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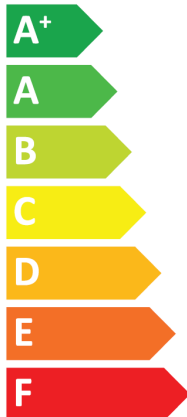
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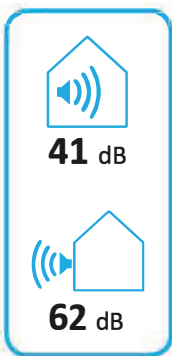
Indoor unit ERST30D-****D
Outdoor unit SUZ-SWM100VAH



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1. SPACE HEATER

Table with columns for Outdoor unit, Indoor unit, and various performance metrics (3, 6, 8, 11, 13, 15, 16, 21, 22, 17, 18, 25) for medium-temperature application and low-temperature application. 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, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25) for medium-temperature application and low-temperature application. Rows include models like SUZ-SWM30VA, SUZ-SHM30VAH, etc.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM100VAH
	Indoor unit:	ERST30D-****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	7.5	kW	Seasonal space heating energy efficiency	η_s	129	%
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	6.6	kW	Tj = - 7 °C	COPd	1.68	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 °C	COPd	3.23	-
Tj = + 2 °C	Pdh	4.1	kW	Tj = + 7 °C	COPd	4.80	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.78	-
Tj = + 7 °C	Pdh	3.5	kW	Tj = bivalent temperature	COPd	1.68	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.59	-
Tj = +12 °C	Pdh	3.9	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	6.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	6.1	kW	Rated heat output (*)	Psup	1.4	kW
Bivalent temperature	Tbiv	-7	°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 _{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			-	2790	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 62	dB(A)				
Annual energy consumption	Q _{HE}	4703	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	139	%	
Daily electricity consumption	Q _{elec}	5.650	kWh				
Annual electricity consumption	AEC	1243	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-SWM100VAH
	Indoor unit:	ERST30D-****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	7.8	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	6.9	kW	Tj = - 7 °C	COPd	2.79	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.43	-
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.89	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.04	-
Tj = + 7 °C	Pdh	3.4	kW	Tj = bivalent temperature	COPd	2.22	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.22	-
Tj = +12 °C	Pdh	3.7	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	7.8	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	7.8	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				2790			
L _{WA}				m ³ /h			
41 / 62							
Annual energy consumption							
Q _{HE}							
3585							
kWh							

For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	139	%
Daily electricity consumption	Qelec	5.650	kWh				
Annual electricity consumption	AEC	1243	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

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	Indoor unit:	ERST30D-****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	5.5	kW	Seasonal space heating energy efficiency	η_s	100	%
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	3.4	kW	Tj = - 7 °C	COPd	2.16	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.33	-
Tj = + 2 °C	Pdh	3.4	kW	Tj = + 7 °C	COPd	5.19	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.39	-
Tj = + 7 °C	Pdh	3.3	kW	Tj = bivalent temperature	COPd	1.13	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.08	-
Tj = +12 °C	Pdh	3.6	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.13	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	4.5	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.0	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	4.5	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 _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	5.5	kW
Thermostat-off mode	P _{TO}	0.015	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control	variable					2790	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 62	dB(A)				
Annual energy consumption	Q _{HE}	5240	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL				η_{wh}	117	%
Daily electricity consumption	Q _{elec}	6.710	kWh				
Annual electricity consumption	AEC	1476	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-SWM100VAH
	Indoor unit:	ERST30D-****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	6.7	kW	Seasonal space heating energy efficiency	η_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	4.1	kW	Tj = - 7 °C	COPd	3.01	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.29	-
Tj = + 2 °C	Pdh	3.6	kW	Tj = + 7 °C	COPd	6.35	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.12	-
Tj = + 7 °C	Pdh	3.4	kW	Tj = bivalent temperature	COPd	1.82	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.62	-
Tj = +12 °C	Pdh	3.7	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.82	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	5.5	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	5.7	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	5.5	kW	Rated heat output (*)	Psup	1.0	kW
Bivalent temperature	Tbiv	-15	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.015	kW			2790	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 / 62			
				Annual energy consumption			
				Q _{HE}			
				4671			
				kWh			
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	117	%	
Daily electricity consumption	Qelec	6.710	kWh				
Annual electricity consumption	AEC	1476	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-SWM100VAH
	Indoor unit:	ERST30D-****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	8.5	kW	Seasonal space heating energy efficiency	η_s	179	%
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	2.05	-
Tj = + 2 °C	Pdh	8.5	kW	Tj = + 7 °C	COPd	4.17	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	5.67	-
Tj = + 7 °C	Pdh	5.5	kW	Tj = bivalent temperature	COPd	2.05	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	2.05	-
Tj = +12 °C	Pdh	3.6	kW	Operation limit temperature	TOL	-25	°C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	8.5	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	8.5	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			-	2790	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 62	dB(A)				
Annual energy consumption	Q _{HE}	2493	kWh				

For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	167	%
Daily electricity consumption	Q _{elec}	4.720	kWh				
Annual electricity consumption	AEC	1038	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-SWM100VAH
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	η_s	238	%
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	2.94	-
Tj = + 2 °C	Pdh	9.0	kW	Tj = + 7 °C	COPd	5.92	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	6.93	-
Tj = + 7 °C	Pdh	5.8	kW	Tj = bivalent temperature	COPd	2.94	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	2.94	-
Tj = +12 °C	Pdh	3.7	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	9.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	9.0	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 / 62	dB(A)
Standby mode	P _{SB}	0.015	kW	Annual energy consumption	Q _{HE}	1997	kWh
Crankcase heater mode	P _{CK}	0.000	kW	Rated air flow rate, outdoors			
Other items				-			
Rated air flow rate, outdoors				2790			
2790				m ³ /h			

For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	167	%
Daily electricity consumption	Qelec	4.720	kWh				
Annual electricity consumption	AEC	1038	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.