



# ENERG

енергия · ενεργεια



Indoor unit  
Outdoor unit

E\*SC-\*\*D  
PUHZ-SHW140YHA(-BS)



55 °C

35 °C



**A++**

**A++**



**40** dB



**70** dB

■ 16  
■ **16**  
■ 14  
kW

■ 17  
■ **17**  
■ 16  
kW



2019

811/2013

BH79V004H28

## Mitsubishi Electric ErP Directive Related Product Information: erp.mitsubishielectric.eu/erp

		For medium-temperature application												For low-temperature application																																																		
1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																					
Outdoor unit	Indoor unit	Medium-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level $L_{w, in, in, in}$	Work only during off-peak hours	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level $L_{w, out, out, out}$	Low-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level $L_{w, in, in, in}$	Work only during off-peak hours	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level $L_{w, out, out, out}$	Low-temperature application	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions	For space heating, annual energy consumption under average climate conditions	For water heating, annual energy consumption under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level $L_{w, in, in, in}$	Work only during off-peak hours	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual energy consumption under warmer climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level $L_{w, out, out, out}$															
PUHZ-SW50VKA(-BS)	EHST20C-C2	✓	A++	A+	4.3	2669	740	128	146	40	-	4.0	4.3	3614	1378	878	643	103	161	122	168	63	✓	A++	A+	4.5	2138	740	167	146	40	-	4.2	4.5	2709	1095	878	643	141	207	122	168	63	✓	A++	A+	4.5	2138	740	167	146	40	-	4.2	4.5	2709	1095	878	643	141	207	122	168	63
		✓	A++	A	4.3	2669	1112	125	98	40	-	4.0	4.3	3614	1378	1373	1034	101	157	80	105	63	✓	A++	A	4.5	2138	1112	163	98	40	-	4.2	4.5	2709	1095	1373	1034	141	207	80	105	63	✓	A++	A	4.5	2138	1112	163	98	40	-	4.2	4.5	2709	1095	1373	1034	141	207	80	105	63
		✓	A++	A	4.3	2669	1112	128	98	40	-	4.0	4.3	3614	1378	1373	1034	103	161	80	105	63	✓	A++	A	4.5	2138	1112	167	98	40	-	4.2	4.5	2709	1095	1373	1034	145	214	80	105	63	✓	A++	A	4.5	2138	1112	167	98	40	-	4.2	4.5	2709	1095	1373	1034	145	214	80	105	63
		✓	A++	-	4.3	2669	-	125	-	40	-	4.0	4.3	3614	1378	-	-	101	157	-	-	63	✓	A++	-	4.5	2138	-	163	-	40	-	4.2	4.5	2709	1095	-	-	141	207	-	-	63	✓	A++	-	4.5	2138	-	163	-	40	-	4.2	4.5	2709	1095	-	-	141	207	-	-	63
		✓	A++	-	4.3	2669	-	128	-	40	-	4.0	4.3	3614	1378	-	-	103	161	-	-	63	✓	A++	-	4.5	2138	-	167	-	40	-	4.2	4.5	2709	1095	-	-	145	214	-	-	63	✓	A++	-	4.5	2138	-	167	-	40	-	4.2	4.5	2709	1095	-	-	145	214	-	-	63
PUHZ-SW75VHA(-BS)	EHST20C-C2	✓	A++	A	7.1	4403	1050	127	103	40	-	6.3	7.1	5967	2389	1360	1055	100	153	80	112	68	✓	A++	A	7.2	3449	1050	165	103	40	-	6.4	7.2	4379	1596	1360	1055	139	231	80	112	68	✓	A++	A	7.2	3449	1050	165	103	40	-	6.4	7.2	4379	1596	1360	1055	141	236	80	112	68
		✓	A++	A	7.1	4403	1050	129	103	40	-	6.3	7.1	5967	2389	1360	1055	101	155	80	112	68	✓	A++	A	7.2	3449	1050	167	103	40	-	6.4	7.2	4379	1596	1360	1055	141	236	80	112	68	✓	A++	A	7.2	3449	1050	167	103	40	-	6.4	7.2	4379	1596	1360	1055	141	236	80	112	68
		✓	A++	-	7.1	4403	-	127	-	40	-	6.3	7.1	5967	2389	-	-	100	153	-	-	68	✓	A++	-	7.2	3449	-	165	-	40	-	6.4	7.2	4379	1596	-	-	139	231	-	-	68	✓	A++	-	7.2	3449	-	165	-	40	-	6.4	7.2	4379	1596	-	-	139	231	-	-	68
		✓	A++	-	7.1	4403	-	129	-	40	-	6.3	7.1	5967	2389	-	-	101	155	-	-	68	✓	A++	-	7.2	3449	-	167	-	40	-	6.4	7.2	4379	1596	-	-	141	236	-	-	68	✓	A++	-	7.2	3449	-	167	-	40	-	6.4	7.2	4379	1596	-	-	141	236	-	-	68
		✓	A++	A+	7.1	4403	766	127	141	40	-	6.3	7.1	6048	2409	880	643	99	153	122	168	68	✓	A++	A+	7.2	3475	766	164	141	40	-	6.4	7.2	4463	1616	880	643	137	231	122	168	68	✓	A++	A+	7.2	3475	766	164	141	40	-	6.4	7.2	4463	1616	880	643	141	236	122	168	68
PUHZ-SW100VHA(-BS)	EHST20C-C2	✓	A++	A+	7.1	4403	766	129	141	40	-	6.3	7.1	6048	2409	880	643	101	155	122	168	68	✓	A++	A+	7.2	3475	766	167	141	40	-	6.4	7.2	4463	1616	880	643	141	236	122	168	68	✓	A++	A+	7.2	3475	766	167	141	40	-	6.4	7.2	4463	1616	880	643	141	236	122	168	68
		✓	A++	A	7.1	4403	1086	127	100	40	-	6.3	7.1	6048	2409	1377	1005	99	153	80	110	68	✓	A++	A	7.2	3475	1086	164	100	40	-	6.4	7.2	4463	1616	1377	1005	137	231	80	110	68	✓	A++	A	7.2	3475	1086	164	100	40	-	6.4	7.2	4463	1616	1377	1005	141	236	80	110	68
		✓	A++	A	7.1	4403	1086	129	100	40	-	6.3	7.1	6048	2409	1377	1005	101	155	80	110	68	✓	A++	A	7.2	3475	1086	167	100	40	-	6.4	7.2	4463	1616	1377	1005	141	236	80	110	68	✓	A++	A	7.2	3475	1086	167	100	40	-	6.4	7.2	4463	1616	1377	1005	141	236	80	110	68
		✓	A++	-	7.1	4403	-	127	-	40	-	6.3	7.1	6048	2409	-	-	99	153	-	-	68	✓	A++	-	7.2	3475	-	164	-	40	-	6.4	7.2	4463	1616	-	-	137	231	-	-	68	✓	A++	-	7.2	3475	-	164	-	40	-	6.4	7.2	4463	1616	-	-	137	231	-	-	68
		✓	A++	-	7.1	4403	-	129	-	40	-	6.3	7.1	6048	2409	-	-	101	155	-	-	68	✓	A++	-	7.2	3475	-	167	-	40	-	6.4	7.2	4463	1616	-	-	141	236	-	-	68	✓	A++	-	7.2	3475	-	167	-	40	-	6.4	7.2	4463	1616	-	-	141	236	-	-	68
PUHZ-SW100VHA(-BS)	EHST20C-C2	✓	A++	A	10.0	6331	1044	125	103	40	-	6.9	10.0	6129	3454	1330	973	106	149	82	113	70	✓	A++	A	10.4	5027	1044	164	103	40	-	7.2	10.4	4851	2502	1330	973	140	214	82	113	70	✓	A++	A	10.4	5027	1044	166	103	40	-	7.2	10.4	4851	2502	1330	973	143	219	82	113	70
		✓	A++	A	10.0	6331	1044	127	103	40	-	6.9	10.0	6129	3454	1330	973	107	152	82	113	70	✓	A++	A	10.4	5027	1044	166	103	40	-	7.2	10.4	4851	2502	1330	973	143	219	82	113	70	✓	A++	A	10.4	5027	1044	166	103	40	-	7.2	10.4	4851	2502	1330	973	143	219	82	113	70
		✓	A++	-	10.0	6331	-	125	-	40	-	6.9	10.0	6129	3454	-	-	106	149	-	-	70	✓	A++	-	10.4	5027	-	164	-	40	-	7.2	10.4	4851	2502	-	-	140	214	-	-	70	✓	A++	-	10.4	5027	-	164	-	40	-	7.2	10.4	4851	2502	-	-	140	214	-	-	70
		✓	A++	-	10.0	6331	-	127	-	40	-	6.9	10.0	6129	3454	-	-	107	152	-	-	70	✓	A++	-	10.4	5027	-	166	-	40	-	7.2	10.4	4851	2502	-	-	143	219	-	-	70	✓	A++	-	10.4	5027	-	166	-	40	-	7.2	10.4	4851	2502	-	-	143	219	-	-	70
		✓	A++	A	10.0	6288	1044	125	103	40	-	6.9	10.0	6095	3425	1330	973	107	152	82	113	70	✓	A++	A	10.4	4993	1044	166	103	40	-	7.2	10.4	4805	2477	1330	973	140	214	82	113	70	✓	A++	A	10.4	4993	1044	166	103	40	-	7.2	10.4	4805	2477	1330	973	140	214	82	113	70
PUHZ-SW100VHA(-BS)	EHST20C-C2	✓	A++	A	10.0	6288	1044	127	103	40	-	6.9	10.0	6095	3425	1330	973	107	152	82	113	70	✓	A++	A	10.4	4993	1044	166	103	40	-	7.2	10.4	4805	2477																												

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	Utløst enhed	Utløst enhed	unità esteriore	Εξωτερική μονάδα
Ulkokotkko	Vätkovri/ Jedinčka	Вытяжное устройство	jednostka zewnętrzna	μονάδα εξωτερική
Indoor unit	Innengerät	unit intérieure	unità interna	unidad interior
2 binnenunit	Innenhauben	Innenhauben	unità interna	Εσωτερική μονάδα
Sisäyksyksikö	Vahvitys	Вътрешно тяло	jednostka wewnętrzna	-
Mediintemperatuurtoepassing	Middeltemperatuurtoepassing	Использование в умеренной температуре	la aplicación a media temperatura	la aplicación de media temperatura
3 keskilämpötilan sovellus	Middeltemperatuurtoepassing	Использование в умеренной температуре	la aplicación a media temperatura	η εφαρμογή σε μέτρια θερμοκρασία
Low-temperature application	Middeltemperatuurtoepassing	Использование в умеренной температуре	la aplicación a media temperatura	-
4 laagtemperatuurtoepassing	Middeltemperatuurtoepassing	Использование в умеренной температуре	la aplicación a media temperatura	-
5 de seizoensgebonden energie-efficiëntieklassen voor ruimteverwarming	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 clase de eficiencia energética estacional de calefacción
6 de energie-efficiëntieklassen voor waterverwarming	die Klasse für die Warmwasserbereitungs-Energieeffizienz	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
7 de energie-efficiëntieklassen voor waterverwarming	die Klasse für die Warmwasserbereitungs-Energieeffizienz	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
8 voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)	For space heating, annual energy consumption under average climate conditions	for l'imprégnation, le bilan énergétique(under gemiddelijke klimaatomstandigheden)	Para o aquecimento ambiente, o consumo anual de energia(em condições climáticas médias)	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas medias)
9 voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden)	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)	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas medias)
10 de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	за подогревание на вода, годишното потребление електроенергия при средни климатични условия	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas medias)
11 de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden)	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	за подогревание на вода, годишното потребление електроенергия при средни климатични условия	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas medias)
12 het gebruiksvormingsniveau van binnen	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen	за подогревание на вода, годишното потребление електроенергия при средни климатични условия	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie)	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas medias)
13 de normale vaatwasmachine, onder koudeere klimaatomstandigheden	Normaal vullende vaatwasmachine, onder koudeere klimaatomstandigheden	за нормално потребление електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
14 de normale vaatwasmachine, onder koudeere klimaatomstandigheden	Normaal vullende vaatwasmachine, onder koudeere klimaatomstandigheden	за нормално потребление електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
15 inmilieuafdeling, inpraktische toestand	inmilieuafdeling, inpraktische toestand	за нормално потребление електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
16 voor ruimteverwarming, het jaarlijkse energieverbruik(onder koudeere klimaatomstandigheden)	For space heating, annual energy consumption under cold climate conditions	pour le chauffage de l'eau, 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 ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
17 voor ruimteverwarming, het jaarlijkse energieverbruik(onder koudeere klimaatomstandigheden)	For space heating, annual energy consumption under cold climate conditions	pour le chauffage de l'eau, 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 ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
18 voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder koudeere klimaatomstandigheden)	For water heating, annual electricity consumption under cold climate conditions	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	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías y más calidas)
19 voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder koudeere klimaatomstandigheden)	For water heating, annual electricity consumption under cold climate conditions	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	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías y más calidas)
20 de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder koudeere klimaatomstandigheden)	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kaltem Klimaverhältnissen	за нормално потребление електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
21 de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder koudeere klimaatomstandigheden)	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kaltem Klimaverhältnissen	за нормално потребление електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
22 de energie-efficiëntie voor waterverwarming(onder koudeere klimaatomstandigheden)	die Warmwasserbereitungs-Energieeffizienz bei kaltem Klimaverhältnissen	за нормално потребление електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
23 de energie-efficiëntie voor waterverwarming(onder koudeere klimaatomstandigheden)	die Warmwasserbereitungs-Energieeffizienz bei kaltem Klimaverhältnissen	за нормално потребление електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)
24 de energie-efficiëntie voor waterverwarming(onder koudeere klimaatomstandigheden)	die Warmwasserbereitungs-Energieeffizienz bei kaltem Klimaverhältnissen	за нормално потребление електроенергия при по-студени климатични условия	para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	para calefacción ambiental, el consumo anual de electricidad(en condiciones climáticas más frías)

Model(s):	Outdoor unit:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.8	kW	Seasonal space heating energy efficiency	$\eta_s$	127	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.84	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	8.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.13	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.5	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.67	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.0	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.62	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.84	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.50	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	2.5	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	9869	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/h				

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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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	$\eta_s$	163	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	9.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.04	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.71	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.59	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	2.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	8222	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.8	kW	Seasonal space heating energy efficiency	$\eta_s$	121	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	9.6	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.86	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.66	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	13.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	4.7	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	12246	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	$\eta_s$	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	10.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	6.01	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.00	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	5.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	10684	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	153	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	14	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.92	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	6.8	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.60	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.75	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	4721	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.5	kW	Seasonal space heating energy efficiency	$\eta_s$	209	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	15.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.74	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	10.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.56	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.59	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	4721	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.8	kW	Seasonal space heating energy efficiency	$\eta_s$	127	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.84	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	8.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.13	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.5	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.67	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.0	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.62	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.84	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.50	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	2.5	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	9869	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	$\eta_s$	163	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	9.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.04	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.71	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.59	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	2.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	8222	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.8	kW	Seasonal space heating energy efficiency	$\eta_s$	121	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	9.6	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.86	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.66	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	13.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	4.7	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	12246	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	$\eta_s$	149	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	10.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	6.01	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.00	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	5.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	10684	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	153	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	14	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.92	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	6.8	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.60	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.75	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	4721	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	EHSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.5	kW	Seasonal space heating energy efficiency	$\eta_s$	209	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	15.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.74	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	10.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.56	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.59	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	4721	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.8	kW	Seasonal space heating energy efficiency	$\eta_s$	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.84	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	8.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.13	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.5	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.67	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.0	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.62	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.84	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.50	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	2.5	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	9869	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-			$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	$\eta_s$	165	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	9.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.04	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.71	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.59	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	2.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	8222	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.8	kW	Seasonal space heating energy efficiency	$\eta_s$	122	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	9.6	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.86	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.66	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	13.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	4.7	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	12246	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	$\eta_s$	150	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	10.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	6.01	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.00	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	5.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	10684	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	14	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.92	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	6.8	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.60	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.75	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	4721	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.5	kW	Seasonal space heating energy efficiency	$\eta_s$	211	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	15.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.74	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	10.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.56	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.59	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	4721	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-			$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.8	kW	Seasonal space heating energy efficiency	$\eta_s$	128	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.84	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	8.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.13	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.5	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.67	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.0	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.62	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.84	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.50	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	2.5	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	9869	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	$\eta_s$	165	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	9.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.04	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	5.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.71	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.59	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	2.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	8222	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh				
Annual electricity consumption	AEC	-	kWh				

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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.8	kW	Seasonal space heating energy efficiency	$\eta_s$	122	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	9.6	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	5.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.86	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.66	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	13.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	4.7	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	12246	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-			$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	17.0	kW	Seasonal space heating energy efficiency	$\eta_s$	150	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	10.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	6.01	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.47	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.00	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	5.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	10684	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$		-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14.0	kW	Seasonal space heating energy efficiency	$\eta_s$	154	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	14	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.92	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.12	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	6.8	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.60	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	14.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.75	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	4721	kWh				

For heat pump combination heater:

Declared load profile		-		Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SHW140YHA(-BS)
	Indoor unit:	ERSC-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15.5	kW	Seasonal space heating energy efficiency	$\eta_s$	211	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	15.5	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.74	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	10.0	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.56	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	7.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	15.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.59	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	9.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.43	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-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 <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	6000	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 70	dBA				
Annual energy consumption	Q <sub>HE</sub>	4721	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	$\eta_{wh}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh/h				
Annual electricity consumption	AEC	-	kWh/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:	PUHZ-SW75YAA-SC
	Indoor unit:	ERST20D-***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	7.1	kW	Seasonal space heating energy efficiency	$\eta_s$	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.04	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.23	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.59	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	2.8	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.10	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.95	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.04	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	5.6	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.37	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	1.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	4329	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	145	%
Daily electricity consumption	Q <sub>elec</sub>	3.420	kWh/h				
Annual electricity consumption	AEC	752	kWh/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:	PUHZ-SW75YAA-SC
	Indoor unit:	ERST20D-***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	7.2	kW	Seasonal space heating energy efficiency	$\eta_s$	165	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.54	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.16	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.6	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.62	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.95	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	3.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.00	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.94	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.43	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	5.6	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.30	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	1.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	3507	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	145	%
Daily electricity consumption	Q <sub>elec</sub>	3.420	kWh/h				
Annual electricity consumption	AEC	752	kWh/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:	PUHZ-SW75YAA-SC
	Indoor unit:	ERST20D-***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	6.0	kW	Seasonal space heating energy efficiency	$\eta_s$	109	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3.6	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.37	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.2	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.24	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.97	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.5	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.70	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	3.0	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.74	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.95	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	5.7	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.30	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	5.6	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.30	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	6.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				2660	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	5169	kWh				

For heat pump combination heater:

Declared load profile		L		Water heating energy efficiency	$\eta_{wh}$	123	%
Daily electricity consumption	Q <sub>elec</sub>	3.990	kW/h				
Annual electricity consumption	AEC	877	kW/h				

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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:	PUHZ-SW75YAA-SC
	Indoor unit:	ERST20D-***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	6.0	kW	Seasonal space heating energy efficiency	$\eta_s$	132	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3.6	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.85	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.4	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.14	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.96	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	2.6	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.82	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.95	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	3.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.81	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.94	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	5.7	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.56	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	5.6	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.30	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	6.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				2660	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	4265	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		L		$\eta_{wh}$		123	%
Daily electricity consumption	Q <sub>elec</sub>	3.990	kWh/h				
Annual electricity consumption	AEC	877	kWh/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:	PUHZ-SW75YAA-SC
	Indoor unit:	ERST20D-***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	7.1	kW	Seasonal space heating energy efficiency	$\eta_s$	158	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	7.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.98	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.19	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	2.9	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.70	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.95	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.94	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	5.6	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.30	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW				
Standby mode	P <sub>SB</sub>	0.022	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				
Other items				Rated air flow rate, outdoors			
Capacity control		variable				2660	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	2358	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		L		$\eta_{wh}$		161	%
Daily electricity consumption	Q <sub>elec</sub>	3.080	kWh/h				
Annual electricity consumption	AEC	678	kWh/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:	PUHZ-SW75YAA-SC
	Indoor unit:	ERST20D-***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	7.2	kW	Seasonal space heating energy efficiency	$\eta_s$	225	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	7.2	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.13	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.79	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	3.1	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.57	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.94	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.43	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	5.6	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.30	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.022	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0.022	kW				
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items							
Capacity control	variable			Rated air flow rate, outdoors	-	2660	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dBA				
Annual energy consumption	Q <sub>HE</sub>	2358	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	$\eta_{wh}$	161	%
Daily electricity consumption	Q <sub>elec</sub>	3.080	kWh/h				
Annual electricity consumption	AEC	678	kWh/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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.1	kW	Seasonal space heating energy efficiency	$\eta_s$	129	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.95	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.24	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.46	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.89	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.95	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.35	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	4403	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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 P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.2	kW	Seasonal space heating energy efficiency	$\eta_s$	167	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.98	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.04	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.98	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	3449	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.3	kW	Seasonal space heating energy efficiency	$\eta_s$	101	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3.8	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.22	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.3	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.93	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.32	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.23	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	6.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	5967	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.4	kW	Seasonal space heating energy efficiency	$\eta_s$	141	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.4	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.91	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.54	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.1	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.1	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	6.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)
Annual energy consumption	Q <sub>HE</sub>	4379	kWh
Rated air flow rate, outdoors		3300	m <sup>3</sup> /h

For heat pump combination heater:			
Declared load profile		-	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	$\eta_{wh}$	-	%

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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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.1	kW	Seasonal space heating energy efficiency	$\eta_s$	155	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	7.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.99	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.20	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.85	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control		variable		-	3300	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	2389	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.2	kW	Seasonal space heating energy efficiency	$\eta_s$	236	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	7.2	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.87	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.83	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.5	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.98	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	2389	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-MEC
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.1	kW	Seasonal space heating energy efficiency	$\eta_s$	129	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.95	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.24	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.46	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.89	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.95	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.35	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control		variable		-	3300	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	4403	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-MEC
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.2	kW	Seasonal space heating energy efficiency	$\eta_s$	167	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.98	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.04	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.98	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	3449	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-MEC
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.3	kW	Seasonal space heating energy efficiency	$\eta_s$	101	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3.8	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.22	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.3	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.93	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.32	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.23	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	6.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	5967	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-MEC
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.4	kW	Seasonal space heating energy efficiency	$\eta_s$	141	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.4	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.91	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.54	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.1	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.1	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	6.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)
Annual energy consumption	Q <sub>HE</sub>	4379	kWh
Rated air flow rate, outdoors		3300	m <sup>3</sup> /h

For heat pump combination heater:			
Declared load profile		-	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	$\eta_{wh}$	-	%

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

Model(s):	Outdoor unit:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-MEC
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.1	kW	Seasonal space heating energy efficiency	$\eta_s$	155	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	7.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.99	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.20	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.85	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	2389	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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 P<sub>designh</sub>, and the rated heat output of a supplementary heater P<sub>sup</sub> is equal to the supplementary capacity for heating sup(T<sub>j</sub>).

(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.

Model(s):	Outdoor unit:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSC-MEC
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.2	kW	Seasonal space heating energy efficiency	$\eta_s$	236	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	7.2	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.87	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.83	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.5	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.98	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	2389	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSD-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.1	kW	Seasonal space heating energy efficiency	$\eta_s$	129	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	1.95	-
Degradation co-efficient (**)	C <sub>dh</sub>	1.00	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3.8	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.24	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.46	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.3	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.89	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.98	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.95	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.35	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	4403	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSD-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.2	kW	Seasonal space heating energy efficiency	$\eta_s$	167	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.98	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	4.04	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.98	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.9	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	3449	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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.

Model(s):	Outdoor unit:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSD-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.3	kW	Seasonal space heating energy efficiency	$\eta_s$	101	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3.8	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	2.22	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.3	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.93	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	4.32	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.4	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	6.23	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	6.3	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control		variable		-	3300	m <sup>3</sup> /h	
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	5967	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile		-		$\eta_{wh}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSD-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.4	kW	Seasonal space heating energy efficiency	$\eta_s$	141	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	3.55	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	2.4	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	3.91	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	3.9	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.54	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.1	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.1	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	6.4	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	4379	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSD-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.1	kW	Seasonal space heating energy efficiency	$\eta_s$	155	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	7.1	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	1.99	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.6	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	3.20	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.2	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	5.50	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.3	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.85	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	2389	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	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.

Model(s):	Outdoor unit:	PUHZ-SW75VHA(-BS)
	Indoor unit:	ERSD-***C
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		no
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.2	kW	Seasonal space heating energy efficiency	$\eta_s$	236	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7 °C	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 7 °C	COP <sub>d</sub>	-	-
Degradation co-efficient (**)	C <sub>dh</sub>	-	-				
T <sub>j</sub> = + 2 °C	P <sub>dh</sub>	7.2	kW	T <sub>j</sub> = + 2 °C	COP <sub>d</sub>	2.87	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = + 7 °C	P <sub>dh</sub>	4.7	kW	T <sub>j</sub> = + 7 °C	COP <sub>d</sub>	5.83	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = +12 °C	P <sub>dh</sub>	4.5	kW	T <sub>j</sub> = +12 °C	COP <sub>d</sub>	7.05	-
Degradation co-efficient (**)	C <sub>dh</sub>	0.99	-				
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	6.4	kW	T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.98	-
T <sub>j</sub> = operation limit temperature	P <sub>dh</sub>	6.0	kW	T <sub>j</sub> = operation limit temperature	COP <sub>d</sub>	1.28	-
T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	P <sub>dh</sub>	-	kW	T <sub>j</sub> = - 15 °C (if TOL < - 20 °C)	COP <sub>d</sub>	-	-
Bivalent temperature	T <sub>biv</sub>	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P <sub>OFF</sub>	0.015	kW	Rated heat output (*)	P <sub>sup</sub>	0.0	kW
Thermostat-off mode	P <sub>TO</sub>	0.015	kW				
Standby mode	P <sub>SB</sub>	0.015	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.000	kW				

Other items				Rated air flow rate, outdoors	-	3300	m <sup>3</sup> /h
Capacity control		variable					
Sound power level, indoors/outdoors	L <sub>WA</sub>	40 / 68	dB(A)				
Annual energy consumption	Q <sub>HE</sub>	2389	kWh				

For heat pump combination heater:				Water heating energy efficiency	$\eta_{wh}$	-	%
Declared load profile		-					
Daily electricity consumption	Q <sub>elec</sub>	-	kW/h				
Annual electricity consumption	AEC	-	kW/h				

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(\*\*) If C<sub>dh</sub> is not determined by measurement then the default degradation coefficient is C<sub>dh</sub> = 0,9.