

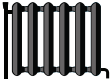


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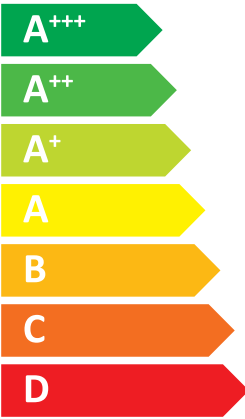


Indoor unit E*SD-****D
Outdoor unit PUD-SHWM120YAA(-BS)



55 °C

35 °C



A++

A+++

41 dB

60 dB

■ 12	■ 12
■ 12	■ 12
■ 12	■ 12
kW	kW

2019

811/2013

BH79V004H14

English	Deutsch	Français	Italiano	Espanol
Nederlands	Svenska	Polski	Português	Ελληνικά
suomi	Čeština	Български	Polski	Ελληνικά
Outdoor unit	Außengerät	Unité extérieure	Unità esterna	Unitat exterior
1 built-in unit	Übersetzeneinheit	Unités encastrées	Unitate exterieur	Εξωτερική μονάδα
Ulkokotkko	Yhtäkuulijedotus	Вытяжное устройство	jednostka zewnętrzna	μονάδα εξωτερική
Indoor unit	Innengerät	Unité intérieure	Unità interna	Unitat interior
2 built-in unit	Innenbaueinheit	Innenbaueinheit	Unitate interior	Εξωτερική μονάδα
Sisäyksyksikkö	Medien-temperaturanwendung	Вътрешно тяло	jednostka wewnętrzna	μονάδα εσωτερική
3 Medium-temperature application	mitteltemperaturanwendung	Использование в умеренной температуре	aplicação a media temperatura	la aplicación de media temperatura
3 keskilämpötilan sovellus	mitteltemperaturanwendung	среднетемпературного применения	zasosowanie w umiarkowanej temperaturze	η εφαρμογή σε μέτρια θερμοκρασία
4 Low-temperature application	Niedertemperaturanwendung	Использование в basse температуре	aplicação a baixa temperatura	la aplicación de baja temperatura
4 laagtemperatuurtoepassing	Niedertemperaturanwendung	использование в низкой температуре	aplicação a baixa temperatura	η εφαρμογή σε χαμηλή θερμοκρασία
5 de seizoensgebonden energie-efficiëntieklassen voor ruimteverwarming	de Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	la classe de efficienza energética estacional del riscaldamento d'ambiente	la clase de eficiencia energética estacional de calefacción
5 de seizoensgebonden energie-efficiëntieklassen voor ruimteverwarming	de Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux	la classe de eficiencia energética estacional del riscaldamento d'ambiente	η τάξη ενεργειακής απόδοσης, της εποχιακής θέρμανσης χώρου
6 de energie-efficiëntieklassen voor waterverwarming	die Warmwassereffizienz-Klasse für die Warmwassereffizienz	la classe d'efficacité énergétique pour le chauffage de l'eau	la classe de eficiencia energética del riscaldamento dell'acqua	la clase de eficiencia energética del calentamiento de agua
6 de energie-efficiëntieklassen voor waterverwarming	die Warmwassereffizienz-Klasse für die Warmwassereffizienz	la classe d'efficacité énergétique pour le chauffage de l'eau	la classe de eficiencia energética del riscaldamento dell'acqua	η τάξη ενεργειακής απόδοσης θέρμανσης χώρου
7 de optimale werkbelastingen onder gemiddelde klimaatomstandigheden	Die optimale Auslastung bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal en condiciones climáticas medias	la potencia calorífica nominal en condiciones climáticas medias
7 de optimale werkbelastingen onder gemiddelde klimaatomstandigheden	Die optimale Auslastung bei durchschnittlichen Klimaverhältnissen	la puissance thermique nominale dans les conditions climatiques moyennes	la potencia térmica nominal en condiciones climáticas medias	η ονομαστική θερμική ισχύς υπό μέτριας κλιματικής συνθήκης
8 voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)	Für Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche medie)	para calefacción estacional, el consumo anual de energía(en condiciones climáticas medias)
8 voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)	Für Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen	pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions climatiques moyennes)	per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche medie)	για τη θέρμανση χώρου, η ετήσια καταναλωμένη ενέργεια(υπό μέτριας κλιματικής συνθήκης)
9 voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder gemiddelde klimaatomstandigheden	Für Wassererwärmung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions climatiques moyennes)	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias)
9 voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder gemiddelde klimaatomstandigheden	Für Wassererwärmung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen	pour le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions climatiques moyennes)	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	για την θέρμανση ύδατος, η ετήσια καταναλωμένη ηλεκτρική ενέργεια(υπό μέτριας κλιματικής συνθήκης)
10 de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la efficacité énergétique saisonnière pour le chauffage des locaux(dans les conditions climatiques moyennes)	la eficiencia energética de funcionamiento en condiciones climáticas medias	η ενεργειακή απόδοση θέρμανσης χώρου(υπό μέτριας κλιματικής συνθήκης)
10 de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	la efficacité énergétique saisonnière pour le chauffage des locaux(dans les conditions climatiques moyennes)	la eficiencia energética de funcionamiento en condiciones climáticas medias	η ενεργειακή απόδοση θέρμανσης χώρου(υπό μέτριας κλιματικής συνθήκης)
11 Water heating energy efficiency under average climate conditions	die Warmwassereffizienz-Klasse für die Warmwassereffizienz	la efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques moyennes)	la eficiencia energética de funcionamiento en condiciones climáticas medias	η ενεργειακή απόδοση θέρμανσης χώρου(υπό μέτριας κλιματικής συνθήκης)
11 Water heating energy efficiency under average climate conditions	die Warmwassereffizienz-Klasse für die Warmwassereffizienz	la efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques moyennes)	la eficiencia energética de funcionamiento en condiciones climáticas medias	η ενεργειακή απόδοση θέρμανσης χώρου(υπό μέτριας κλιματικής συνθήκης)
12 het gebruiksvolume van binnen	die Wärmehinleistung bei kaltem Klimaverhältnis	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia térmica nominal, in condizioni climatiche più fredde	la potencia calorífica nominal en condiciones climáticas más frías
12 het gebruiksvolume van binnen	die Wärmehinleistung bei kaltem Klimaverhältnis	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia térmica nominal, in condiciones climatiche più fredde	la potencia calorífica nominal en condiciones climáticas más frías
13 Work only during off-peak hours	Nominalen ausgeben während der kalten Klimaperiode	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia térmica nominal, en condiciones climáticas más frías	η ονομαστική θερμική ισχύς, υπό χειρότερης κλιματικής συνθήκης
13 Work only during off-peak hours	Nominalen ausgeben während der kalten Klimaperiode	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia térmica nominal, en condiciones climáticas más frías	η ονομαστική θερμική ισχύς, υπό χειρότερης κλιματικής συνθήκης
14 de normale werkbelasting, onder koude klimaatomstandigheden	Nominalen ausgeben während der kalten Klimaperiode	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia térmica nominal, en condiciones climáticas más frías	η ονομαστική θερμική ισχύς, υπό χειρότερης κλιματικής συνθήκης
14 de normale werkbelasting, onder koude klimaatomstandigheden	Nominalen ausgeben während der kalten Klimaperiode	la puissance thermique nominale, dans les conditions climatiques plus froides	la potencia térmica nominal, en condiciones climáticas más frías	η ονομαστική θερμική ισχύς, υπό χειρότερης κλιματικής συνθήκης
15 in milieubelasting, onder warme klimaatomstandigheden	Nominalen ausgeben während der kalten Klimaperiode	la puissance thermique nominale, dans les conditions climatiques plus chaudes	la potencia térmica nominal, en condiciones climáticas más calidas	η ονομαστική θερμική ισχύς, υπό βέλτιστης κλιματικής συνθήκης
15 in milieubelasting, onder warme klimaatomstandigheden	Nominalen ausgeben während der kalten Klimaperiode	la puissance thermique nominale, dans les conditions climatiques plus chaudes	la potencia térmica nominal, en condiciones climáticas más calidas	η ονομαστική θερμική ισχύς, υπό βέλτιστης κλιματικής συνθήκης
16 voor ruimteverwarming, het jaarlijkse energieverbruik onder koude klimaatomstandigheden	Für Raumheizung, den jährlichen Energieverbrauch bei kaltem Klimaverhältnis	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più fredde	para calefacción estacional, el consumo anual de energía en condiciones climáticas más frías
16 voor ruimteverwarming, het jaarlijkse energieverbruik onder koude klimaatomstandigheden	Für Raumheizung, den jährlichen Energieverbrauch bei kaltem Klimaverhältnis	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides	per il riscaldamento d'ambiente, il consumo annuo di energia, in condiciones climatiche más frías	για θέρμανση χώρου, η ετήσια καταναλωμένη ενέργεια, υπό χειρότερης κλιματικής συνθήκης
17 voor ruimteverwarming, het jaarlijkse energieverbruik onder warme klimaatomstandigheden	Für Raumheizung, den jährlichen Energieverbrauch bei warmem Klimaverhältnis	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più calde	para calentar espacios, el consumo anual de energía en condiciones climáticas más calidas
17 voor ruimteverwarming, het jaarlijkse energieverbruik onder warme klimaatomstandigheden	Für Raumheizung, den jährlichen Energieverbrauch bei warmem Klimaverhältnis	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes	per il riscaldamento d'ambiente, il consumo annuo di energia, in condiciones climatiche más calidas	για θέρμανση χώρου, η ετήσια καταναλωμένη ηλεκτρική ενέργεια, υπό χειρότερης κλιματικής συνθήκης
18 voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koude klimaatomstandigheden	Für Wassererwärmung, den jährlichen Stromverbrauch bei kaltem Klimaverhältnis	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus froides	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde e più calde	για θέρμανση ύδατος, η ετήσια καταναλωμένη ηλεκτρική ενέργεια, υπό χειρότερης κλιματικής συνθήκης
18 voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koude klimaatomstandigheden	Für Wassererwärmung, den jährlichen Stromverbrauch bei kaltem Klimaverhältnis	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus froides	per il riscaldamento dell'acqua, il consumo annuo di energia, in condiciones climatiche más frías y más calidas	για θέρμανση ύδατος, η ετήσια καταναλωμένη ηλεκτρική ενέργεια, υπό χειρότερης κλιματικής συνθήκης
19 voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warme klimaatomstandigheden	Für Wassererwärmung, den jährlichen Stromverbrauch bei warmem Klimaverhältnis	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus chaudes	per il riscaldamento dell'acqua, il consumo annuo di energia, in condiciones climatiche más calidas	για θέρμανση ύδατος, η ετήσια καταναλωμένη ηλεκτρική ενέργεια, υπό χειρότερης κλιματικής συνθήκης
19 voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warme klimaatomstandigheden	Für Wassererwärmung, den jährlichen Stromverbrauch bei warmem Klimaverhältnis	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus chaudes	per il riscaldamento dell'acqua, il consumo annuo di energia, in condiciones climatiche más calidas	για θέρμανση ύδατος, η ετήσια καταναλωμένη ηλεκτρική ενέργεια, υπό χειρότερης κλιματικής συνθήκης
20 de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koude klimaatomstandigheden	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kaltem Klimaverhältnis	la efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides	la eficiencia energética estacional de funcionamiento en condiciones climáticas más frías	η ενεργειακή απόδοση θέρμανσης χώρου(υπό χειρότερης κλιματικής συνθήκης)
20 de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koude klimaatomstandigheden	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kaltem Klimaverhältnis	la efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides	la eficiencia energética estacional de funcionamiento en condiciones climáticas más frías	η ενεργειακή απόδοση θέρμανσης χώρου(υπό χειρότερης κλιματικής συνθήκης)
21 de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warme klimaatomstandigheden	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei warmem Klimaverhältnis	la efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes	la eficiencia energética estacional de funcionamiento en condiciones climáticas más calidas	η ενεργειακή απόδοση θέρμανσης χώρου(υπό βέλτιστης κλιματικής συνθήκης)
21 de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warme klimaatomstandigheden	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei warmem Klimaverhältnis	la efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes	la eficiencia energética estacional de funcionamiento en condiciones climáticas más calidas	η ενεργειακή απόδοση θέρμανσης χώρου(υπό βέλτιστης κλιματικής συνθήκης)
22 de energie-efficiëntie voor waterverwarming onder koude klimaatomstandigheden	die Warmwassereffizienz-Klasse für die Warmwassereffizienz	la efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	la eficiencia energética de funcionamiento en condiciones climáticas más frías	η ενεργειακή απόδοση θέρμανσης ύδατος(υπό χειρότερης κλιματικής συνθήκης)
22 de energie-efficiëntie voor waterverwarming onder koude klimaatomstandigheden	die Warmwassereffizienz-Klasse für die Warmwassereffizienz	la efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides	la eficiencia energética de funcionamiento en condiciones climáticas más frías	η ενεργειακή απόδοση θέρμανσης ύδατος(υπό χειρότερης κλιματικής συνθήκης)
23 de energie-efficiëntie voor waterverwarming onder warme klimaatomstandigheden	die Warmwassereffizienz-Klasse für die Warmwassereffizienz	la efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	la eficiencia energética de funcionamiento en condiciones climáticas más calidas	η ενεργειακή απόδοση θέρμανσης ύδατος(υπό βέλτιστης κλιματικής συνθήκης)
23 de energie-efficiëntie voor waterverwarming onder warme klimaatomstandigheden	die Warmwassereffizienz-Klasse für die Warmwassereffizienz	la efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes	la eficiencia energética de funcionamiento en condiciones climáticas más calidas	η ενεργειακή απόδοση θέρμανσης ύδατος(υπό βέλτιστης κλιματικής συνθήκης)
24 Standard room level L _{WA, outdoor}	der Schalleistungspegel L _{WA, im Freien}	le niveau de puissance acoustique L _{WA, à l'extérieur}	el nivel de potencia sonora L _{WA, al exterior}	el nivel de potencia acústica L _{WA, en exteriores}
24 Standard room level L _{WA, outdoor}	der Schalleistungspegel L _{WA, im Freien}	le niveau de puissance acoustique L _{WA, à l'extérieur}	el nivel de potencia sonora L _{WA, al exterior}	η στάθμη ήχου L _{WA, εξωτερικού χώρου}
äänitehdoava L _{WA, ulkona}	hädellä äänitehdoava ulkona L _{WA, ve ulkona}	надлежа акустическо ниво L _{WA, на открито}	podleći akustički nivo L _{WA, na zvanjčuz}	-

Model(s):	Outdoor unit:	PUD-SHWM120YAA
	Indoor unit:	EHSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	134	%
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}	10.6	kW	T _j = - 7 °C	COP _d	2.14	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	3.25	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	5.3	kW	T _j = + 7 °C	COP _d	4.82	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.3	kW	T _j = +12 °C	COP _d	6.94	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	12.0	kW	T _j = bivalent temperature	COP _d	1.87	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
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}	-10	°C	Operation limit temperature	TOL	-28	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	7068	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	EHSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	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}	10.6	kW	T _j = - 7 °C	COP _d	2.85	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	4.51	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	5.89	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	8.00	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	12.0	kW	T _j = bivalent temperature	COP _d	2.77	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
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}	-10	°C	Operation limit temperature	TOL	-28	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	5354	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	EHSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	114	%
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}	7.3	kW	T _j = - 7 °C	COP _d	2.56	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	4.4	kW	T _j = + 2 °C	COP _d	3.19	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	4.58	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
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}	10.1	kW	T _j = bivalent temperature	COP _d	1.52	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.52	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-28	°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}	2.4	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	9563	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	EHSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	148	%
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}	7.3	kW	T _j = - 7 °C	COP _d	3.67	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 2 °C	COP _d	4.02	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.34	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	5.5	kW	T _j = +12 °C	COP _d	7.43	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	10.1	kW	T _j = bivalent temperature	COP _d	2.10	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.15	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-28	°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}	2.4	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	7333	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	EHSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	158	%
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}	12	kW	T _j = + 2 °C	COP _d	2.03	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	7.7	kW	T _j = + 7 °C	COP _d	3.35	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = +12 °C	P _{dh}	5.2	kW	T _j = +12 °C	COP _d	5.59	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	1.0	kW	T _j = bivalent temperature	COP _d	0.96	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
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	-28	°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}	6.0	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	3901	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-			η_{wh}	-	%	
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	EHSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	229	%
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	12	kW	Tj = + 2 °C	COPd	3.30	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = + 7 °C	Pdh	7.7	kW	Tj = + 7 °C	COPd	5.17	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = +12 °C	Pdh	4.4	kW	Tj = +12 °C	COPd	7.46	-
Degradation co-efficient (**)	Cdh	0.96	-				
Tj = bivalent temperature	Pdh	1.0	kW	Tj = bivalent temperature	COPd	1.00	-
Tj = operation limit temperature	Pdh	9.2	kW	Tj = operation limit temperature	COPd	1.56	-
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	-28	°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}	6.0	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	2688	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	ERSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	134	%
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}	10.6	kW	T _j = - 7 °C	COP _d	2.14	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	3.25	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	5.3	kW	T _j = + 7 °C	COP _d	4.82	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.3	kW	T _j = +12 °C	COP _d	6.94	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	12.0	kW	T _j = bivalent temperature	COP _d	1.87	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
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}	-10	°C	Operation limit temperature	TOL	-28	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	Type of energy input	Electrical		
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors	-	2640	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	7068	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	-	%
Declared load profile	-						
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	ERSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	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}	10.6	kW	T _j = - 7 °C	COP _d	2.85	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6.5	kW	T _j = + 2 °C	COP _d	4.51	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	5.89	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	8.00	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	12.0	kW	T _j = bivalent temperature	COP _d	2.77	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
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}	-10	°C	Operation limit temperature	TOL	-28	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.022	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.022	kW				
Standby mode	P _{SB}	0.022	kW	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	5354	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	ERSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	114	%
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}	7.3	kW	T _j = - 7 °C	COP _d	2.56	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	4.4	kW	T _j = + 2 °C	COP _d	3.19	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.8	kW	T _j = + 7 °C	COP _d	4.58	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
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}	10.1	kW	T _j = bivalent temperature	COP _d	1.52	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	1.52	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-28	°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}	2.4	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	-	2640	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	9563	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	-	%
Declared load profile	-						
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	ERSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	148	%
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}	7.3	kW	T _j = - 7 °C	COP _d	3.67	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	4.5	kW	T _j = + 2 °C	COP _d	4.02	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 7 °C	P _{dh}	3.9	kW	T _j = + 7 °C	COP _d	5.34	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	5.5	kW	T _j = +12 °C	COP _d	7.43	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	10.1	kW	T _j = bivalent temperature	COP _d	2.10	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	10.2	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	2.15	-
Bivalent temperature	T _{biv}	-16	°C	Operation limit temperature	TOL	-28	°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}	2.4	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	7333	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kW/h				
Annual electricity consumption	AEC	-	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-SHWM120YAA
	Indoor unit:	ERSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	158	%
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}	12	kW	T _j = + 2 °C	COP _d	2.03	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	7.7	kW	T _j = + 7 °C	COP _d	3.35	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = +12 °C	P _{dh}	5.2	kW	T _j = +12 °C	COP _d	5.59	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = bivalent temperature	P _{dh}	1.0	kW	T _j = bivalent temperature	COP _d	0.96	-
T _j = operation limit temperature	P _{dh}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
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	-28	°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}	6.0	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}	41/60	dB(A)
Annual energy consumption	Q _{HE}	3901	kWh
Rated air flow rate, outdoors		2640	m ³ /h

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

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

Model(s):	Outdoor unit:	PUD-SHWM120YAA
	Indoor unit:	ERSD-****
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters 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	12.0	kW	Seasonal space heating energy efficiency	η_s	229	%
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}	12	kW	T _j = + 2 °C	COP _d	3.30	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	7.7	kW	T _j = + 7 °C	COP _d	5.17	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	4.4	kW	T _j = +12 °C	COP _d	7.46	-
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}	9.2	kW	T _j = operation limit temperature	COP _d	1.56	-
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	-28	°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}	6.0	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}	41/60	dB(A)				
Annual energy consumption	Q _{HE}	2688	kWh				

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

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