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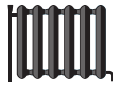
IE IA



Indoor unit

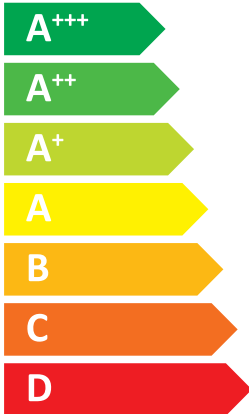
EHSD-\*\*\*\*D

Outdoor unit SUZ-SHWM30VAH



55 °C

35 °C



**A+**

**A+++**



**41** dB



**57** dB

■ 04

■ **04**

■ 03

kW

■ 04

■ **04**

■ 03

kW



2019

811/2013

Table 1: SPACE HEATER. Columns include Outdoor unit, Indoor unit, and various performance metrics (A++ to A) for medium-temperature and low-temperature applications.

Table 2: COMBINATION HEATER. Columns include Outdoor unit, Indoor unit, and various performance metrics (L, A++ to A) for medium-temperature and low-temperature applications.



PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.6	kW	Seasonal space heating energy efficiency	$\eta_s$	124	%
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	2.18	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	2.87	-
Tj = + 2 °C	Pdh	2.0	kW	Tj = + 7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.17	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.69	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.69	-
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 <sub>OFF</sub>	0.010	kW	Capacity control	variable		
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 57	dB(A)
Standby mode	P <sub>SB</sub>	0.010	kW	Annual energy consumption	Q <sub>HE</sub>	2347	kWh
Crankcase heater mode	P <sub>CK</sub>	0.000	kW	Rated air flow rate, outdoors	-	1680	m <sup>3</sup> /h

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			$\eta_{wh}$	-	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	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-SHWM30VAH
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.0	kW	Seasonal space heating energy efficiency	$\eta_s$	180	%
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	3.23	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 °C	Pdh	2.2	kW	Tj = + 2 °C	COPd	4.19	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = + 7 °C	Pdh	2.4	kW	Tj = + 7 °C	COPd	6.62	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = +12 °C	Pdh	2.4	kW	Tj = +12 °C	COPd	9.51	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	4.0	kW	Tj = bivalent temperature	COPd	2.69	-
Tj = operation limit temperature (***)	Pdh	4.0	kW	Tj = operation limit temperature (***)	COPd	2.69	-
Bivalent temperature	Tbiv	-10	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.010	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Type of energy input	Electrical		
Standby mode	P <sub>SB</sub>	0.010	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	1680	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 57	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	1802	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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 (\*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).  
 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.6	kW	Seasonal space heating energy efficiency	$\eta_s$	104	%
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	2.31	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.05	-
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	1.70	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = +12 °C	Pdh	2.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.70	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.9	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.2	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.9	kW				
Bivalent temperature	Tbiv	-15	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.010	kW	Rated heat output (*)	P <sub>sup</sub>	3.6	kW
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Type of energy input	Electrical		
Standby mode	P <sub>SB</sub>	0.010	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control	variable					1680	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 57	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	3307	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-				$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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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			

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.6	kW	Seasonal space heating energy efficiency	$\eta_s$	138	%
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	3.14	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.91	-
Tj = + 2 °C	Pdh	1.9	kW	Tj = + 7 °C	COPd	5.94	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.32	-
Tj = + 7 °C	Pdh	2.3	kW	Tj = bivalent temperature	COPd	2.28	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.85	-
Tj = +12 °C	Pdh	2.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.28	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.9	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	2.9	kW	Rated heat output (*)	Psup	0.7	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				Other items			
Off mode	P <sub>OFF</sub>	0.010	kW	Capacity control	variable		
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 57	dB(A)
Standby mode	P <sub>SB</sub>	0.010	kW	Annual energy consumption	Q <sub>HE</sub>	2521	kWh
Crankcase heater mode	P <sub>CK</sub>	0.000	kW	Rated air flow rate, outdoors	-	1680	m <sup>3</sup> /h

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			$\eta_{wh}$	-	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.0	kW	Seasonal space heating energy efficiency	$\eta_s$	167	%
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	2.36	-
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	2.36	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.36	-
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			
Off mode				P <sub>OFF</sub>			
Thermostat-off mode				P <sub>TO</sub>			
Standby mode				P <sub>SB</sub>			
Crankcase heater mode				P <sub>CK</sub>			
Capacity control				variable			
Sound power level, indoors/outdoors				L <sub>WA</sub>			
Annual energy consumption				Q <sub>HE</sub>			
Rated air flow rate, outdoors				-			
Rated air flow rate, outdoors				1680			
Rated air flow rate, outdoors				m <sup>3</sup> /h			

Other items							
Declared load profile				-			
Daily electricity consumption				Q <sub>elec</sub>			
Annual electricity consumption				AEC			
Water heating energy efficiency				$\eta_{wh}$			
Water heating energy efficiency				-			
Water heating energy efficiency				%			

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.



**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.0	kW	Seasonal space heating energy efficiency	$\eta_s$	237	%
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	3.65	-
Tj = + 2 °C	Pdh	3.0	kW	Tj = + 7 °C	COPd	6.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	8.03	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	3.65	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.65	-
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 <sub>OFF</sub>	0.010	kW	Thermostat-off mode	P <sub>TO</sub>	0.010	kW
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Standby mode	P <sub>SB</sub>	0.010	kW
Standby mode	P <sub>SB</sub>	0.010	kW	Crankcase heater mode	P <sub>CK</sub>	0.000	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				L <sub>WA</sub>			
41 / 57				dBA			
Annual energy consumption				Q <sub>HE</sub>			
668				kWh			
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile				$\eta_{wh}$			
-				-			
Daily electricity consumption				Q <sub>elec</sub>			
-				kWh			
Annual electricity consumption				AEC			
-				kWh			

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.6	kW	Seasonal space heating energy efficiency	$\eta_s$	124	%
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	2.18	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +2 °C	COPd	2.87	-
Tj = +2 °C	Pdh	2.0	kW	Tj = +7 °C	COPd	4.53	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.17	-
Tj = +7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.69	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.69	-
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			
Off mode				P <sub>OFF</sub>			
Thermostat-off mode				P <sub>TO</sub>			
Standby mode				P <sub>SB</sub>			
Crankcase heater mode				P <sub>CK</sub>			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 57	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	2347	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	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

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.0	kW	Seasonal space heating energy efficiency	$\eta_s$	180	%
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	3.23	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.19	-
Tj = + 2 °C	Pdh	2.2	kW	Tj = + 7 °C	COPd	6.62	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.51	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	2.69	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.69	-
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 <sub>OFF</sub>	0.010	kW			1680	m <sup>3</sup> /h
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Capacity control			
Standby mode	P <sub>SB</sub>	0.010	kW	variable			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW	Sound power level, indoors/outdoors			
				L <sub>WA</sub>			
				41 / 57			
				Annual energy consumption			
				Q <sub>HE</sub>			
				1802			
				kWh			

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.6	kW	Seasonal space heating energy efficiency	$\eta_s$	104	%
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	2.31	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.05	-
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	1.70	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.54	-
Tj = +12 °C	Pdh	2.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.70	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	2.9	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.2	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	2.9	kW	Rated heat output (*)	Psup	3.6	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 <sub>OFF</sub>			
Thermostat-off mode				P <sub>TO</sub>			
Standby mode				P <sub>SB</sub>			
Crankcase heater mode				P <sub>CK</sub>			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1680	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 57	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	3307	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.6	kW	Seasonal space heating energy efficiency	$\eta_s$	138	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	2.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.14	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.91	-
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	1.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.94	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	8.32	-
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.28	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-	T <sub>j</sub> = operation limit temperature (***)	COP <sub>d</sub>	1.85	-
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	2.4	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	2.28	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-	Operation limit temperature	TOL	-25	°C
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	2.9	kW	Heating water operating limit temperature	WTOL	60	°C
T <sub>j</sub> = operation limit temperature (***)	P <sub>dh</sub>	2.9	kW	Supplementary heater			
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	2.9	kW	Rated heat output (*)	P <sub>sup</sub>	0.7	kW
Bivalent temperature	T <sub>biv</sub>	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T <sub>designh</sub>	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P <sub>OFF</sub>	0.010	kW	Thermostat-off mode	P <sub>TO</sub>	0.010	kW
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Standby mode	P <sub>SB</sub>	0.010	kW
Standby mode	P <sub>SB</sub>	0.010	kW	Crankcase heater mode	P <sub>CK</sub>	0.000	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 57	dB(A)	1680			
Annual energy consumption	Q <sub>HE</sub>	2521	kWh	m <sup>3</sup> /h			

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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 THAILAND

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.0	kW	Seasonal space heating energy efficiency	$\eta_s$	167	%
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	2.36	-
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	2.36	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.36	-
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 <sub>OFF</sub>	0.010	kW	Thermostat-off mode	P <sub>TO</sub>	0.010	kW
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Standby mode	P <sub>SB</sub>	0.010	kW
Standby mode	P <sub>SB</sub>	0.010	kW	Crankcase heater mode	P <sub>CK</sub>	0.000	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW	Other items			
Capacity control				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors				L <sub>WA</sub>			
41 / 57				dBA			
Annual energy consumption				Q <sub>HE</sub>			
940				kWh			

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

**PRODUCT INFORMATION / TECHNICAL DOCUMENTATION**

Model(s):	Outdoor unit:	SUZ-SHWM30VAH
	Indoor unit:	EHSD-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.0	kW	Seasonal space heating energy efficiency	$\eta_s$	237	%
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	3.65	-
Tj = + 2 °C	Pdh	3.0	kW	Tj = + 7 °C	COPd	6.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	8.03	-
Tj = + 7 °C	Pdh	2.4	kW	Tj = bivalent temperature	COPd	3.65	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.65	-
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 <sub>OFF</sub>	0.010	kW			1680	m <sup>3</sup> /h
Thermostat-off mode	P <sub>TO</sub>	0.010	kW	Capacity control			
Standby mode	P <sub>SB</sub>	0.010	kW	variable			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW	Sound power level, indoors/outdoors			
				L <sub>WA</sub>			
				41 / 57			
				Annual energy consumption			
				Q <sub>HE</sub>			
				668			
				kWh			

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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 (\*\*) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.  
 (\*\*\*) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.