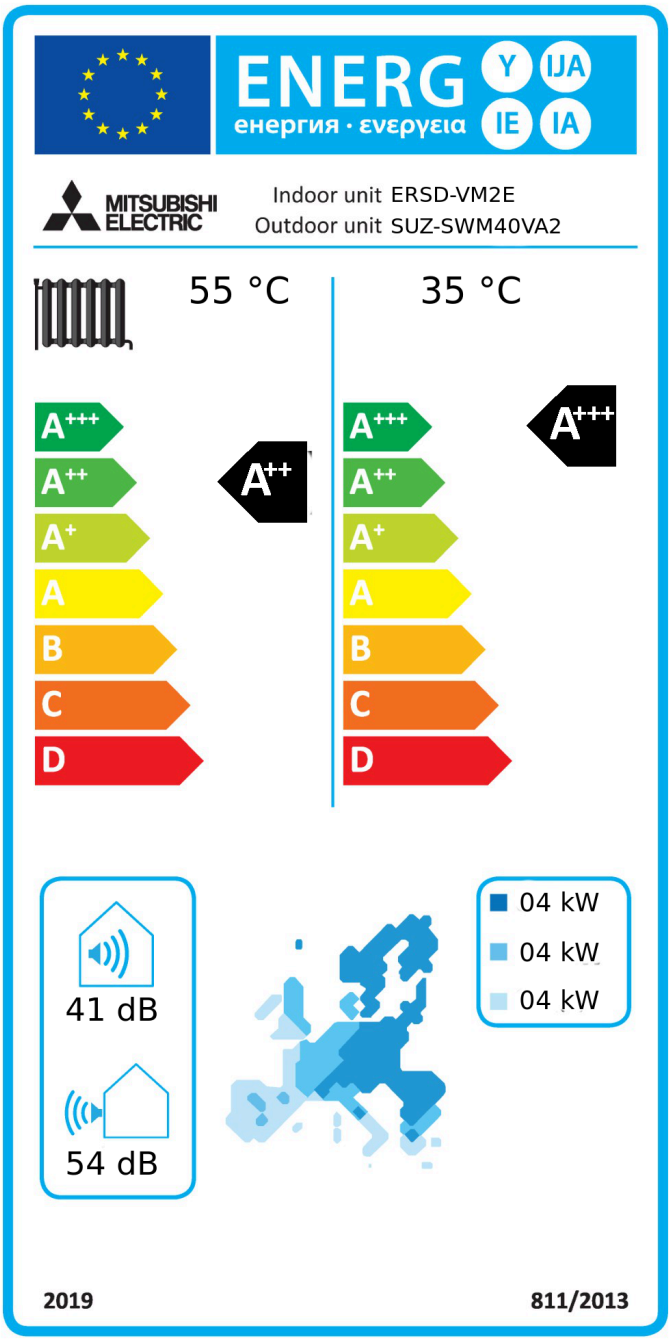
Heat Pump Package Calculator Results

Outdoor: SUZ-SWM40VA2 / Indoor: ERSD-VM2E

Energy Label



1. SPACE HEATER

1	Outdoor unit		**SUZ-SWM40VA2**
2	Indoor unit		**ERSD-VM2E (Hydro box)**
For medium-temperature application			
3	Medium-temperature application		✓
6	Seasonal space heating energy efficiency class		**A++**
8	Rated heat output under average climate conditions	kW	4.5
11	Seasonal space heating energy efficiency under average climate conditions	%	135
9	For space heating, annual energy consumption under average climate conditions	kWh	2699
13	Sound power level L_{WA} indoor	dB	41
15	Rated heat output under colder climate conditions	kW	4.4
16	Rated heat output under warmer climate conditions	kW	4
21	Seasonal space heating energy efficiency under colder climate conditions	%	114
22	Seasonal space heating energy efficiency under warmer climate conditions	%	181
17	For space heating, annual energy consumption under colder climate conditions	kWh	3699
18	For space heating, annual energy consumption under warmer climate conditions	kWh	1159
25	Sound power level L_{WA} outdoor	dB	54
For low-temperature application			
4	Low-temperature application		✓
6	Seasonal space heating energy efficiency class		**A+++**
8	Rated heat output under average climate conditions	kW	4.7
11	Seasonal space heating energy efficiency under average climate conditions	%	200
9	For space heating, annual energy consumption under average climate conditions	kWh	1918
13	Sound power level L_{WA} indoor	dB	41
15	Rated heat output under colder climate conditions	kW	4.4
16	Rated heat output under warmer climate conditions	kW	4
21	Seasonal space heating energy efficiency under colder climate conditions	%	152
22	Seasonal space heating energy efficiency under warmer climate conditions	%	260
17	For space heating, annual energy consumption under colder climate conditions	kWh	2793
18	For space heating, annual energy consumption under warmer climate conditions	kWh	814
25	Sound power level L_{WA} outdoor	dB	54

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM40VA2
	Indoor unit:	ERSD-VM2E
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
Rated heat output(*)	P_{rated}	4.5	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	P_{dh}	4.0	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +2°C	P_{dh}	2.5	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +7°C	P_{dh}	2.2	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = +12°C	P_{dh}	2.8	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = bivalent temperature	P_{dh}	4.0	kW
T_j = operation limit temperature(***)	P_{dh}	4.3	kW
Bivalent temperature	T_{biv}	-7	°C
Reference design conditions for space heating	$T_{designh}$	-10	°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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB
Annual energy consumption	Q_{HE}	2699	kWh

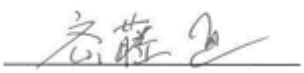
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	135	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	COP_d	2.23	
T_j = +2°C	COP_d	3.21	
T_j = +7°C	COP_d	4.60	
T_j = +12°C	COP_d	6.94	
T_j = bivalent temperature	COP_d	2.23	
T_j = operation limit temperature(***)	COP_d	2.04	
Operation limit temperature	T_{OL}	-25	°C
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output(*)	P_{sup}	0.1	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors		1680	m³/h

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 Assuarance Department

THAILAND

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM40VA2
	Indoor unit:	ERSD-VM2E
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
Rated heat output(*)	P_{rated}	4.4	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	P_{dh}	4.0	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +2°C	P_{dh}	2.5	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +7°C	P_{dh}	2.2	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = +12°C	P_{dh}	2.8	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = bivalent temperature	P_{dh}	4.0	kW
T_j = operation limit temperature(***)	P_{dh}	4.3	kW
Bivalent temperature	T_{biv}	-7	°C
Reference design conditions for space heating	$T_{designh}$	-10	°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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB
Annual energy consumption	Q_{HE}	3699	kWh

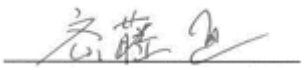
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	114	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	COP_d	2.23	
T_j = +2°C	COP_d	3.21	
T_j = +7°C	COP_d	4.60	
T_j = +12°C	COP_d	6.94	
T_j = bivalent temperature	COP_d	2.23	
T_j = operation limit temperature(***)	COP_d	2.04	
Operation limit temperature	T_{OL}	-25	°C
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output(*)	P_{sup}	0.1	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors		1680	m³/h

Contact details

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Manager, Quality Assuarance Department

THAILAND

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM40VA2
	Indoor unit:	ERSD-VM2E
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
Rated heat output(*)	P_{rated}	4.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	P_{dh}	4.0	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +2°C	P_{dh}	2.5	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +7°C	P_{dh}	2.2	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = +12°C	P_{dh}	2.8	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = bivalent temperature	P_{dh}	4.0	kW
T_j = operation limit temperature(***)	P_{dh}	4.3	kW
Bivalent temperature	T_{biv}	-7	°C
Reference design conditions for space heating	$T_{designh}$	-10	°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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB
Annual energy consumption	Q_{HE}	1159	kWh

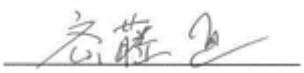
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	181	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	COP_d	2.23	
T_j = +2°C	COP_d	3.21	
T_j = +7°C	COP_d	4.60	
T_j = +12°C	COP_d	6.94	
T_j = bivalent temperature	COP_d	2.23	
T_j = operation limit temperature(***)	COP_d	2.04	
Operation limit temperature	T_{OL}	-25	°C
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output(*)	P_{sup}	0.1	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors		1680	m³/h

Contact details

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THAILAND

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM40VA2
	Indoor unit:	ERSD-VM2E
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
Rated heat output(*)	P_{rated}	4.7	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	P_{dh}	4.2	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +2°C	P_{dh}	2.6	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = +7°C	P_{dh}	2.4	kW
Degradation co-efficient(**)	C_{dh}	0.97	
T_j = +12°C	P_{dh}	2.4	kW
Degradation co-efficient(**)	C_{dh}	0.96	
T_j = bivalent temperature	P_{dh}	4.7	kW
T_j = operation limit temperature(***)	P_{dh}	4.7	kW
Bivalent temperature	T_{biv}	-7	°C
Reference design conditions for space heating	$T_{designh}$	-10	°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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB
Annual energy consumption	Q_{HE}	1918	kWh

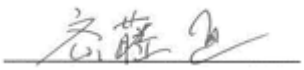
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	200	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	COP_d	3.43	
T_j = +2°C	COP_d	4.73	
T_j = +7°C	COP_d	6.64	
T_j = +12°C	COP_d	9.54	
T_j = bivalent temperature	COP_d	2.91	
T_j = operation limit temperature(***)	COP_d	2.91	
Operation limit temperature	T_{OL}	-25	°C
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output(*)	P_{sup}	0.1	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors		1680	m³/h

Contact details

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Model(s):	Outdoor unit:	SUZ-SWM40VA2
	Indoor unit:	ERSD-VM2E
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
Rated heat output(*)	P_{rated}	4.4	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	P_{dh}	4.2	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +2°C	P_{dh}	2.6	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = +7°C	P_{dh}	2.4	kW
Degradation co-efficient(**)	C_{dh}	0.97	
T_j = +12°C	P_{dh}	2.4	kW
Degradation co-efficient(**)	C_{dh}	0.96	
T_j = bivalent temperature	P_{dh}	4.7	kW
T_j = operation limit temperature(***)	P_{dh}	4.7	kW
Bivalent temperature	T_{biv}	-7	°C
Reference design conditions for space heating	$T_{designh}$	-10	°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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB
Annual energy consumption	Q_{HE}	2793	kWh

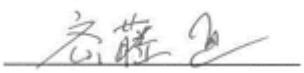
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	152	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	COP_d	3.43	
T_j = +2°C	COP_d	4.73	
T_j = +7°C	COP_d	6.64	
T_j = +12°C	COP_d	9.54	
T_j = bivalent temperature	COP_d	2.91	
T_j = operation limit temperature(***)	COP_d	2.91	
Operation limit temperature	T_{OL}	-25	°C
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output(*)	P_{sup}	0.1	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors		1680	m³/h

Contact details

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Model(s):	Outdoor unit:	SUZ-SWM40VA2
	Indoor unit:	ERSD-VM2E
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
Rated heat output(*)	P_{rated}	4.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	P_{dh}	4.2	kW
Degradation co-efficient(**)	C_{dh}	0.99	
T_j = +2°C	P_{dh}	2.6	kW
Degradation co-efficient(**)	C_{dh}	0.98	
T_j = +7°C	P_{dh}	2.4	kW
Degradation co-efficient(**)	C_{dh}	0.97	
T_j = +12°C	P_{dh}	2.4	kW
Degradation co-efficient(**)	C_{dh}	0.96	
T_j = bivalent temperature	P_{dh}	4.7	kW
T_j = operation limit temperature(***)	P_{dh}	4.7	kW
Bivalent temperature	T_{biv}	-7	°C
Reference design conditions for space heating	$T_{designh}$	-10	°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			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	41 / 54	dB
Annual energy consumption	Q_{HE}	814	kWh

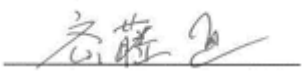
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	260	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T_j			
T_j = -7°C	COP_d	3.43	
T_j = +2°C	COP_d	4.73	
T_j = +7°C	COP_d	6.64	
T_j = +12°C	COP_d	9.54	
T_j = bivalent temperature	COP_d	2.91	
T_j = operation limit temperature(***)	COP_d	2.91	
Operation limit temperature	T_{OL}	-25	°C
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output(*)	P_{sup}	0.1	kW
Type of energy input		Electrical	
Rated air flow rate, outdoors		1680	m³/h

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