



ENERG
енергия · ενεργεια

Y IJA
IE IA



Indoor unit E*ST20D-****D
Outdoor unit PUD-SWM100YAA(-BS)



A++



A+



41 dB

59 dB



- 10 kW
- 10 kW
- 10 kW

2019

811/2013

BH79V003H10



English	Deutsch	Français	Italiano	Espanol
Nederlands	Svenska	Polski	Português	Ελληνικά
suomi	Čeština	Български	PolSKI	Ελληνικά
Outdoor unit	Außengerät	unit extérieure	unità esterna	unidad exterior
1 built-in unit	Übersetzeneinheit	Unité externe	unità esterne	Εξωτερική μονάδα
Ulkokotkko	Yhteyksi/ Jedinčka	Выходное тѣло	jednostka zewnętrzna	-
Indoor unit	Innengerät	unité intérieure	unità interna	unidad interior
2 built-in unit	Innenbaueinheit	Innenbaueinheit	unità interiore	Εσωτερική μονάδα
Sisäyksyksityösovellus	Medienpräparat	Вътрешно тѣло	jednostka wewnętrzna	-
3 Medium-temperature application	Mitteltemperaturanwendung	Application à moyenne température	la aplicación a media temperatura	la aplicación de media temperatura
4 Kestämälämpötilan sovellus	mitteltemperaturbereich	middle temperaturebereich	a aplicação a media temperatura	η εφαρμογή σε μέτρια θερμοκρασία
5 Low-temperature application	Niedertemperaturanwendung	среднотемпературного применения	za stosowania w umiarkowanych temperaturach	la aplicación de baja temperatura
6 Lagetemperatuur-bereik	lagertemperaturbereich	la temperatura de basse température	aplicação a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
7 maatalajärjestelmän sovellus	inZoovertroft applicatie	низкотемпературны применения	a aplicação a baixa temperatura	-
8 Seasonal space heating energy efficiency class	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	la classe de efficienza energética stagionale del riscaldamento d'ambiente	la classe de eficiencia energética estacional de calefacción
9 de seizsozvedonten energieficiëntieklassa voor ruimteverwarming	seizsozvedontede energieficiëntieklassa vrd ruimteverwarming	Klassen für Aspektingraden ved uopvarming	A classe de eficiência energética do aquecimento ambiente sazonal	η τάξη ενεργειακής απόδοσης, της εποχικής θέρμανσης χώρου
10 Indoor heating energy efficiency class	Indoor heating energy efficiency class	la classe d'efficacité énergétique intérieure, pour le chauffage des locaux	Klassa sezsonov velykumotsi energoosuzheniia organizovaniia pomieszczeniia	la classe de eficiencia energética del edificio (en condiciones climáticas medias)
11 de energieficiëntie van de dalruimteverwarming voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)	de energieficiëntie van de dalruimteverwarming voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)	la classe de efficacité énergétique, pour le chauffage de l'eau	la classe de eficiência energética del riscaldamento dell'acqua	la classe de eficiencia energética del edificio (en condiciones climáticas medias)
12 de energieficiëntie van de dalruimteverwarming voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)	de energieficiëntie van de dalruimteverwarming voor ruimteverwarming (onder gemiddelde klimaatomstandigheden)	Klassen for Aspektingrad ved uopvarming	Klassa efektywności energetycznej podgrzewania wody	la potencia calorífica nominal(en condiciones climáticas medias)
13 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	la puissance thermique nominale dans les conditions climatiques moyennes	A potencia calorífica nominal(en condiciones climáticas medias)	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
14 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
15 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
16 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
17 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
18 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
19 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
20 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
21 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
22 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
23 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)
24 Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	Voor ruimteverwarming, het jaarlijkse energieverbruik (onder gemiddelde klimaatomstandigheden)	klassen for Aspektingrad ved uopvarming	la puissance thermique nominale dans les conditions climatiques moyennes	η ονομαστική θερμική ισχύς(στη διάρκεια του κύκλου ζωής)

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	EHST20D-****
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 shall be declared for		medium-temperature application.
Parameters shall be declared 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	130	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.9	kW	T _j = - 7 °C	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	5.7	kW	T _j = + 2 °C	COP _d	3.20	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	4.77	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	6.92	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = bivalent temperature	P _{dh}	8.9	kW	T _j = bivalent temperature	COP _d	2.00	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°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	Type of energy input	Electrical		
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}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	6040	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	148	%	
Daily electricity consumption	Q _{elec}	3.300	kW/h				
Annual electricity consumption	AEC	736	kW/h				

Contact details

MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.

(*) 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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	EHST20D-****
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 shall be declared for		low-temperature application.
Parameters shall be declared 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	177	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.9	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	5.7	kW	T _j = + 2 °C	COP _d	4.52	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	5.4	kW	T _j = + 7 °C	COP _d	5.68	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.5	kW	T _j = +12 °C	COP _d	7.76	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	8.9	kW	T _j = bivalent temperature	COP _d	3.10	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°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	Type of energy input	Electrical		
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}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	4441	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	148	%	
Daily electricity consumption	Q _{elec}	3.300	kW/h				
Annual electricity consumption	AEC	736	kW/h				

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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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	EHST20D-****
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 shall be declared for		medium-temperature application.
Parameters shall be declared 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	109	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> 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}	6.1	kW	T _j = - 7 °C	COP _d	2.47	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	3.7	kW	T _j = + 2 °C	COP _d	3.03	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	4.42	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.8	kW	T _j = bivalent temperature	COP _d	1.32	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	7.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.29	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-25	°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}	2.8	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				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	8290	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	162	%
Daily electricity consumption	Q _{elec}	3.100	kW/h				
Annual electricity consumption	AEC	675	kW/h				

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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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	EHST20D-****
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 shall be declared for		low-temperature application.
Parameters shall be declared 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	145	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> 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}	6.2	kW	T _j = - 7 °C	COP _d	3.83	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 2 °C	COP _d	3.82	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.20	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.5	kW	T _j = +12 °C	COP _d	7.38	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	8.4	kW	T _j = bivalent temperature	COP _d	2.02	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.07	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-25	°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}	2.6	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				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	6181	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	162	%	
Daily electricity consumption	Q _{elec}	3.100	kW/h				
Annual electricity consumption	AEC	675	kW/h				

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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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	EHST20D-****
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 shall be declared for		medium-temperature application.
Parameters shall be declared 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	151	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> 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}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	10.1	kW	T _j = + 2 °C	COP _d	1.93	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	6.4	kW	T _j = + 7 °C	COP _d	3.32	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.2	kW	T _j = +12 °C	COP _d	5.19	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	1.0	kW	T _j = bivalent temperature	COP _d	0.94	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°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}	13.0	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				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	3390	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	120	%	
Daily electricity consumption	Q _{elec}	4.100	kW/h				
Annual electricity consumption	AEC	900	kW/h				

Contact details

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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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	EHST20D-****
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 shall be declared for		low-temperature application.
Parameters shall be declared 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	218	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> 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}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	10	kW	T _j = + 2 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	6.4	kW	T _j = + 7 °C	COP _d	5.16	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	6.88	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	1.0	kW	T _j = bivalent temperature	COP _d	1.00	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°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}	13.0	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				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	2334	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	120	%
Daily electricity consumption	Q _{elec}	4.100	kW/h				
Annual electricity consumption	AEC	900	kW/h				

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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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	ERST20D-****
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 shall be declared for		medium-temperature application.
Parameters shall be declared 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	130	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.9	kW	T _j = - 7 °C	COP _d	2.00	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	5.7	kW	T _j = + 2 °C	COP _d	3.20	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	5.2	kW	T _j = + 7 °C	COP _d	4.77	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	3.6	kW	T _j = +12 °C	COP _d	6.92	-
Degradation co-efficient (**)	C _{dh}	0.95	-				
T _j = bivalent temperature	P _{dh}	8.9	kW	T _j = bivalent temperature	COP _d	2.00	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°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	Type of energy input	Electrical		
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}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	6040	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	148	%
Daily electricity consumption	Q _{elec}	3.300	kW/h				
Annual electricity consumption	AEC	736	kW/h				

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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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	ERST20D-****
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 shall be declared for		low-temperature application.
Parameters shall be declared 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	177	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	8.9	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	5.7	kW	T _j = + 2 °C	COP _d	4.52	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	5.4	kW	T _j = + 7 °C	COP _d	5.68	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.5	kW	T _j = +12 °C	COP _d	7.76	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	8.9	kW	T _j = bivalent temperature	COP _d	3.10	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°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	Type of energy input	Electrical		
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}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	4441	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	148	%
Daily electricity consumption	Q _{elec}	3.300	kWh				
Annual electricity consumption	AEC	736	kWh				

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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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	ERST20D-****
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 shall be declared for		medium-temperature application.
Parameters shall be declared 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	109	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> 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}	6.1	kW	T _j = - 7 °C	COP _d	2.47	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	3.7	kW	T _j = + 2 °C	COP _d	3.03	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	4.42	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.8	kW	T _j = bivalent temperature	COP _d	1.32	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	7.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.29	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-25	°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}	2.8	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				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	8290	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	162	%
Daily electricity consumption	Q _{elec}	3.100	kW/h				
Annual electricity consumption	AEC	675	kW/h				

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

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	ERST20D-****
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 shall be declared for		low-temperature application.
Parameters shall be declared 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	145	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> 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}	6.2	kW	T _j = - 7 °C	COP _d	3.83	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	3.9	kW	T _j = + 2 °C	COP _d	3.82	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.20	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.5	kW	T _j = +12 °C	COP _d	7.38	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	8.4	kW	T _j = bivalent temperature	COP _d	2.02	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	8.6	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.07	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-25	°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}	2.6	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				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	6181	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	162	%	
Daily electricity consumption	Q _{elec}	3.100	kW/h				
Annual electricity consumption	AEC	675	kW/h				

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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.

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	ERST20D-****
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 shall be declared for		medium-temperature application.
Parameters shall be declared 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	151	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> 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	10.1	kW	Tj = + 2 °C	COPd	1.93	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	6.4	kW	Tj = + 7 °C	COPd	3.32	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.2	kW	Tj = +12 °C	COPd	5.19	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = bivalent temperature	Pdh	1.0	kW	Tj = bivalent temperature	COPd	0.94	-
Tj = operation limit temperature	Pdh	6.9	kW	Tj = operation limit temperature	COPd	1.60	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°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}	13.0	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	
Sound power level, indoors/outdoors	L _{WA}	41/59	dB(A)
Annual energy consumption	Q _{HE}	3390	kWh
Rated air flow rate, outdoors		2640	m ³ /h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q _{elec}	4.100	kWh
Annual electricity consumption	AEC	900	kWh
Water heating energy efficiency	η_{wh}	120	%

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

Model(s):	Outdoor unit:	PUD-SWM100YAA
	Indoor unit:	ERST20D-****
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 shall be declared for		low-temperature application.
Parameters shall be declared 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	218	%
Declared capacity for heating for part load at indoor <input type="checkbox"/> 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}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	10	kW	T _j = + 2 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	6.4	kW	T _j = + 7 °C	COP _d	5.16	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	6.88	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	1.0	kW	T _j = bivalent temperature	COP _d	1.00	-
T _j = operation limit temperature	P _{dh}	6.9	kW	T _j = operation limit temperature	COP _d	1.60	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-25	°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}	13.0	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				Rated air flow rate, outdoors			
Capacity control	variable			-	2640	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41/59	dB(A)				
Annual energy consumption	Q _{HE}	2334	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	120	%	
Daily electricity consumption	Q _{elec}	4.100	kW/h				
Annual electricity consumption	AEC	900	kW/h				

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