



ENERG
енергия · ενεργεια



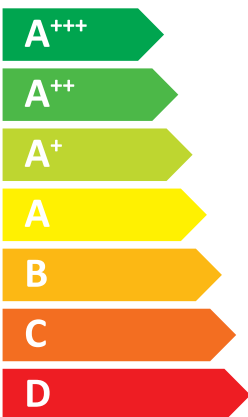
Indoor unit
Outdoor unit

E*SD-****D
PUZ-SWM120YAA



55 °C

35 °C



A⁺⁺

A⁺⁺⁺



41 dB



58 dB

■ 12
■ 12
■ 12
kW

■ 12
■ 12
■ 12
kW



2019

811/2013

DG79V342H07

1		2		For medium-temperature application															For low-temperature application														
				3	6	8	11	9	13	15	16	21	22	17	18	25	4	6	8	11	9	13	15	16	21	22	17	18	25				
Outdoor unit	Indoor unit	Medium temperature application															Low-temperature application																
		Seasonal space heating energy efficiency class															Seasonal space heating energy efficiency class																
		Rated heat output under average climate conditions															Rated heat output under average climate conditions																
		kW															kW																
		%															%																
		kWh															kWh																
		dB															dB																
		Sound power level L _{WA} indoor															Sound power level L _{WA} outdoor																
		Seasonal space heating energy efficiency under average climate conditions															Seasonal space heating energy efficiency under average climate conditions																
		For space heating, annual energy consumption under average climate conditions															For space heating, annual energy consumption under average climate conditions																
		For space heating, annual energy consumption under warmer climate conditions															For space heating, annual energy consumption under warmer climate conditions																
		For space heating, annual energy consumption under colder climate conditions															For space heating, annual energy consumption under colder climate conditions																
		For space heating, annual energy consumption under average climate conditions															For space heating, annual energy consumption under average climate conditions																
		For space heating, annual energy consumption under average climate conditions															For space heating, annual energy consumption under average climate conditions																
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	English	Deutsch	Français	Italiano	Espanol
	Nederlands	Svenska	Dansk	Português	Ελληνικά
	suomi	Čeština	Български	Polski	Ελληνικά
	Outdoor unit	Außengerät	unité extérieure	unità esterna	unidad exterior
1	builteunit	Uomhusenhet	Udenbuds enhed	unidad exterior	Εξωτερική μονάδα
	Ulkoyksikkö	Vänkonst iordnoka	Внутреннее	jednostka zewnętrzna	-
2	indoor unit	Innengerät	unité intérieure	unità interna	unidad interior
	sisäyksikkö	Inomhusenhet	Indendørs enhed	unidad interior	Εσωτερική μονάδα
	Sisäyksikkö	Vnitřní jednotka	Внутреннее	jednostka wewnętrzna	-
	Medium-temperature application	Mitteltemperaturanwendung	l'application à moyenne température	la aplicación a media temperatura	la aplicación de media temperatura
3	middle-temperature-boasting	mitteltemperaturapplikation	middletemperatuurapplicatieën	a aplicación a media temperatura	η εφαρμογή σε μέση θερμοκρασία
	keskilämpötilan sovellus	středněteplotní aplikace	среднотемпературное применение	zastosowanie w średniej temperaturze	η εφαρμογή σε χαμηλή θερμοκρασία
4	low-temperature application	Niedertemperaturanwendung	l'application à basse température	la aplicación a bassa temperatura	la aplicación de baja temperatura
	alagtemperatuur-toedassing	lakttemperaturapplikation	l'application à basse température	a aplicación a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
	madaltemperatuuril sovellus	nizkotemperaturní aplikace	низкотемпературни приложения	zastosowanie w niskiej temperaturze	-
5	Decided load profile	Ausgeworfenes Lastprofil	Profil de soudeage décidé	Profilo di carico deciso	Perífil de carga decidido
	Sprekregen capaciteitsprofiel	Dekantet lastprofiel	Ардулет товарного профиля	Perífil de carga decidido	Διημερήσιο προφίλ φορτίου
	Ilmoitettu kuormitusprofiili	Dekantet lastprofiel	Объём товарного профиля	Perífil de carga decidido	-
	Seasonal space heating energy efficiency class	la classe pour le chauffage saisonnier	la classe d'efficacité énergétique saisonnière	la classe de efficienza energética estacional	la clase de eficiencia energética estacional de calefacción
6	de seizoenopgebonden energie-efficiëntieklasse voor ruimteverwarming	saisonsgesetste energieefficiëntieklasse voor ruimteverwarming	la classe d'efficacité énergétique pour le chauffage saisonnier	la classe de eficiencia energética do aquecimento ambiente sazonal	η τήξη ενεργειακής απόδοσης της εποχιακής θερμότητας χώρου
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la classe pour le chauffage saisonnier	la classe de eficiencia energética do aquecimento ambiente sazonal	η τήξη ενεργειακής απόδοσης της εποχιακής θερμότητας χώρου
	For space heating, annual energy consumption under average climate conditions	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen	la classe pour le chauffage de l'eau, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	la classe de eficiencia energética del riscaldamento dell'acqua	la clase de eficiencia energética del caledeo de agua
7	Water heating energy efficiency class	la classe für die Warmwasserbereitungs-Energieeffizienz	la classe pour le chauffage de l'eau	la classe de eficiencia energética do aquecimento de água	-
	de energie-efficiëntieklasse voor waterverwarming	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la classe pour le chauffage de l'eau, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	la classe de eficiencia energética do aquecimento de água	-
	vedelämmityksessä vuotuisen sähkökyläyksen lämmössä ilmasto-olosuhteissa	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	la classe pour le chauffage de l'eau, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	la classe de eficiencia energética do aquecimento de água	-
8	Rated heat output under average climate conditions	die Wärmeleistung bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal(en condiciones climáticas medias)	la potencia calorífica nominal(en condiciones climáticas medias)
	de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden)	Den nominella värmans värmeeffekt(under genomsnittliga klimatförhållanden)	den puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal(en condiciones climáticas medias)	η ονομαστική θερμική ισχύς(υπό μέσης κλιματικής συνθήκης)
	Ilmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	den puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal(en condiciones climáticas medias)	-
	For space heating, annual energy consumption under average climate conditions	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen	la classe pour le chauffage de l'eau, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	la potencia térmica nominal(en condiciones climáticas medias)	-
9	voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)	For ruimteverwarming, årlig energiforbruk(under genomsnittliga klimatförhållanden)	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	la potencia calorífica nominal en condiciones climáticas más altas
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	η ονομαστική θερμική ισχύς υπό υψηλότερες κλιματικές συνθήκες
	Rated heat output under average climate conditions	die Wärmeleistung bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	la potencia calorífica nominal en condiciones climáticas más altas
10	voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden)	For waterverwarming, årlig elforbruk(under genomsnittliga klimatförhållanden)	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	la potencia calorífica nominal en condiciones climáticas más altas
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	η ονομαστική θερμική ισχύς υπό υψηλότερες κλιματικές συνθήκες
	Seasonal space heating energy efficiency under average climate conditions	die Jahreszeibedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	-
11	de seizoenopgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	Saisonsgesetste energieeffizienz für raumverwarming(under genomsnittliga klimatförhållanden)	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	-
	Water heating energy efficiency under average climate conditions	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	-
12	de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden)	Energieeffizienz bei raumverwarming(under genomsnittliga klimatförhållanden)	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	-
	vedelämmityksessä energiatehokkuus(keskimääräisissä ilmasto-olosuhteissa)	energetisk effektivitet under rumvärmning i klimatiskt förhållande	la puissance thermique nominale pour le chauffage de l'eau	la potencia térmica nominal(en condiciones climáticas medias)	-
13	Sound power level L _{WA} indoor	der Schalleistungspegel L _{WA} in Gebäuden	le niveau de puissance acoustique L _{WA} à l'intérieur	el nivel de potencia sonora L _{WA} al interior	el nivel de potencia acústica L _{WA} en interiores
	hät gelüdsvermogeniveau L _{WA} binnen	Ljudeffektivitet L _{WA} i inomhus	le niveau de puissance acoustique L _{WA} à l'intérieur	el nivel de potencia sonora L _{WA} al interior	η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
	Ääniteho L _{WA} sisällä	Ljudeffektivitet L _{WA} i inomhus	le niveau de puissance acoustique L _{WA} à l'intérieur	el nivel de potencia sonora L _{WA} al interior	-
14	Work only during off-peak hours	hadra akustisk tillförläggelse bara under perioder med låg belastning	fonctionner uniquement pendant les heures creuses	rodzom pouze akustycznie L _{WA} w promiennosci	funcionar solamente durante las horas de baja demanda
	Work only during off-peak hours	driftas endast under perioder med låg belastning	fonctionner uniquement pendant les heures creuses	rodzom pouze akustycznie L _{WA} w promiennosci	λειτουργία μόνο εντός των ωρών χαμηλής
	komman anpassat kylvästysohjauksen aikatauluella	provoca pouze mimo provoz	fonctionner uniquement pendant les heures creuses	rodzom pouze akustycznie L _{WA} w promiennosci	-
	Rated heat output under colder climate conditions	die Wärmeleistung bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus froides	la potencia térmica nominal en condiciones climáticas más frías	-
15	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	For waterverwarming, årlig elförbrukning under kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus froides	la potencia térmica nominal en condiciones climáticas más frías	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus froides	la potencia térmica nominal en condiciones climáticas más frías	-
	Rated heat output under warmer climate conditions	die Wärmeleistung bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
16	de nominale warmteafgifte voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	die Wärmeleistung bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	For space heating, annual energy consumption under colder climate conditions	für die Raumheizung, den jährliche Energieverbrauch bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
17	voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere klimaatomstandigheden	For ruimteverwarming, årlig energiförbrukning under kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	For space heating, annual energy consumption under warmer climate conditions	für die Raumheizung, den jährliche Energieverbrauch bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
18	voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden	For ruimteverwarming, årlig energiförbrukning under wärmer klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	For water heating, annual energy consumption under colder climate conditions	für die Warmwasserbereitung, den jährliche Stromverbrauch bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
19	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	For waterverwarming, årlig elförbrukning under kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Rated heat output under warmer climate conditions	die Wärmeleistung bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	vedelämmityksessä vuotuisen sähkökyläyksen lämmössä ilmasto-olosuhteissa	pro only vodu – ochti srobya elektrické energie za chladnějších klimatických podmínek	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	For water heating, annual energy consumption under warmer climate conditions	für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
20	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	For waterverwarming, årlig elförbrukning under wärmer klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Seasonal space heating energy efficiency under colder climate conditions	die Jahreszeibedingte Raumheizungs-Energieeffizienz bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
21	de seizoenopgebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	Saisonsgesetste energieeffizienz für raumverwarming(under kallare klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Seasonal space heating energy efficiency under warmer climate conditions	die Jahreszeibedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
22	de seizoenopgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	Saisonsgesetste energieeffizienz für raumverwarming(under wärmer klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Water heating energy efficiency under colder climate conditions	die Warmwasserbereitungs-Energieeffizienz bei kalteren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
23	de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	Energieeffizienz bei raumverwarming(under kallare klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	vedelämmityksessä energiatehokkuus kylmissä ilmasto-olosuhteissa	energetisk effektivitet under rumvärmning i kallare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Water heating energy efficiency under warmer climate conditions	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	Energieeffizienz bei raumverwarming(under wärmer klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Ilälmälämpötila-olosuhteissa ilmasto-olosuhteissa	gemäß den klimatischen Bedingungen im Raumklima	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
24	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	Energieeffizienz bei raumverwarming(under wärmer klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	vedelämmityksessä energiatehokkuus lämpimissä ilmasto-olosuhteissa	energetisk effektivitet under rumvärmning i varmare klimatförhållanden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia térmica nominal en condiciones climáticas más calidas	-
	Sound power level L _{WA} outdoor	der Schalleistungspegel L _{WA} im Freien	le niveau de puissance acoustique L _{WA} à l'extérieur	el nivel de potencia sonora L _{WA} al exterior	el nivel de potencia acústica L _{WA} en exteriores
25	het gelüdsvermogeniveau L _{WA} buiten	Ljudeffektivitet L _{WA} utomhus	le niveau de puissance acoustique L _{WA} à l'extérieur	el nivel de potencia sonora L _{WA} al exterior	η στάθμη ηχητικής ισχύος L _{WA} εξωτερικού χώρου
	Ääniteho L _{WA} ulkona	Hadra akustisk tillförläggelse utomhus	le niveau de puissance acoustique L _{WA} à l'extérieur	el nivel de potencia sonora L _{WA} al exterior	-

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	131	%
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	10.7	kW	Tj = - 7 ° C	COPd	1.87	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4.65	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	3.8	kW	Tj = +12 ° C	COPd	6.20	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{T0}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

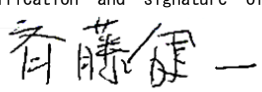
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7485	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				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
The identification and signature of the person empowered to bind the supplier:				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-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	176	%			
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	10.7	kW	Tj = - 7 ° C	COPd	2.75	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.50	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.00	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.00	-			
Degradation co-efficient (**)	Cdh	0.96	-							
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	2.75	-			
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.4	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	5600	kWh	-		2640	m ³ /h			

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				

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-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	109	%
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	7.3	kW	Tj = - 7 °C	COPd	2.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.40	-
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.60	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.80	-
Tj = + 7 °C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.30	-
Tj = +12 °C	Pdh	4.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.40	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	9.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	7.8	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	8.9	kW				
Bivalent temperature	Tbiv	-13	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.3	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors	-	2640	m³/h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10698	kWh				

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

Contact details				Mitsubishi Electric Air Conditioning Systems Manufacturing Turkey Joint Stock Company			
				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
The identification and signature of the person empowered to bind the supplier:				Kenichi SAITO			
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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-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	140	%
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	7.3	kW	Tj = - 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.00	-
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.50	-
Tj = + 7 °C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	1.95	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	5.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.0	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	kW				
Bivalent temperature	Tbiv	-16	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.1	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8316	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	153	%			
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	Pdh	12.1	kW	Tj = + 2 ° C	COPd	1.95	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.2	kW	Tj = +12 ° C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.95	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.95	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4157	kWh	-						
				2640						
				m ³ /h						

For heat pump combination heater:

Declared load profile	–			Water heating energy efficiency	η_{wh}	–	%
Daily electricity consumption	Qelec	–	kWh				
Annual electricity consumption	AEC	–	kWh				

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-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	218	%			
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	Pdh	12.1	kW	Tj = + 2 ° C	COPd	3.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.10	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2922	kWh	-						
				2640						
				m³/h						

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				

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-SWM120YAA
	Indoor unit:	ERSD-****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	12.1	kW	Seasonal space heating energy efficiency	η_s	132	%
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	10.7	kW	Tj = - 7 °C	COPd	1.87	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 °C	Pdh	6.5	kW	Tj = + 2 °C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	4.65	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	3.8	kW	Tj = +12 °C	COPd	6.20	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	-10	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7404	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				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY

Manisa OSB 4.Kisim Kencilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey

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

Kenichi SAITO
Manager, Quality Assurance Department
TURKEY

斉藤 健一

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

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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-SWM120YAA
	Indoor unit:	ERSD-****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	12.1	kW	Seasonal space heating energy efficiency	η_s	178	%			
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	10.7	kW	Tj = - 7 ° C	COPd	2.75	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.50	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.00	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.00	-			
Degradation co-efficient (**)	Cdh	0.96	-							
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	2.75	-			
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.4	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	5520	kWh	-		2640	m ³ /h			

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				

Contact details

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The signature is signed in the average climate / medium-temperature section.	Manager, Quality Assurance Department
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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-SWM120YAA
	Indoor unit:	ERSD-****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	12.1	kW	Seasonal space heating energy efficiency	η_s	109	%
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}	7.3	kW	T _j = - 7 °C	COP _d	2.50	–
Degradation co-efficient (**)	C _{dh}	0.99	–	T _j = + 2 °C	COP _d	3.40	–
T _j = + 2 °C	P _{dh}	4.4	kW	T _j = + 7 °C	COP _d	4.60	–
Degradation co-efficient (**)	C _{dh}	0.98	–	T _j = +12 °C	COP _d	6.80	–
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	1.45	–
Degradation co-efficient (**)	C _{dh}	0.97	–	T _j = operation limit temperature (***)	COP _d	1.30	–
T _j = +12 °C	P _{dh}	4.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.40	–
Degradation co-efficient (**)	C _{dh}	0.97	–	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	9.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	7.8	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.9	kW				
Bivalent temperature	T _{biv}	-13	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	4.3	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	–	2640	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10649	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				

Contact details

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(**) 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:	PUZ-SWM120YAA
	Indoor unit:	ERSD-****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	12.1	kW	Seasonal space heating energy efficiency	η_s	141	%
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	7.3	kW	Tj = - 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.00	-
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.50	-
Tj = + 7 °C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	1.95	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	5.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.0	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	kW				
Bivalent temperature	Tbiv	-16	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.1	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8267	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:	PUZ-SWM120YAA
	Indoor unit:	ERSD-****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	12.1	kW	Seasonal space heating energy efficiency	η_s	156	%			
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	Pdh	12.1	kW	Tj = + 2 ° C	COPd	1.95	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.2	kW	Tj = +12 ° C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.95	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.95	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4060	kWh	-						
				2640						
				m ³ /h						

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

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-SWM120YAA
	Indoor unit:	ERSD-****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	12.1	kW	Seasonal space heating energy efficiency	η_s	226	%
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	Pdh	12.1	kW	Tj = + 2 °C	COPd	3.10	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	5.10	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.10	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.10	-
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.10	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	2825	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				

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-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	131	%
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	10.7	kW	Tj = - 7 ° C	COPd	1.87	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4.65	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	3.8	kW	Tj = +12 ° C	COPd	6.20	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{T0}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

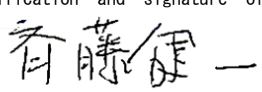
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7485	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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(**) 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-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	176	%
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	10.7	kW	Tj = - 7 ° C	COPd	2.75	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.50	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.00	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	2.75	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	2.40	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2640	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	5600	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				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey
The identification and signature of the person empowered to bind the supplier;	Kenichi SAITO
The signature is signed in the average climate / medium-temperature section.	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-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	109	%
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}	7.3	kW	T _j = - 7 °C	COP _d	2.50	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	3.40	-
T _j = + 2 °C	P _{dh}	4.4	kW	T _j = + 7 °C	COP _d	4.60	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	6.80	-
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = bivalent temperature	COP _d	1.45	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature (***)	COP _d	1.30	-
T _j = +12 °C	P _{dh}	4.4	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.40	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	9.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	7.8	kW				
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.9	kW				
Bivalent temperature	T _{biv}	-13	°C				
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	4.3	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10698	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				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey
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(**) 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:	PUZ-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	140	%
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}	7.3	kW	T _j = - 7 °C	COP _d	3.50	-
Degradation co-efficient (**)	C _{dh}	0.99	-	T _j = + 2 °C	COP _d	4.00	-
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 7 °C	COP _d	5.20	-
Degradation co-efficient (**)	C _{dh}	0.98	-	T _j = +12 °C	COP _d	7.50	-
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = bivalent temperature	COP _d	1.95	-
Degradation co-efficient (**)	C _{dh}	0.97	-	T _j = operation limit temperature (***)	COP _d	1.50	-
T _j = +12 °C	P _{dh}	5.5	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.97	-	Operation limit temperature	TOL	-25	°C
T _j = bivalent temperature	P _{dh}	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{dh}	8.0	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				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	4.1	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors	-	2640	m³/h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8316	kWh				

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

Contact details				Mitsubishi Electric Air Conditioning Systems Manufacturing Turkey Joint Stock Company			
				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
The identification and signature of the person empowered to bind the supplier:				Kenichi SAITO			
The signature is signed in the average climate / medium-temperature section.				Manager, Quality Assurance Department			
				TURKEY			

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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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	153	%			
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	Pdh	12.1	kW	Tj = + 2 °C	COPd	1.95	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 °C	Pdh	5.2	kW	Tj = +12 °C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.95	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.95	-			
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C			
Reference design conditions for space heating	Tdesignh	2	°C	Heating water operating limit temperature	WTOL	60	°C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4157	kWh	-						
				2640						
				m ³ /h						

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				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey
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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:	PUZ-SWM120YAA
	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	12.1	kW	Seasonal space heating energy efficiency	η_s	218	%			
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	Pdh	12.1	kW	Tj = + 2 ° C	COPd	3.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.10	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2922	kWh	-						
For heat pump combination heater:				2640						
Declared load profile	-			m³/h						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency						
Annual electricity consumption	AEC	-	kWh	η_{wh}						
Contact details				-						
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY				-						

The identification and signature of the person empowered to bind the supplier:				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
The signature is signed in the average climate / medium-temperature section.				Kenichi SAITO			
				Manager, Quality Assurance Department			
				TURKEY			

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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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM120YAA
	Indoor unit:	ERSD-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	12.1	kW	Seasonal space heating energy efficiency	η_s	132	%
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	10.7	kW	Tj = - 7 ° C	COPd	1.87	-
Degradation co-efficient (**)	Cdh	1.00	-				
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	3.33	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 ° C	Pdh	5.0	kW	Tj = + 7 ° C	COPd	4.65	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 ° C	Pdh	3.8	kW	Tj = +12 ° C	COPd	6.20	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	1.87	-
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	1.55	-
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	1.4	kW
Thermostat-off mode	P _{T0}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

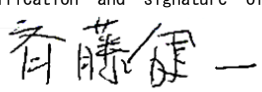
Other items

Capacity control	variable			Rated air flow rate, outdoors	-	2640	m³/h
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	7404	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				

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, 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-SWM120YAA
	Indoor unit:	ERSD-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	12.1	kW	Seasonal space heating energy efficiency	η_s	178	%			
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	10.7	kW	Tj = - 7 ° C	COPd	2.75	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 2 ° C	Pdh	6.5	kW	Tj = + 2 ° C	COPd	4.50	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	5.2	kW	Tj = + 7 ° C	COPd	6.00	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = +12 ° C	Pdh	4.0	kW	Tj = +12 ° C	COPd	7.00	-			
Degradation co-efficient (**)	Cdh	0.96	-							
Tj = bivalent temperature	Pdh	10.7	kW	Tj = bivalent temperature	COPd	2.75	-			
Tj = operation limit temperature (***)	Pdh	10.7	kW	Tj = operation limit temperature (***)	COPd	2.40	-			
Bivalent temperature	Tbiv	-7	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	-10	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	1.4	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	5520	kWh	-		2640	m ³ /h			

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				

Contact details							
MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvari No:19 Yunusemre - Manisa, Turkey			
The identification and signature of the person empowered to bind the supplier;				Kenichi SAITO			
The signature is signed in the average climate / medium-temperature section.				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-SWM120YAA
	Indoor unit:	ERSD-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	12.1	kW	Seasonal space heating energy efficiency	η_s	109	%
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	7.3	kW	Tj = - 7 °C	COPd	2.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.40	-
Tj = + 2 °C	Pdh	4.4	kW	Tj = + 7 °C	COPd	4.60	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.80	-
Tj = + 7 °C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.45	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.30	-
Tj = +12 °C	Pdh	4.4	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.40	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	9.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	7.8	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	8.9	kW				
Bivalent temperature	Tbiv	-13	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.3	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	10649	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh				
Annual electricity consumption	AEC	-	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.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM120YAA
	Indoor unit:	ERSD-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	12.1	kW	Seasonal space heating energy efficiency	η_s	141	%
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	7.3	kW	Tj = - 7 °C	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.00	-
Tj = + 2 °C	Pdh	4.5	kW	Tj = + 7 °C	COPd	5.20	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	7.50	-
Tj = + 7 °C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	1.95	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	5.5	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.97	-	Operation limit temperature	TOL	-25	°C
Tj = bivalent temperature	Pdh	10.2	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	8.0	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	9.9	kW				
Bivalent temperature	Tbiv	-16	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	4.1	kW
Thermostat-off mode	P _{TO}	0.022	kW	Type of energy input	Electrical		
Standby mode	P _{SB}	0.022	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m³/h	
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA				
Annual energy consumption	Q _{HE}	8267	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	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:	PUZ-SWM120YAA
	Indoor unit:	ERSD-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	12.1	kW	Seasonal space heating energy efficiency	η_s	156	%			
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	Pdh	12.1	kW	Tj = + 2 ° C	COPd	1.95	-			
Degradation co-efficient (**)	Cdh	1.00	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	3.30	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	5.2	kW	Tj = +12 ° C	COPd	5.40	-			
Degradation co-efficient (**)	Cdh	0.98	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	1.95	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	1.95	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	Psup	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	4060	kWh	-						
For heat pump combination heater:				2640						
Declared load profile	-			m³/h						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency						
Annual electricity consumption	AEC	-	kWh	η_{wh}						
Contact details				-						

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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-SWM120YAA
	Indoor unit:	ERSD-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	12.1	kW	Seasonal space heating energy efficiency	η_s	226	%			
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	Pdh	12.1	kW	Tj = + 2 ° C	COPd	3.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = + 7 ° C	Pdh	7.7	kW	Tj = + 7 ° C	COPd	5.10	-			
Degradation co-efficient (**)	Cdh	0.99	-							
Tj = +12 ° C	Pdh	4.4	kW	Tj = +12 ° C	COPd	7.10	-			
Degradation co-efficient (**)	Cdh	0.97	-							
Tj = bivalent temperature	Pdh	12.1	kW	Tj = bivalent temperature	COPd	3.10	-			
Tj = operation limit temperature (***)	Pdh	12.1	kW	Tj = operation limit temperature (***)	COPd	3.10	-			
Bivalent temperature	Tbiv	2	° C	Operation limit temperature	TOL	-25	° C			
Reference design conditions for space heating	Tdesignh	2	° C	Heating water operating limit temperature	WTOL	60	° C			
Power consumption in modes other than active mode				Supplementary heater						
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW			
Thermostat-off mode	P _{TO}	0.022	kW							
Standby mode	P _{SB}	0.022	kW							
Crankcase heater mode	P _{CK}	0.000	kW							
Other items				Type of energy input						
Capacity control	variable			Electrical						
Sound power level, indoors/outdoors	L _{WA}	41 / 58	dBA	Rated air flow rate, outdoors						
Annual energy consumption	Q _{HE}	2825	kWh	-						
				2640						
				m³/h						

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 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}.