



ENERG

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Indoor unit

ERSF-YM9E

Outdoor unit

PUZ-SHWM120YAA



55 °C

35 °C



41 dB



58 dB

■ 12
■ **12**
■ 12
kW

■ 12
■ **12**
■ 12
kW



1. SPACE HEATER

	1	Outdoor unit		PUZ-SHWM120YAA
	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	12
	11	Seasonal space heating energy efficiency under average climate conditions	%	138
	9	For space heating, annual energy consumption under average climate conditions	kWh	7083
	13	Sound power level L _{WA} indoor	dB	41
	15	Rated heat output under colder climate conditions	kW	12
	16	Rated heat output under warmer climate conditions	kW	12
	21	Seasonal space heating energy efficiency under colder climate conditions	%	118
	22	Seasonal space heating energy efficiency under warmer climate conditions	%	164
	17	For space heating, annual energy consumption under colder climate conditions	kWh	9827
	18	For space heating, annual energy consumption under warmer climate conditions	kWh	3881
	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	12
11		Seasonal space heating energy efficiency under average climate conditions	%	182
9		For space heating, annual energy consumption under average climate conditions	kWh	5404
13		Sound power level L _{WA} indoor	dB	41
15		Rated heat output under colder climate conditions	kW	12
16		Rated heat output under warmer climate conditions	kW	12
21		Seasonal space heating energy efficiency under colder climate conditions	%	150
22		Seasonal space heating energy efficiency under warmer climate conditions	%	238
17		For space heating, annual energy consumption under colder climate conditions	kWh	7781
18	For space heating, annual energy consumption under warmer climate conditions	kWh	2680	
25	Sound power level L _{WA} outdoor	dB	58	

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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
Rated heat output (*)	Prated	12.1	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	10.7	kW
Degradation co-efficient(**)	C _{dh}	1.00	
T _j = +2°C	P _{dh}	6.5	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = +7°C	P _{dh}	5.0	kW
Degradation co-efficient(**)	C _{dh}	0.98	
T _j = +12°C	P _{dh}	3.8	kW
Degradation co-efficient(**)	C _{dh}	0.96	
T _j = bivalent temperature	P _{dh}	12.1	kW
T _j = operation limit temperature(***)	P _{dh}	12.1	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	138	%
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	2.16	
T _j = +2°C	COP _d	3.38	
T _j = +7°C	COP _d	4.75	
T _j = +12°C	COP _d	6.32	
T _j = bivalent temperature	COP _d	1.79	
T _j = operation limit temperature(***)	COP _d	1.79	
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}	7083	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 VE İNŞAAT PAZARLAMA VE DAĞITIM ŞİRKETİ
 Yabancı Satış Ofisi, Büyükdere 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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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	12.1	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	10.7	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = +2°C	P _{dh}	6.5	kW
Degradation co-efficient(**)	C _{dh}	0.98	
T _j = +7°C	P _{dh}	5.2	kW
Degradation co-efficient(**)	C _{dh}	0.97	
T _j = +12°C	P _{dh}	4.0	kW
Degradation co-efficient(**)	C _{dh}	0.96	
T _j = bivalent temperature	P _{dh}	12.1	kW
T _j = operation limit temperature(***)	P _{dh}	12.1	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	182	%
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	2.87	
T _j = +2°C	COP _d	4.57	
T _j = +7°C	COP _d	6.04	
T _j = +12°C	COP _d	7.02	
T _j = bivalent temperature	COP _d	2.45	
T _j = operation limit temperature(***)	COP _d	2.45	
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}	5404	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

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

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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:	PUZ-SHWM120YAA
	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	12.1	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = -7°C	P _{dh}	7.3	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = +2°C	P _{dh}	4.4	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}	0.96	
T _j = bivalent temperature	P _{dh}	10.2	kW
T _j = operation limit temperature(***)	P _{dh}	8.2	kW
T _j = -15°C (if TOL < -20°C)	P _{dh}	9.9	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	118	%
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	2.70	
T _j = +2°C	COP _d	3.53	
T _j = +7°C	COP _d	4.78	
T _j = +12°C	COP _d	7.00	
T _j = bivalent temperature	COP _d	1.57	
T _j = operation limit temperature(***)	COP _d	1.54	
T _j = -15°C (if TOL < -20°C)	COP _d	1.57	
Operation limit temperature	TOL	-30	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P _{sup}	3.9	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}	9827	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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 TURKEY

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

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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.

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

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SHWM120YAA
	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	12.1	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T _j			
T _j = - 7°C	P _{dh}	7.3	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = + 2°C	P _{dh}	4.5	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}	4.6	kW
Degradation co-efficient(**)	C _{dh}	0.96	
T _j = bivalent temperature	P _{dh}	10.2	kW
T _j = operation limit temperature(***)	P _{dh}	8.7	kW
T _j = - 15°C (if TOL < - 20°C)	P _{dh}	9.9	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	3.67	
T _j = + 2°C	COP _d	4.34	
T _j = + 7°C	COP _d	5.38	
T _j = + 12°C	COP _d	8.02	
T _j = bivalent temperature	COP _d	2.10	
T _j = operation limit temperature(***)	COP _d	1.56	
T _j = - 15°C (if TOL < - 20°C)	COP _d	2.06	
Operation limit temperature	TOL	-30	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P _{sup}	3.4	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}	7781	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-SHWM120YAA
	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	12.1	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}	12.1	kW
Degradation co-efficient(**)	C _{dh}	1.00	
T _j = +7°C	P _{dh}	7.7	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = +12°C	P _{dh}	5.2	kW
Degradation co-efficient(**)	C _{dh}	0.98	
T _j = bivalent temperature	P _{dh}	12.1	kW
T _j = operation limit temperature(***)	P _{dh}	12.1	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	164	%
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	2.05	
T _j = +7°C	COP _d	3.44	
T _j = +12°C	COP _d	5.67	
T _j = bivalent temperature	COP _d	2.05	
T _j = operation limit temperature(***)	COP _d	2.05	
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}	3881	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 ANON İŞTİRKİLERİ
 Yabancı Satış Ofisi, Kocaeli Yolu, 19. Yunus Emre Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunus Emre - 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-SHWM120YAA
	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	12.1	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}	12.1	kW
Degradation co-efficient(**)	C _{dh}	0.99	
T _j = + 7°C	P _{dh}	7.7	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}	12.1	kW
T _j = operation limit temperature(***)	P _{dh}	12.1	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	238	%
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	3.30	
T _j = + 7°C	COP _d	5.37	
T _j = + 12°C	COP _d	7.49	
T _j = bivalent temperature	COP _d	3.30	
T _j = operation limit temperature(***)	COP _d	3.30	
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}	2680	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}	- %

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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.