2.1	kW	Tj = bivalent temperature	COPd	2.47	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.47	-
Tj = +12 °C	Pdh	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				893			
				kWh			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	169	%
Daily electricity consumption	Qelec	3.220	kWh				
Annual electricity consumption	AEC	709	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST17D-****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	3.0	kW	Seasonal space heating energy efficiency	η_s	251	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	3.91	-
T _j = + 2 °C	P _{dh}	3.0	kW	T _j = + 7 °C	COP _d	5.96	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	7.86	-
T _j = + 7 °C	P _{dh}	2.4	kW	T _j = bivalent temperature	COP _d	3.91	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	3.91	-
T _j = +12 °C	P _{dh}	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	C _{dh}	0.97	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{dh}	3.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{dh}	3.0	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Capacity control				variable			
Sound power level, indoors/outdoors				L _{WA}			
Annual energy consumption				Q _{HE}			
Rated air flow rate, outdoors				-			
Rated air flow rate, outdoors				1680			
Rated air flow rate, outdoors				m ³ /h			

Other items							
Capacity control				variable			
Sound power level, indoors/outdoors				L _{WA}			
Annual energy consumption				Q _{HE}			
Rated air flow rate, outdoors				-			
Rated air flow rate, outdoors				1680			
Rated air flow rate, outdoors				m ³ /h			

For heat pump combination heater:							
Declared load profile				L			
Daily electricity consumption				Q _{elec}			
Annual electricity consumption				AEC			
Water heating energy efficiency				η_{wh}			
Water heating energy efficiency				169			
Water heating energy efficiency				%			

Contact details

MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 The signature is signed in the average climate / medium-temperature section.
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST20D-****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	3.6	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	3.2	kW	T _j = - 7 °C	COP _d	2.27	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.13	-
T _j = + 2 °C	P _{dh}	2.0	kW	T _j = + 7 °C	COP _d	4.53	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.17	-
T _j = + 7 °C	P _{dh}	2.2	kW	T _j = bivalent temperature	COP _d	1.74	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.74	-
T _j = +12 °C	P _{dh}	2.0	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	C _{dh}	0.96	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{dh}	3.6	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{dh}	3.6	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-10	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW	-	1680	m ³ /h	
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				2193			
				kWh			
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile				η_{wh}			
L				147			
Daily electricity consumption				%			
Q _{elec}							
3.730							
Annual electricity consumption							
AEC							
821							
kWh							

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier:							



Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST20D-****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	4.0	kW	Seasonal space heating energy efficiency	η_s	195	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.6	kW	Tj = - 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.63	-
Tj = + 2 °C	Pdh	2.2	kW	Tj = + 7 °C	COPd	6.51	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.28	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	2.79	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.79	-
Tj = +12 °C	Pdh	2.4	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				1670			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	147	%
Daily electricity consumption	Qelec	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST20D-****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	3.4	kW	Seasonal space heating energy efficiency	η_s	113	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	2.1	kW	T _j = - 7 °C	COP _d	2.48	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.39	-
T _j = + 2 °C	P _{dh}	1.8	kW	T _j = + 7 °C	COP _d	4.84	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.14	-
T _j = + 7 °C	P _{dh}	2.2	kW	T _j = bivalent temperature	COP _d	1.78	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.60	-
T _j = +12 °C	P _{dh}	2.3	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.78	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	2.8	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	3.1	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	2.8	kW	Rated heat output (*)	P _{sup}	3.4	kW
Bivalent temperature	T _{biv}	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-22	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control	variable		
Standby mode	P _{SB}	0.010	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)
Crankcase heater mode	P _{CK}	0.000	kW	Annual energy consumption	Q _{HE}	2894	kWh

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	127	%	
Daily electricity consumption	Q _{elec}	4.020	kWh				
Annual electricity consumption	AEC	883	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 The signature is signed in the average climate / medium-temperature section.

Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST20D-****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	3.2	kW	Seasonal space heating energy efficiency	η_s	151	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.3	kW	Tj = - 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.37	-
Tj = + 2 °C	Pdh	1.9	kW	Tj = + 7 °C	COPd	5.85	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.14	-
Tj = + 7 °C	Pdh	2.3	kW	Tj = bivalent temperature	COPd	2.46	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.92	-
Tj = +12 °C	Pdh	2.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.46	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.6	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	2.9	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.6	kW	Rated heat output (*)	Psup	0.3	kW
Bivalent temperature	Tbiv	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 57	dB(A)				
Annual energy consumption	Q _{HE}	2055	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	127	%	
Daily electricity consumption	Q _{elec}	4.020	kWh				
Annual electricity consumption	AEC	883	kWh				

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO Manager, Quality Assurance Department THAILAND			

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST20D-****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	3.0	kW	Seasonal space heating energy efficiency	η_s	177	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-	T _j = + 2 °C	COP _d	2.47	-
T _j = + 2 °C	P _{dh}	3.0	kW	T _j = + 7 °C	COP _d	3.60	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = +12 °C	COP _d	6.44	-
T _j = + 7 °C	P _{dh}	2.1	kW	T _j = bivalent temperature	COP _d	2.47	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	2.47	-
T _j = +12 °C	P _{dh}	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	C _{dh}	0.97	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{dh}	3.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{dh}	3.0	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.010	kW	Thermostat-off mode	P _{TO}	0.010	kW
Thermostat-off mode	P _{TO}	0.010	kW	Standby mode	P _{SB}	0.010	kW
Standby mode	P _{SB}	0.010	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				1680			
L _{WA}				m ³ /h			
41 / 57							
Annual energy consumption							
Q _{HE}							
893							
kWh							
For heat pump combination heater:				Declared load profile			
L				Water heating energy efficiency			
Daily electricity consumption				η_{wh}			
Q _{elec}				173			
3.250				%			
Annual electricity consumption							
AEC							
714							
kWh							

Contact details							
MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD.				700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand			
The identification and signature of the person empowered to bind the supplier;							
The signature is signed in the average climate / medium-temperature section.				Tadashi SAITO			
				Manager, Quality Assurance Department			
				THAILAND			

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

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

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM30VA
	Indoor unit:	ERST20D-****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	3.0	kW	Seasonal space heating energy efficiency	η_s	251	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	3.91	-
Tj = + 2 °C	Pdh	3.0	kW	Tj = + 7 °C	COPd	5.96	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.86	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	3.91	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.91	-
Tj = +12 °C	Pdh	2.3	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	3.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	3.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.010	kW			1680	m ³ /h
Thermostat-off mode	P _{TO}	0.010	kW	Capacity control			
Standby mode	P _{SB}	0.010	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 57			
				Annual energy consumption			
				Q _{HE}			
				630			
				kWh			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	173	%
Daily electricity consumption	Qelec	3.250	kWh				
Annual electricity consumption	AEC	714	kWh				

Contact details
 MITSUBISHI ELECTRIC CONSUMER PRODUCTS (THAILAND) CO., LTD. 700/406 moo 7, Tambon don hua roh, Amphur muang, chonburi 20000, Thailand

The identification and signature of the person empowered to bind the supplier;
 Tadashi SAITO
 Manager, Quality Assurance Department
 THAILAND

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

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