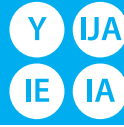


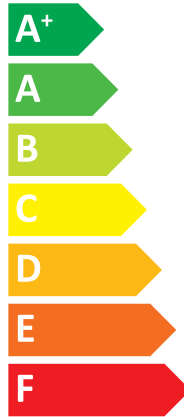
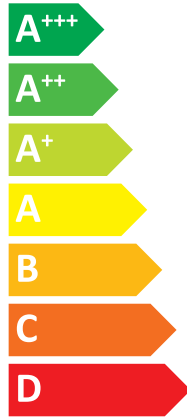
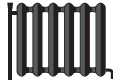


ENERG

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Indoor unit E*ST30D-****D
Outdoor unit PUZ-SHWM100VAA



Two sound power level icons:

- Indoor unit: 41 dB
- Outdoor unit: 58 dB



Legend for power consumption:

- Dark blue square: 10 kW
- Medium blue square: 10 kW
- Light blue square: 10 kW

2019

811/2013

DG79V341H31



PRODUCT FICHE

Mitsubishi Electric Erp Directive Related Product Information: erp.mitsubishielectric.eu/erp
Details and precautions on installation, maintenance and assembly can be found in the installation and/or operation manuals.
This information is based on EU regulation No 811/2013 and No 813/2013.

DG79A02MH01

Table 1: SPACE HEATER. Columns: Outdoor unit, Indoor unit, Medium-temperature application (3-25), Low-temperature application (4-25). Rows: Various models like PUZ-SWM60VAA, PUZ-SWM80VAA, etc.

Table 2: COMBINATION HEATER. Columns: Outdoor unit, Indoor unit, Medium-temperature application (3-25), Low-temperature application (4-25). Rows: Various models like PUZ-SWM60VAA, PUZ-SWM80VAA, etc.

English	Deutsch	Franglais	Italiano	Espanol
Nederlands	Svenska	Dansk	Portugues	Espanol
suomi	Castina	Български	Polski	Ελληνικά
Outdoor unit	Außengerät	unité extérieure	unita esterna	unidad exterior
1	Utlomsenhet	Utlomsens enhed	unidad exterior	Εξωτερική μονάδα
Ulkoyksykko	Värmohjelmhetta	Внешний тепло	jednostka zewnętrzna	unidad interior
2	Indoor unit	unité intérieure	unidad interior	Εσωτερική μονάδα
Внутренний блок	Indoor unit	Indoor unit	unidad interior	Εσωτερική μονάδα
3	Medium-temperature application	Mitteltemperaturanwendung	aplicación de media temperatura	la aplicación de media temperatura
keskilämpötilan sovellus	mittelmitteltemperaturlämpling	middletemperature application	a aplicação a media temperatura	η εφαρμογή σε μέση θερμοκρασία
4	Low-temperature application	Niedertemperaturanwendung	aplicação a baixa temperatura	la aplicación de baja temperatura
aladelämpötilan sovellus	nedertemperaturämpling	lowtemperature application	a aplicação a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
5	Overheated load profile	Aufgeheiztes Lastprofil	Perfil de carga sobrecalentado	Perfil de carga sobrecalentado
Syrjäveden varustelu	Überhitztes Lastprofil	Профиль нагрузки с перегревом	Perfil de carga sobrecalentado	Διευθετικό προφίλ φορτίου
6	Seasonal space heating energy efficiency class	la classe de efficacité énergétique saisonnière	la classe de efficacité énergétique saisonnière	la classe de efficacité énergétique saisonnière
de seizoenruimteverwarming energie-efficiëntieklasse	la classe de efficacité énergétique saisonnière	la classe de efficacité énergétique saisonnière	la classe de efficacité énergétique saisonnière	la classe de efficacité énergétique saisonnière
7	Water heating energy efficiency class	la classe de efficacité énergétique	la classe de efficacité énergétique	la classe de efficacité énergétique
de energie-efficiëntieklasse voor waterverwarming	la classe de efficacité énergétique	la classe de efficacité énergétique	la classe de efficacité énergétique	la classe de efficacité énergétique
8	Rated heat output under average climate conditions	la puissance thermique nominale dans les conditions climatiques moyennes	la puissance thermique nominale dans les conditions climatiques moyennes	la puissance thermique nominale dans les conditions climatiques moyennes
de nominale warmteafvoer (onder gemiddelde klimaatomstandigheden)	la puissance thermique nominale dans les conditions climatiques moyennes	la puissance thermique nominale dans les conditions climatiques moyennes	la puissance thermique nominale dans les conditions climatiques moyennes	la puissance thermique nominale dans les conditions climatiques moyennes
9	For space heating, annual energy consumption under average climate conditions	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas medias)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas medias)
voor waterverwarming, het jaarlijkse elektriciteitsverbruik (onder gemiddelde klimaatomstandigheden)	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas medias)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas medias)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas medias)
10	For water heating, annual electricity consumption under average climate conditions	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas medias)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas medias)
voor waterverwarming, het jaarlijkse elektriciteitsverbruik (onder gemiddelde klimaatomstandigheden)	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques moyennes)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas medias)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas medias)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas medias)
11	Seasonal space heating energy efficiency under average climate conditions	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques moyennes)	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques moyennes)	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas medias
de seizoenruimteverwarming energie-efficiëntie voor gemiddelde klimaatomstandigheden	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques moyennes)	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques moyennes)	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas medias	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas medias
12	de energie-efficiëntie voor waterverwarming (onder gemiddelde klimaatomstandigheden)	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques moyennes)	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques moyennes)	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas medias
13	Sound power level L _{WA, indoor}	le niveau de puissance acoustique L _{WA, à l'intérieur}	el nivel de potencia acústica L _{WA, en interiores}	el nivel de potencia acústica L _{WA, en interiores}
het geluidsvormingsniveau L _{WA, binnen}	le niveau de puissance acoustique L _{WA, à l'intérieur}	el nivel de potencia acústica L _{WA, en interiores}	el nivel de potencia acústica L _{WA, en interiores}	el nivel de potencia acústica L _{WA, en interiores}
14	Wetken uitstulsel in de dalen	fonctionnel du ou des buses	funcional do ou dos bocais	funcional do ou dos bocais
Wetken uitstulsel in de dalen	fonctionnel du ou des buses	funcional do ou dos bocais	funcional do ou dos bocais	funcional do ou dos bocais
15	Normale luchten warmteafvoer onder koude klimaatomstandigheden	la puissance thermique nominale dans les conditions climatiques plus froides	la puissance thermique nominale dans les conditions climatiques plus froides	la potencia calorífica nominal en condiciones climáticas más frías
de nominale warmteafvoer onder koude klimaatomstandigheden	la puissance thermique nominale dans les conditions climatiques plus froides	la puissance thermique nominale dans les conditions climatiques plus froides	la puissance calorífica nominal en condiciones climáticas más frías	la potencia calorífica nominal en condiciones climáticas más frías
16	Normale luchten warmteafvoer onder warme klimaatomstandigheden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la puissance thermique nominale dans les conditions climatiques plus chaudes	la potencia calorífica nominal en condiciones climáticas más calidas
de nominale warmteafvoer onder warme klimaatomstandigheden	la puissance thermique nominale dans les conditions climatiques plus chaudes	la puissance thermique nominale dans les conditions climatiques plus chaudes	la puissance calorífica nominal en condiciones climáticas más calidas	la potencia calorífica nominal en condiciones climáticas más calidas
17	voor ruimteverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques plus froides)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas más frías)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más frías)
voor ruimteverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques plus froides)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas más frías)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más frías)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más frías)
18	voor ruimteverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques plus chaudes)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas más calidas)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más calidas)
voor ruimteverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques plus chaudes)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas más calidas)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más calidas)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más calidas)
19	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques plus froides)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas más frías)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más frías)
voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques plus froides)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas más frías)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más frías)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más frías)
20	voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques plus chaudes)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas más calidas)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más calidas)
voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	pour le chauffage de l'eau, la consommation annuelle d'électricité (dans les conditions climatiques plus chaudes)	para el aquecimiento de agua, el consumo anual de electricidad (en condiciones climáticas más calidas)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más calidas)	para calefacción espacial, el consumo anual de electricidad (en condiciones climáticas más calidas)
21	de seizoenruimteverwarming energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques plus froides)	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más frías	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más frías
de seizoenruimteverwarming energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques plus froides)	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más frías	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más frías	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más frías
22	de seizoenruimteverwarming energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques plus chaudes)	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más calidas	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más calidas
de seizoenruimteverwarming energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	l'efficacité énergétique saisonnière pour le chauffage de l'eau (dans les conditions climatiques plus chaudes)	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más calidas	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más calidas	l'eficiencia energética de calefacción estacional de calefacción en condiciones climáticas más calidas
23	de energie-efficiëntie voor waterverwarming onder koude klimaatomstandigheden	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	l'eficiencia energética de calefacción para el agua en condiciones climáticas más frías	l'eficiencia energética de calefacción para el agua en condiciones climáticas más frías
de energie-efficiëntie voor waterverwarming onder koude klimaatomstandigheden	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	l'eficiencia energética de calefacción para el agua en condiciones climáticas más frías	l'eficiencia energética de calefacción para el agua en condiciones climáticas más frías	l'eficiencia energética de calefacción para el agua en condiciones climáticas más frías
24	de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	l'eficiencia energética de calefacción para el agua en condiciones climáticas más calidas	l'eficiencia energética de calefacción para el agua en condiciones climáticas más calidas
de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	l'eficiencia energética de calefacción para el agua en condiciones climáticas más calidas	l'eficiencia energética de calefacción para el agua en condiciones climáticas más calidas	l'eficiencia energética de calefacción para el agua en condiciones climáticas más calidas
25	Sound power level L _{WA, outdoor}	le niveau de puissance acoustique L _{WA, à l'extérieur}	el nivel de potencia acústica L _{WA, en exteriores}	el nivel de potencia acústica L _{WA, en exteriores}
het geluidsvormingsniveau L _{WA, buiten}	le niveau de puissance acoustique L _{WA, à l'extérieur}	el nivel de potencia acústica L _{WA, en exteriores}	el nivel de potencia acústica L _{WA, en exteriores}	el nivel de potencia acústica L _{WA, en exteriores}

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

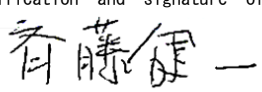
Model(s):	Outdoor unit:	PUZ-SHWM100VAA
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	136	%
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	8.9	kW	Tj = - 7 ° C	COPd	2.19	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 ° C	COPd	3.38	-
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 7 ° C	COPd	4.62	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.30	-
Tj = + 7 ° C	Pdh	4.8	kW	Tj = bivalent temperature	COPd	1.69	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.69	-
Tj = +12 ° C	Pdh	2.9	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	5936	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	133	%	
Daily electricity consumption	Q _{elec}	6.380	kWh				
Annual electricity consumption	AEC	1404	kWh				

Contact details
 MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY
 Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusemre - Manisa, Turkey

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-SHWM100VAA
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	183	%
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	8.9	kW	Tj = - 7 ° C	COPd	3.10	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 ° C	COPd	4.62	-
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.96	-
Tj = + 7 ° C	Pdh	5.2	kW	Tj = bivalent temperature	COPd	2.49	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.49	-
Tj = +12 ° C	Pdh	3.2	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	° C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	4444	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	133	%	
Daily electricity consumption	Q _{elec}	6.380	kWh				
Annual electricity consumption	AEC	1404	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-SHWM100VAA
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	116	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	6.1	kW	Tj = - 7 ° C	COPd	2.62	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 ° C	COPd	3.50	-
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	4.59	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.88	-
Tj = + 7 ° C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.57	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.59	-
Tj = +12 ° C	Pdh	4.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.57	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	° C
Tj = bivalent temperature	Pdh	8.4	kW	Heating water operating limit temperature	WTOL	60	° C
Tj = operation limit temperature (***)	Pdh	8.0	kW	Supplementary heater			
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8.2	kW	Rated heat output (*)	Psup	2.0	kW
Bivalent temperature	Tbiv	-16	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	8272	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	111	%	
Daily electricity consumption	Q _{elec}	7.500	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 Bulvarı 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-SHWM100VAA
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	6.2	kW	Tj = - 7 ° C	COPd	3.71	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 ° C	COPd	4.35	-
Tj = + 2 ° C	Pdh	4.1	kW	Tj = + 7 ° C	COPd	5.34	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 ° C	COPd	7.50	-
Tj = + 7 ° C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.57	-
Tj = +12 ° C	Pdh	4.5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	° C
Tj = bivalent temperature	Pdh	8.4	kW	Heating water operating limit temperature	WTOL	60	° C
Tj = operation limit temperature (***)	Pdh	7.7	kW	Supplementary heater			
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8.2	kW	Rated heat output (*)	Psup	2.3	kW
Bivalent temperature	Tbiv	-16	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	6480	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	111	%	
Daily electricity consumption	Q _{elec}	7.500	kWh				
Annual electricity consumption	AEC	0	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-SHWM100VAA
	Indoor unit:	EHST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	164	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 ° C	COPd	2.10	-
Tj = + 2 ° C	Pdh	10.0	kW	Tj = + 7 ° C	COPd	3.53	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 ° C	COPd	5.75	-
Tj = + 7 ° C	Pdh	6.4	kW	Tj = bivalent temperature	COPd	2.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	2.10	-
Tj = +12 ° C	Pdh	4.2	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	3204	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	155	%	
Daily electricity consumption	Q _{elec}	5.600	kWh				
Annual electricity consumption	AEC		kWh				

Contact details				Mitsubishi Electric Air Conditioning Systems Manufacturing Turkey Joint Stock Company			
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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-SHWM100VAA
	Indoor unit:	EHST30D-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	236	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 ° C	COPd	3.50	-
Tj = + 2 ° C	Pdh	10.0	kW	Tj = + 7 ° C	COPd	5.55	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 ° C	COPd	7.54	-
Tj = + 7 ° C	Pdh	6.4	kW	Tj = bivalent temperature	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	3.50	-
Tj = +12 ° C	Pdh	4.4	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	2233	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	155	%	
Daily electricity consumption	Q _{elec}	5.600	kWh				
Annual electricity consumption	AEC	0	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-SHWM100VAA
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	138	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature 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	8.9	kW	Tj = - 7 ° C	COPd	2.19	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 ° C	COPd	3.38	-
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 7 ° C	COPd	4.62	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.30	-
Tj = + 7 ° C	Pdh	4.8	kW	Tj = bivalent temperature	COPd	1.69	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.69	-
Tj = +12 ° C	Pdh	2.9	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	5881	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	133	%	
Daily electricity consumption	Q _{elec}	6.380	kWh				
Annual electricity consumption	AEC	1404	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-SHWM100VAA
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	185	%
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	8.9	kW	Tj = - 7 ° C	COPd	3.10	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 ° C	COPd	4.62	-
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.96	-
Tj = + 7 ° C	Pdh	5.2	kW	Tj = bivalent temperature	COPd	2.49	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.49	-
Tj = +12 ° C	Pdh	3.2	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	° C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	4389	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	133	%	
Daily electricity consumption	Q _{elec}	6.380	kWh				
Annual electricity consumption	AEC	1404	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-SHWM100VAA
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	117	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	6.1	kW	Tj = - 7 ° C	COPd	2.62	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 ° C	COPd	3.50	-
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	4.59	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.88	-
Tj = + 7 ° C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.57	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.59	-
Tj = +12 ° C	Pdh	4.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.57	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	° C
Tj = bivalent temperature	Pdh	8.4	kW	Heating water operating limit temperature	WTOL	60	° C
Tj = operation limit temperature (***)	Pdh	8.0	kW	Supplementary heater			
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8.2	kW	Rated heat output (*)	Psup	2.0	kW
Bivalent temperature	Tbiv	-16	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	8239	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	111	%	
Daily electricity consumption	Q _{elec}	7.500	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-SHWM100VAA
	Indoor unit:	ERST30D-****D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	150	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	6.2	kW	Tj = - 7 ° C	COPd	3.71	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 ° C	COPd	4.35	-
Tj = + 2 ° C	Pdh	4.1	kW	Tj = + 7 ° C	COPd	5.34	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 ° C	COPd	7.50	-
Tj = + 7 ° C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.57	-
Tj = +12 ° C	Pdh	4.5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	° C
Tj = bivalent temperature	Pdh	8.4	kW	Heating water operating limit temperature	WTOL	60	° C
Tj = operation limit temperature (***)	Pdh	7.7	kW	Supplementary heater			
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8.2	kW	Rated heat output (*)	Psup	2.3	kW
Bivalent temperature	Tbiv	-16	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	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}	/ 58	dBA			
Annual energy consumption	Q _{HE}	6447	kWh			

For heat pump combination heater:

Declared load profile	XL		Water heating energy efficiency	η_{wh}	111	%
Daily electricity consumption	Q _{elec}	7.500	kWh			
Annual electricity consumption	AEC	0	kWh			

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY	Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvarı 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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(**) 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-SHWM100VAA
	Indoor unit:	ERST30D-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	167	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 ° C	COPd	2.10	-
Tj = + 2 ° C	Pdh	10.0	kW	Tj = + 7 ° C	COPd	3.53	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 ° C	COPd	5.75	-
Tj = + 7 ° C	Pdh	6.4	kW	Tj = bivalent temperature	COPd	2.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	2.10	-
Tj = +12 ° C	Pdh	4.2	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	3138	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	155	%	
Daily electricity consumption	Q _{elec}	5.600	kWh				
Annual electricity consumption	AEC		kWh				

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-SHWM100VAA
	Indoor unit:	ERST30D-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	244	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 ° C	COPd	3.50	-
Tj = + 2 ° C	Pdh	10.0	kW	Tj = + 7 ° C	COPd	5.55	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 ° C	COPd	7.54	-
Tj = + 7 ° C	Pdh	6.4	kW	Tj = bivalent temperature	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	3.50	-
Tj = +12 ° C	Pdh	4.4	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	2167	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	155	%	
Daily electricity consumption	Q _{elec}	5.600	kWh				
Annual electricity consumption	AEC	0	kWh				

Contact details				Mitsubishi Electric Air Conditioning Systems Manufacturing Turkey Joint Stock Company			
				Manisa OSB 4.Kisim Kecilikoyosb Mah. Ahmet Nazif Zorlu Bulvarı 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

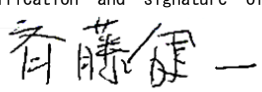
Model(s):	Outdoor unit:	PUZ-SHWM100VAA
	Indoor unit:	EHST30D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	136	%
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	8.9	kW	Tj = - 7 ° C	COPd	2.19	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 ° C	COPd	3.38	-
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 7 ° C	COPd	4.62	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.30	-
Tj = + 7 ° C	Pdh	4.8	kW	Tj = bivalent temperature	COPd	1.69	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.69	-
Tj = +12 ° C	Pdh	2.9	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	5936	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	133	%	
Daily electricity consumption	Q _{elec}	6.380	kWh				
Annual electricity consumption	AEC	1404	kWh				

Contact details
 MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY
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 Kenichi SAITO
 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-SHWM100VAA
	Indoor unit:	EHST30D-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:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	183	%
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	8.9	kW	Tj = - 7 ° C	COPd	3.10	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = + 2 ° C	COPd	4.62	-
Tj = + 2 ° C	Pdh	5.4	kW	Tj = + 7 ° C	COPd	6.00	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.96	-
Tj = + 7 ° C	Pdh	5.2	kW	Tj = bivalent temperature	COPd	2.49	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	2.49	-
Tj = +12 ° C	Pdh	3.2	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	-10	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	4444	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	133	%	
Daily electricity consumption	Q _{elec}	6.380	kWh				
Annual electricity consumption	AEC	1404	kWh				

Contact details				MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY JOINT STOCK COMPANY			
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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-SHWM100VAA
	Indoor unit:	EHST30D-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:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	116	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	6.1	kW	Tj = - 7 ° C	COPd	2.62	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 ° C	COPd	3.50	-
Tj = + 2 ° C	Pdh	4.0	kW	Tj = + 7 ° C	COPd	4.59	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 ° C	COPd	6.88	-
Tj = + 7 ° C	Pdh	3.8	kW	Tj = bivalent temperature	COPd	1.57	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.59	-
Tj = +12 ° C	Pdh	4.4	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	1.57	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	° C
Tj = bivalent temperature	Pdh	8.4	kW	Heating water operating limit temperature	WTOL	60	° C
Tj = operation limit temperature (***)	Pdh	8.0	kW	Supplementary heater			
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8.2	kW	Rated heat output (*)	Psup	2.0	kW
Bivalent temperature	Tbiv	-16	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	8272	kWh				

For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	111	%
Daily electricity consumption	Q _{elec}	7.500	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-SHWM100VAA
	Indoor unit:	EHST30D-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:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	149	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	6.2	kW	Tj = - 7 ° C	COPd	3.71	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 ° C	COPd	4.35	-
Tj = + 2 ° C	Pdh	4.1	kW	Tj = + 7 ° C	COPd	5.34	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 ° C	COPd	7.50	-
Tj = + 7 ° C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.57	-
Tj = +12 ° C	Pdh	4.5	kW	Tj = - 15 ° C (if TOL < - 20 ° C)	COPd	2.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Operation limit temperature	TOL	-30	° C
Tj = bivalent temperature	Pdh	8.4	kW	Heating water operating limit temperature	WTOL	60	° C
Tj = operation limit temperature (***)	Pdh	7.7	kW	Supplementary heater			
Tj = - 15 ° C (if TOL < - 20 ° C)	Pdh	8.2	kW	Rated heat output (*)	Psup	2.3	kW
Bivalent temperature	Tbiv	-16	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	6480	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	111	%	
Daily electricity consumption	Q _{elec}	7.500	kWh				
Annual electricity consumption	AEC	0	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-SHWM100VAA
	Indoor unit:	EHST30D-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:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	164	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 ° C	COPd	2.10	-
Tj = + 2 ° C	Pdh	10.0	kW	Tj = + 7 ° C	COPd	3.53	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 ° C	COPd	5.75	-
Tj = + 7 ° C	Pdh	6.4	kW	Tj = bivalent temperature	COPd	2.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	2.10	-
Tj = +12 ° C	Pdh	4.2	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.98	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	/ 58	dBA				
Annual energy consumption	Q _{HE}	3204	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	XL			η_{wh}	155	%	
Daily electricity consumption	Q _{elec}	5.600	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 Bulvarı 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-SHWM100VAA
	Indoor unit:	EHST30D-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:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	236	%
Declared capacity for heating for part load at indoor temperature 20 ° C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 ° C and outdoor temperature Tj			
Tj = - 7 ° C	Pdh	-	kW	Tj = - 7 ° C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 ° C	COPd	3.50	-
Tj = + 2 ° C	Pdh	10.0	kW	Tj = + 7 ° C	COPd	5.55	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 ° C	COPd	7.54	-
Tj = + 7 ° C	Pdh	6.4	kW	Tj = bivalent temperature	COPd	3.50	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	3.50	-
Tj = +12 ° C	Pdh	4.4	kW	Operation limit temperature	TOL	-30	° C
Degradation co-efficient (**)	Cdh	0.97	-	Heating water operating limit temperature	WTOL	60	° C
Tj = bivalent temperature	Pdh	10.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	10.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	° C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	° C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	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}	/ 58	dBA			
Annual energy consumption	Q _{HE}	2233	kWh			

For heat pump combination heater:

Declared load profile	XL		Water heating energy efficiency	η_{wh}	155	%
Daily electricity consumption	Q _{elec}	5.600	kWh			
Annual electricity consumption	AEC	0	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.