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Indoor unit

ERSF-YM9E

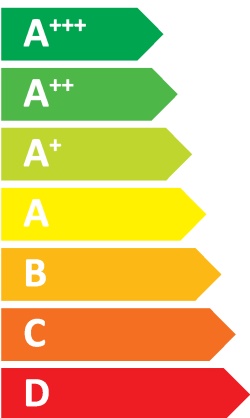
Outdoor unit

PUZ-SHWM100YAA



55 °C

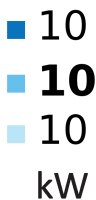
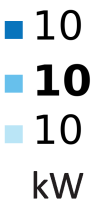
35 °C



41 dB



58 dB



1. SPACE HEATER

	1	Outdoor unit		PUZ-SHWM100YAA
	2	Indoor unit		ERSF-YM9E
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	10
	11	Seasonal space heating energy efficiency under average climate conditions	%	138
	9	For space heating, annual energy consumption under average climate conditions	kWh	5868
	13	Sound power level L _{WA} indoor	dB	41
	15	Rated heat output under colder climate conditions	kW	10
	16	Rated heat output under warmer climate conditions	kW	10
	21	Seasonal space heating energy efficiency under colder climate conditions	%	117
	22	Seasonal space heating energy efficiency under warmer climate conditions	%	168
	17	For space heating, annual energy consumption under colder climate conditions	kWh	8214
	18	For space heating, annual energy consumption under warmer climate conditions	kWh	3132
	25	Sound power level L _{WA} outdoor	dB	58
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	10
	11	Seasonal space heating energy efficiency under average climate conditions	%	186
	9	For space heating, annual energy consumption under average climate conditions	kWh	4380
	13	Sound power level L _{WA} indoor	dB	41
	15	Rated heat output under colder climate conditions	kW	10
	16	Rated heat output under warmer climate conditions	kW	10
	21	Seasonal space heating energy efficiency under colder climate conditions	%	150
	22	Seasonal space heating energy efficiency under warmer climate conditions	%	243
	17	For space heating, annual energy consumption under colder climate conditions	kWh	6438
18	For space heating, annual energy consumption under warmer climate conditions	kWh	2171	
25	Sound power level L _{WA} outdoor	dB	58	

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

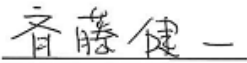
Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSF-YM9E
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	138	%
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}	8.8	kW	T _j = - 7°C	COP _d	2.20	
Degradation co-efficient(**)	C _{dh}	1.00		T _j = + 2°C	COP _d	3.40	
T _j = + 2°C	P _{dh}	5.4	kW	T _j = + 7°C	COP _d	4.62	
Degradation co-efficient(**)	C _{dh}	0.99		T _j = + 12°C	COP _d	6.30	
T _j = + 7°C	P _{dh}	4.8	kW	T _j = bivalent temperature	COP _d	1.70	
Degradation co-efficient(**)	C _{dh}	0.98		T _j = operation limit temperature(****)	COP _d	1.70	
T _j = + 12°C	P _{dh}	2.9	kW	Operation limit temperature	TOL	-30	°C
Degradation co-efficient(**)	C _{dh}	0.95		Heating water operating limit temperature	WTOL	70	°C
T _j = bivalent temperature	P _{dh}	10.0	kW	Supplementary heater			
T _j = operation limit temperature(****)	P _{dh}	10.0	kW	Rated heat output(*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	-10	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-10	°C	Other items			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.022	kW			2640	m³/h
Thermostat-off mode	P _{TO}	0.022	kW	Capacity control			
Standby mode	P _{SB}	0.022	kW			variable	
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors			
						L _{WA}	41 / 58 dB
				Annual energy consumption			
						Q _{HE}	5868 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				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖKÜYÜSÜ Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa

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



Kenichi SAITO
 Manager, Quality Assurance Department
 TURKEY

* Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

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

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

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

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

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSF-YM9E
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 (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = - 7°C	P _{dh}	8.8	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = + 2°C	P _{dh}	5.4	kW
Degradation co-efficient(**)	C _{dh}	0.98	
T _j = + 7°C	P _{dh}	5.2	kW
Degradation co-efficient(**)	C _{dh}	0.98	
T _j = + 12°C	P _{dh}	3.2	kW
Degradation co-efficient(**)	C _{dh}	0.95	
T _j = bivalent temperature	P _{dh}	10.0	kW
T _j = operation limit temperature(***)	P _{dh}	10.0	kW
Bivalent temperature	T _{biv}	-10	°C
Reference design conditions for space heating	T _{designh}	-10	°C
Power consumption in modes other than active mode			
Off mode	P _{OFF}	0.022	kW
Thermostat-off mode	P _{TO}	0.022	kW
Standby mode	P _{SB}	0.022	kW
Crankcase heater mode	P _{CK}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	186	%
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	3.12	
T _j = + 2°C	COP _d	4.65	
T _j = + 7°C	COP _d	6.00	
T _j = + 12°C	COP _d	6.96	
T _j = bivalent temperature	COP _d	2.51	
T _j = operation limit temperature(***)	COP _d	2.51	
Operation limit temperature	TOL	-30	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P _{sup}	0.0	kW
Type of energy input		Electrical	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB
Annual energy consumption	Q _{HE}	4380	kWh
Rated air flow rate, outdoors			
		2640	m ³ /h

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

Contact details

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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.

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Model(s):	Outdoor unit:	PUZ-SHWM100YAA
	Indoor unit:	ERSF-YM9E
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 (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = - 7°C	P _{dh}	6.0	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = + 2°C	P _{dh}	4.0	kW
Degradation co-efficient(**)	C _{dh}	0.98	
T _j = + 7°C	P _{dh}	3.8	kW
Degradation co-efficient(**)	C _{dh}	0.97	
T _j = + 12°C	P _{dh}	4.4	kW
Degradation co-efficient(**)	C _{dh}	0.97	
T _j = bivalent temperature	P _{dh}	8.4	kW
T _j = operation limit temperature(***)	P _{dh}	8.0	kW
T _j = - 15°C (if TOL < - 20°C)	P _{dh}	8.2	kW
Bivalent temperature	T _{biv}	-16	°C
Reference design conditions for space heating	T _{designh}	-22	°C
Power consumption in modes other than active mode			
Off mode	P _{OFF}	0.022	kW
Thermostat-off mode	P _{TO}	0.022	kW
Standby mode	P _{SB}	0.022	kW
Crankcase heater mode	P _{CK}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	117	%
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	2.62	
T _j = + 2°C	COP _d	3.53	
T _j = + 7°C	COP _d	4.59	
T _j = + 12°C	COP _d	6.88	
T _j = bivalent temperature	COP _d	1.58	
T _j = operation limit temperature(***)	COP _d	1.59	
T _j = - 15°C (if TOL < - 20°C)	COP _d	1.58	
Operation limit temperature	TOL	-30	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P _{sup}	2.0	kW
Type of energy input		Electrical	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB
Annual energy consumption	Q _{HE}	8214	kWh

Rated air flow rate, outdoors		2640	m ³ /h
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For heat pump combination heater:			
Declared load profile		-	
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh

Water heating energy efficiency	η _{wh}	-	%
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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:	PUZ-SHWM100YAA
	Indoor unit:	ERSF-YM9E
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 (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	6.2	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = +2°C	P _{dh}	4.1	kW
Degradation co-efficient(**)	C _{dh}	0.98	
T _j = +7°C	P _{dh}	3.9	kW
Degradation co-efficient(**)	C _{dh}	0.97	
T _j = +12°C	P _{dh}	4.5	kW
Degradation co-efficient(**)	C _{dh}	0.96	
T _j = bivalent temperature	P _{dh}	8.4	kW
T _j = operation limit temperature(***)	P _{dh}	7.7	kW
T _j = -15°C (if TOL < -20°C)	P _{dh}	8.2	kW
Bivalent temperature	T _{biv}	-16	°C
Reference design conditions for space heating	T _{designh}	-22	°C
Power consumption in modes other than active mode			
Off mode	P _{OFF}	0.022	kW
Thermostat-off mode	P _{TO}	0.022	kW
Standby mode	P _{SB}	0.022	kW
Crankcase heater mode	P _{CK}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	150	%
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	3.71	
T _j = +2°C	COP _d	4.38	
T _j = +7°C	COP _d	5.34	
T _j = +12°C	COP _d	7.50	
T _j = bivalent temperature	COP _d	2.01	
T _j = operation limit temperature(***)	COP _d	1.57	
T _j = -15°C (if TOL < -20°C)	COP _d	2.01	
Operation limit temperature	TOL	-30	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P _{sup}	2.3	kW
Type of energy input		Electrical	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB
Annual energy consumption	Q _{HE}	6438	kWh
Rated air flow rate, outdoors		2640	m³/h

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

Contact details

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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:	PUZ-SHWM100YAA
	Indoor unit:	ERSF-YM9E
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 (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = - 7°C	P _{dh}	-	kW
Degradation co-efficient(**)	C _{dh}	-	
T _j = + 2°C	P _{dh}	10.0	kW
Degradation co-efficient(**)	C _{dh}	1.00	
T _j = + 7°C	P _{dh}	6.4	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = + 12°C	P _{dh}	4.2	kW
Degradation co-efficient(**)	C _{dh}	0.97	
T _j = bivalent temperature	P _{dh}	10.0	kW
T _j = operation limit temperature(***)	P _{dh}	10.0	kW
Bivalent temperature	T _{biv}	2	°C
Reference design conditions for space heating	T _{designh}	2	°C
Power consumption in modes other than active mode			
Off mode	P _{OFF}	0.022	kW
Thermostat-off mode	P _{TO}	0.022	kW
Standby mode	P _{SB}	0.022	kW
Crankcase heater mode	P _{CK}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	168	%
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	-	
T _j = + 2°C	COP _d	2.10	
T _j = + 7°C	COP _d	3.56	
T _j = + 12°C	COP _d	5.77	
T _j = bivalent temperature	COP _d	2.10	
T _j = operation limit temperature(***)	COP _d	2.10	
Operation limit temperature	TOL	-30	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P _{sup}	0.0	kW
Type of energy input		Electrical	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB
Annual energy consumption	Q _{HE}	3132	kWh

Rated air flow rate, outdoors		2640	m ³ /h
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For heat pump combination heater:			
Declared load profile		-	
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh

Water heating energy efficiency	η _{wh}	-	%
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Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY ANONUS HİSİTİM ŞİRKETİ
 Yabancı Satış Birimi, Yabancı Satış Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa

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

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

Kenichi SAITO
 Manager, Quality Assurance Department
 TURKEY

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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:	PUZ-SHWM100YAA
	Indoor unit:	ERSF-YM9E
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 (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = - 7°C	P _{dh}	-	kW
Degradation co-efficient(**)	C _{dh}	-	
T _j = + 2°C	P _{dh}	10.0	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = + 7°C	P _{dh}	6.4	kW
Degradation co-efficient(**)	C _{dh}	0.98	
T _j = + 12°C	P _{dh}	4.4	kW
Degradation co-efficient(**)	C _{dh}	0.96	
T _j = bivalent temperature	P _{dh}	10.0	kW
T _j = operation limit temperature(***)	P _{dh}	10.0	kW
Bivalent temperature	T _{biv}	2	°C
Reference design conditions for space heating	T _{designh}	2	°C
Power consumption in modes other than active mode			
Off mode	P _{OFF}	0.022	kW
Thermostat-off mode	P _{TO}	0.022	kW
Standby mode	P _{SB}	0.022	kW
Crankcase heater mode	P _{CK}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	243	%
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	-	
T _j = + 2°C	COP _d	3.50	
T _j = + 7°C	COP _d	5.58	
T _j = + 12°C	COP _d	7.56	
T _j = bivalent temperature	COP _d	3.50	
T _j = operation limit temperature(***)	COP _d	3.50	
Operation limit temperature	TOL	-30	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P _{sup}	0.0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dB
Annual energy consumption	Q _{HE}	2171	kWh

Rated air flow rate, outdoors	2640	m ³ /h
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For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh

Water heating energy efficiency	η _{wh}	-	%
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Contact details

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 · 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.