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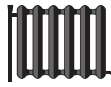
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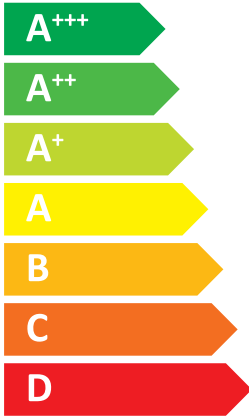


Indoor unit EHSD-****D
Outdoor unit SUZ-SHWM40VAH(-SC)



55 °C

35 °C



A+

A++



41 dB



58 dB

■ 05
■ **05**
■ 04
kW

■ 05
■ **05**
■ 04
kW



2019

811/2013

1. SPACE HEATER

Table with columns for Outdoor unit, Indoor unit, and various performance metrics (3-25) for medium-temperature and low-temperature applications. Rows include models like SUZ-SWM30VA, SUZ-SHM30VAH, etc.

2. COMBINATION HEATER

Large table with columns for Outdoor unit, Indoor unit, and various performance metrics (3-25) for medium-temperature and low-temperature applications. Rows include models like SUZ-SWM30VA, SUZ-SHM30VAH, etc.


PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SHWM40VAH(-SC)
	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	4.6	kW	Seasonal space heating energy efficiency	η_s	124	%
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}	4.1	kW	T _j = - 7 °C	COP _d	2.14	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	2.91	-
T _j = + 2 °C	P _{dh}	2.8	kW	T _j = + 7 °C	COP _d	4.62	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.16	-
T _j = + 7 °C	P _{dh}	2.6	kW	T _j = bivalent temperature	COP _d	1.66	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature (***)	COP _d	1.66	-
T _j = +12 °C	P _{dh}	3.0	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}	4.6	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{dh}	4.6	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				Capacity control			
Off mode	P _{OFF}	0.015	kW	variable			Rated air flow rate, outdoors
Thermostat-off mode	P _{TO}	0.015	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA
Standby mode	P _{SB}	0.015	kW	Annual energy consumption	Q _{HE}	2994	kWh
Crankcase heater mode	P _{CK}	0.000	kW	For heat pump combination heater:			
Other items				Declared load profile			
							Water heating energy efficiency
							η_{wh}
							-
							%

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	1810	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	2994	kWh				
For heat pump combination heater:				Declared load profile			
							Water heating energy efficiency
							η_{wh}
							-
							%

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-SHWM40VAH(-SC)
	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	5.0	kW	Seasonal space heating energy efficiency	η_s	172	%
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	4.5	kW	Tj = - 7 °C	COPd	2.57	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.29	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	10.44	-
Tj = + 7 °C	Pdh	3.0	kW	Tj = bivalent temperature	COPd	2.37	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.37	-
Tj = +12 °C	Pdh	3.4	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.95	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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}	0.015	kW	Thermostat-off mode	P _{TO}	0.015	kW
Thermostat-off mode	P _{TO}	0.015	kW	Standby mode	P _{SB}	0.015	kW
Standby mode	P _{SB}	0.015	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				L _{WA}			
41 / 58				41 / 58			
Annual energy consumption				Q _{HE}			
2366				2366			

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

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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-SHWM40VAH(-SC)
	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	5.0	kW	Seasonal space heating energy efficiency	η_s	102	%
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	2.26	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.16	-
Tj = + 2 °C	Pdh	2.8	kW	Tj = + 7 °C	COPd	4.76	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.81	-
Tj = + 7 °C	Pdh	3.0	kW	Tj = bivalent temperature	COPd	1.31	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.25	-
Tj = +12 °C	Pdh	3.3	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.31	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	4.1	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.7	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	4.1	kW	Rated heat output (*)	Psup	5.0	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 _{OFF}	0.015	kW	Capacity control	variable		
Thermostat-off mode	P _{TO}	0.015	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB(A)
Standby mode	P _{SB}	0.015	kW	Annual energy consumption	Q _{HE}	4711	kWh
Crankcase heater mode	P _{CK}	0.000	kW	Rated air flow rate, outdoors	-	1810	m ³ /h
Other items				For heat pump combination heater:			
Capacity control				Declared load profile			
Sound power level, indoors/outdoors				Daily electricity consumption			
Annual energy consumption				Annual electricity consumption			
Declared load profile				Water heating energy efficiency			
Daily electricity consumption							
Annual electricity consumption							

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	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-SHWM40VAH(-SC)
	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	5.0	kW	Seasonal space heating energy efficiency	η_s	145	%
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	3.1	kW	Tj = - 7 °C	COPd	3.27	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = + 2 °C	COPd	4.52	-
Tj = + 2 °C	Pdh	2.8	kW	Tj = + 7 °C	COPd	6.38	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.73	-
Tj = + 7 °C	Pdh	3.1	kW	Tj = bivalent temperature	COPd	1.86	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.80	-
Tj = +12 °C	Pdh	3.0	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.86	-
Degradation co-efficient (**)	Cdh	0.95	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	4.1	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.2	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	4.1	kW	Rated heat output (*)	Psup	0.8	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			-	1810	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB(A)				
Annual energy consumption	Q _{HE}	3328	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	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-SHWM40VAH(-SC)
	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	4.0	kW	Seasonal space heating energy efficiency	η_s	161	%
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	2.26	-
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.22	-
Tj = + 7 °C	Pdh	3.3	kW	Tj = bivalent temperature	COPd	2.26	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.26	-
Tj = +12 °C	Pdh	2.9	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	4.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.0	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				Other items			
Off mode	P _{OFF}	0.015	kW	Capacity control	variable		
Thermostat-off mode	P _{TO}	0.015	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB(A)
Standby mode	P _{SB}	0.015	kW	Annual energy consumption	Q _{HE}	1305	kWh
Crankcase heater mode	P _{CK}	0.000	kW	Rated air flow rate, outdoors	-	1810	m ³ /h

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{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-SHWM40VAH(-SC)
	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	4.0	kW	Seasonal space heating energy efficiency	η_s	242	%
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	3.58	-
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	5.49	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	9.75	-
Tj = + 7 °C	Pdh	3.4	kW	Tj = bivalent temperature	COPd	3.58	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.58	-
Tj = +12 °C	Pdh	3.3	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	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 _{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			-	1810	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB(A)				
Annual energy consumption	Q _{HE}	872	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	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-SHWM40VAH(-SC)
	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	4.6	kW	Seasonal space heating energy efficiency	η_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	4.1	kW	Tj = - 7 °C	COPd	2.14	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	2.91	-
Tj = + 2 °C	Pdh	2.8	kW	Tj = + 7 °C	COPd	4.62	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.16	-
Tj = + 7 °C	Pdh	2.6	kW	Tj = bivalent temperature	COPd	1.66	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.66	-
Tj = +12 °C	Pdh	3.0	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	4.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.6	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}	0.015	kW	Thermostat-off mode	P _{TO}	0.015	kW
Thermostat-off mode	P _{TO}	0.015	kW	Standby mode	P _{SB}	0.015	kW
Standby mode	P _{SB}	0.015	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	L _{WA}	41 / 58	dB(A)	1810			
Annual energy consumption	Q _{HE}	2994	kWh	m ³ /h			

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	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-SHWM40VAH(-SC)
	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	5.0	kW	Seasonal space heating energy efficiency	η_s	172	%
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	4.5	kW	Tj = - 7 °C	COPd	2.57	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.29	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	6.19	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	10.44	-
Tj = + 7 °C	Pdh	3.0	kW	Tj = bivalent temperature	COPd	2.37	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.37	-
Tj = +12 °C	Pdh	3.4	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.95	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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}	0.015	kW			1810	m ³ /h
Thermostat-off mode	P _{TO}	0.015	kW	Capacity control	variable		
Standby mode	P _{SB}	0.015	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB(A)
Crankcase heater mode	P _{CK}	0.000	kW	Annual energy consumption	Q _{HE}	2366	kWh

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{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-SHWM40VAH(-SC)
	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	5.0	kW	Seasonal space heating energy efficiency	η_s	102	%
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	2.26	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.16	-
T _j = + 2 °C	P _{dh}	2.8	kW	T _j = + 7 °C	COP _d	4.76	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	9.81	-
T _j = + 7 °C	P _{dh}	3.0	kW	T _j = bivalent temperature	COP _d	1.31	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.25	-
T _j = +12 °C	P _{dh}	3.3	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.31	-
Degradation co-efficient (**)	C _{dh}	0.96	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	4.1	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	3.7	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	4.1	kW	Rated heat output (*)	P _{sup}	5.0	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}	0.015	kW			1810	m ³ /h
Thermostat-off mode	P _{TO}	0.015	kW	Capacity control			
Standby mode	P _{SB}	0.015	kW	variable			
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
				L _{WA}			
				41 / 58			
				Annual energy consumption			
				Q _{HE}			
				4711			
				kWh			

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

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				Tadashi SAITO			
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				THAILAND			

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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 P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).
- (**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.
- (***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SHWM40VAH(-SC)
	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	5.0	kW	Seasonal space heating energy efficiency	η_s	145	%
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	3.1	kW	Tj = - 7 °C	COPd	3.27	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = + 2 °C	COPd	4.52	-
Tj = + 2 °C	Pdh	2.8	kW	Tj = + 7 °C	COPd	6.38	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	9.73	-
Tj = + 7 °C	Pdh	3.1	kW	Tj = bivalent temperature	COPd	1.86	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.80	-
Tj = +12 °C	Pdh	3.0	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.86	-
Degradation co-efficient (**)	Cdh	0.95	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	4.1	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.2	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	4.1	kW	Rated heat output (*)	Psup	0.8	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			-	1810	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB(A)				
Annual energy consumption	Q _{HE}	3328	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	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.

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SHWM40VAH(-SC)
	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	4.0	kW	Seasonal space heating energy efficiency	η_s	161	%
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	2.26	-
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.22	-
Tj = + 7 °C	Pdh	3.3	kW	Tj = bivalent temperature	COPd	2.26	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.26	-
Tj = +12 °C	Pdh	2.9	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	4.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.0	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 _{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			-	1810	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB(A)				
Annual energy consumption	Q _{HE}	1305	kWh				

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

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PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SHWM40VAH(-SC)
	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	4.0	kW	Seasonal space heating energy efficiency	η_s	242	%
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	3.58	-
Tj = + 2 °C	Pdh	4.0	kW	Tj = + 7 °C	COPd	5.49	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	9.75	-
Tj = + 7 °C	Pdh	3.4	kW	Tj = bivalent temperature	COPd	3.58	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.58	-
Tj = +12 °C	Pdh	3.3	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	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}	0.015	kW	Thermostat-off mode	P _{TO}	0.015	kW
Thermostat-off mode	P _{TO}	0.015	kW	Standby mode	P _{SB}	0.015	kW
Standby mode	P _{SB}	0.015	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				L _{WA}			
41 / 58				41 / 58			
Annual energy consumption				Q _{HE}			
872				872			

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

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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.