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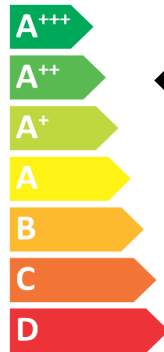
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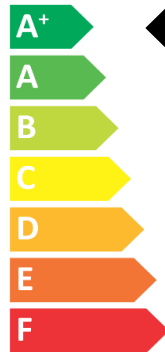


Indoor unit
Outdoor unit

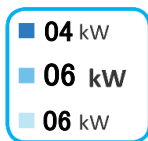
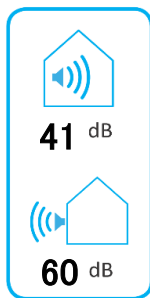
E*ST17/20D-***D
SUZ-SWM60VA



A++



A+



1. SPACE HEATER

		For medium-temperature application													For low-temperature application												
1	2	3	6	8	11	9	13	15	16	21	22	17	18	25	4	6	8	11	9	13	15	16	21	22	17	18	25
Outdoor unit	Indoor unit	Medium-temperature application	Seasonal space heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L _{WA} , indoor	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	Sound power level L _{WA} , outdoor	Low-temperature application	Seasonal space heating energy efficiency class	Rated heat output under average climate conditions	Seasonal space heating energy efficiency under average climate conditions	For space heating, annual energy consumption under average climate conditions	Sound power level L _{WA} , indoor	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	Sound power level L _{WA} , outdoor
		kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	dB	kWh	kWh	dB	kW	%	kWh	dB	kW	kW	%	%	kWh	kWh	dB	
SUZ-SWM40VA	EHSD-****D	✓	A++	5	129	2888	41	4	5	105	155	3196	1560	58	✓	A+++	5	180	2301	41	4	5	141	216	2953	1247	58
	ERSD-****D	✓	A++	5	132	2806	41	4	5	108	160	3108	1506	58	✓	A+++	5	187	2220	41	4	5	145	225	2858	1195	58
SUZ-SWM60VA	EHSD-****D	✓	A++	6	130	3727	41	4	6	106	138	3714	2268	60	✓	A+++	7	181	2957	41	5	7	143	192	3037	1812	60
	ERSD-****D	✓	A++	6	133	3638	41	4	6	109	142	3617	2218	60	✓	A+++	7	187	2876	41	5	7	148	198	2943	1757	60
SUZ-SWM80VA	EHSD-****D	✓	A++	7	131	4378	41	4	7	106	135	3977	2743	62	✓	A+++	7	182	3175	41	5	7	144	186	3297	2005	62
	ERSD-****D	✓	A++	7	133	4301	41	4	7	109	138	3868	2695	62	✓	A+++	7	187	3094	41	5	7	148	191	3206	1954	62

2.COMBINATION HEATER

		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	25	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Outdoor unit	Indoor unit	Medium-temperature application	Declared load profile	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 electricity 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 _{WA} , indoor	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual electricity consumption under colder climate conditions	For water heating, annual electricity consumption under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L _{WA} , outdoor	Low-temperature application	Declared load profile	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 electricity 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 _{WA} , indoor	Work only during off-peak hours	Rated heat output under colder climate conditions	Rated heat output under warmer climate conditions	For space heating, annual energy consumption under colder climate conditions	For space heating, annual energy consumption under warmer climate conditions	For water heating, annual electricity consumption under colder climate conditions	For water heating, annual electricity consumption under warmer climate conditions	Seasonal space heating energy efficiency under colder climate conditions	Seasonal space heating energy efficiency under warmer climate conditions	Water heating energy efficiency under colder climate conditions	Water heating energy efficiency under warmer climate conditions	Sound power level L _{WA} , outdoor
		kW	kWh	kWh	%	%	dB	kW	kW	kWh	kWh	kWh	kWh	kWh	kWh	%	%	%	%	%	%	%	%	dB	kW	kWh	kWh	%	%	dB	kW	kWh	kWh	%	%	dB	kW	kWh	kWh	%	%	%	%	dB	
SUZ-SWM40VA	EHST17D-****D	✓	L	A++	A+	5	2888	722	129	148	41	-	4	5	3196	1560	900	641	105	155	119	167	58	✓	L	A+++	A+	5	2301	722	180	148	41	-	4	5	2953	1247	900	641	141	216	119	167	58
	ERST17D-****D	✓	L	A++	A+	5	2806	722	132	148	41	-	4	5	3108	1506	900	641	108	160	119	167	58	✓	L	A+++	A+	5	2220	722	187	148	41	-	4	5	2858	1195	900	641	145	225	119	167	58
	EHST20D-****D	✓	L	A++	A+	5	2888	675	129	159	41	-	4	5	3196	1560	823	621	105	155	130	173	58	✓	L	A+++	A+	5	2301	675	180	159	41	-	4	5	2953	1247	823	621	141	216	130	173	58
	ERST20D-****D	✓	L	A++	A+	5	2806	675	132	159	41	-	4	5	3108	1506	823	621	108	160	130	173	58	✓	L	A+++	A+	5	2220	675	187	159	41	-	4	5	2858	1195	823	621	145	225	130	173	58
	EHST30D-****D	✓	XL	A++	A+	5	2888	1345	129	128	41	-	4	5	3196	1560	1609	1159	105	155	107	149	58	✓	XL	A+++	A+	5	2301	1345	180	128	41	-	4	5	2953	1247	1609	1159	141	216	107	149	58
SUZ-SWM60VA	ERST30D-****D	✓	XL	A++	A+	5	2806	1345	132	128	41	-	4	5	3108	1506	1609	1159	108	160	107	149	58	✓	XL	A+++	A+	5	2220	1345	187	128	41	-	4	5	2858	1195	1609	1159	145	225	107	149	58
	EHST17D-****D	✓	L	A++	A+	6	3727	744	130	144	41	-	4	6	3714	2268	900	641	106	138	119	167	60	✓	L	A+++	A+	7	2957	744	181	144	41	-	5	7	3037	1812	900	641	143	192	119	167	60
	ERST17D-****D	✓	L	A++	A+	6	3638	744	133	144	41	-	4	6	3617	2218	900	641	109	142	119	167	60	✓	L	A+++	A+	7	2876	744	181	148	41	-	5	7	2943	1757	900	641	148	198	119	167	60
	EHST20D-****D	✓	L	A++	A+	6	3727	723	130	148	41	-	4	6	3714	2268	821	621	106	138	130	173	60	✓	L	A+++	A+	7	2957	723	181	148	41	-	5	7	3037	1812	821	621	143	192	130	173	60
	ERST20D-****D	✓	L	A++	A+	6	3638	723	133	148	41	-	4	6	3617	2218	821	621	109	142	130	173	60	✓	L	A+++	A+	7	2876	723	187	148	41	-	5	7	2943	1757	821	621	148	198	130	173	60
SUZ-SWM80VA	EHST30D-****D	✓	XL	A++	A+	6	3727	1339	130	128	41	-	4	6	3714	2268	1605	1053	106	138	107	164	60	✓	XL	A+++	A+	7	2957	1339	181	128	41	-	5	7	3037	1812	1605	1053	143	192	107	164	60
	ERST30D-****D	✓	XL	A++	A+	6	3638	1339	133	128	41	-	4	6	3617	2218	1605	1053	109	142	107	164	60	✓	XL	A+++	A+	7	2876	1339	187	128	41	-	5	7	2943	1757	1605	1053	148	198	107	164	60
	EHST17D-****D	✓	L	A++	A+	7	4378	744	131	144	41	-	4	7	3977	2743	900	641	106	135	119	167	62	✓	L	A+++	A+	7	3175	744	182	144	41	-	5	7	3297	2005	900	641	144	186	119	167	62
	ERST17D-****D	✓	L	A++	A+	7	4301	744	133	144	41	-	4	7	3868	2695	900	641	109	138	119	167	62	✓	L	A+++	A+	7	3094	744	187	144	41	-	5	7	3206	1954	900	641	148	191	119	167	62
	EHST20D-****D	✓	L	A++	A+	7	4378	723	131	148	41	-	4	7	3977	2743	821	621	106	135	130	173	62	✓	L	A+++	A+	7	3175	723	182	148	41	-	5	7	3297	2005	821	621	144	186	130	173	62
ERST20D-****D	✓	L	A++	A+	7	4301	723	133	148	41	-	4	7	3868	2695	821	621	109	138	130	173	62	✓	L	A+++	A+	7	3094	723	187	148	41	-	5	7	3206	1954	821	621	148	191	130	173	62	
SUZ-SWM80VA	EHST30D-****D	✓	XL	A++	A+	7	4378	1339	131	128	41	-	4	7	3977	2743	1605	1053	106	135	107	164	62	✓	XL	A+++	A+	7	3175	1339	182	128	41	-	5	7	3297	2005	1605	1053	144	186	107	164	62
	ERST30D-****D	✓	XL	A++	A+	7	4301	1339	133	128	41	-	4	7	3868	2695	1605	1053	109	138	107	164	62	✓	XL	A+++	A+	7	3094	1339	187	128	41	-	5	7	3206	1954	1605	1053	148	191	107	164	62

	English Nederlands suomi	Deutsch Svenska Čeština	Français Dansk Български	Italiano Português Polski	Español Ελληνικά -
1	Outdoor unit buitenunit Ulkoyksikkö	Außengerät Utomhusenhet Venkovní jednotka	unité extérieure Udendørs enhed Външно тяло	unità esterna unidade exterior jednostka zewnętrzna	unidad exterior Εξωτερική μονάδα -
2	Indoor unit binnenunit Sisäyksikkö	Innengerät Inomhusenhet Vnitřní jednotka	unité intérieure Indendørs enhed Вътрешно тяло	unità interna unidade interior jednostka wewnątrzna	unidad interior Εσωτερική μονάδα -
3	Medium-temperature application middentemperatuur-toepassing keskilämpötilan sovellus	Mitteltemperaturanwendung mediumentemperatuurapplikation středněteplotní aplikace	l'application à moyenne température middeltemperatuuravvendelsen среднотемпературното приложение	le applicazioni a media temperatura a aplicação a média temperatura zastosowania w średnich temperaturach	la aplicación de media temperatura η εφαρμογή σε μέση θερμοκρασία -
4	Low-temperature application lagetemperatuur-toepassing matalanlämpötilan sovellus	Niedertemperaturanwendung lågtemperaturapplikation nízkoteplotní aplikace	l'application à basse température lavtemperaturavvendelsen нискотемпературни приложения	le applicazioni a bassa temperatura a aplicação a baixa temperatura zastosowania w niskich temperaturach	la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία -
5	Declared load profile Opgegeven capaciteitsprofiel Ilmoitettu kuormitusprofiili	Angegebenes Lastprofil Deklarerad belastningsprofil Deklarovaný zátěžový profil	Profil de soutirage déclaré Angivet forbrugsprofil Объявлен товароv профиль	Profilo di carico dichiarato Perfil de carga declarado Deklarowany profil obciążenia	Perfil de carga declarado Δηλωμένο προφίλ φορτίου -
6	Seasonal space heating energy efficiency class de seizoensgebonden energie-efficiëntieklasse voor ruimteverwarming tilalämmityksen kausittainen energiatehokkuusluokka	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz säsongrelaterade energieeffektivitetsklass vid rumsuppvärmning třída sezonní energetické účinnosti vytápění	la classe d'efficacité énergétique saisonnière, pour le chauffage des locaux klassen for årsvirkningsgrad ved rumopvarmning класът на сезонната отоплителна енергийна ефективност	la classe di efficienza energetica stagionale del riscaldamento d'ambiente A classe de eficiência energética do aquecimento ambiente sazonal A klasa sezonowej efektywności energetycznej ogrzewania pomieszczeń	la clase de eficiencia energética estacional de calefacción η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου -
7	Water heating energy efficiency class de energie-efficiëntieklasse voor waterverwarming vedenlämmityksen energiatehokkuusluokka	die Klasse für die Warmwasserbereitungs-Energieeffizienz energieeffektivitetsklass vid vattenuppvärmning třída energetické účinnosti ohřevu vody	la classe d'efficacité énergétique, pour le chauffage de l'eau klassen for årsvirkningsgrad ved vandopvarmning класът на енергийната ефективност при подгряване на вода	la classe di efficienza energetica del riscaldamento dell'acqua A classe de eficiência energética do aquecimento de água Klasa efektywności energetycznej podgrzewania wody	la clase de eficiencia energética del caldeo de agua η τάξη ενεργειακής απόδοσης θέρμανσης νερού -
8	Rated heat output under average climate conditions de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden) nimellislämpöteho(keskimääräisissä ilmasto-olosuhteissa)	die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen Den nominella avgivna värmeeffekten(under genomsnittliga klimatförhållanden) jmenovitý tepelný výkon(za průměrných klimatických podmínek)	la puissance thermique nominale dans les conditions climatiques moyennes den nominelle nytteeffekt(under gennemsnitlige klimaforhold) номиналната топлинна мощност(при средни климатични условия)	la potenza termica nominale(in condizioni climatiche medie) A potência calorífica nominal(em condições climáticas médias) znamionowa moc cieplna(w warunkach klimatu umiarkowanego)	la potencia calorífica nominal(en condiciones climáticas medias) η ονομαστική θερμική ισχύς(υπό μέσες κλιματικές συνθήκες) -
9	For space heating, annual energy consumption under average climate conditions voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden) tilalämmityksestä vuotuinen energiankulutus(keskimääräisissä ilmasto-olosuhteissa)	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen För rumsuppvärmning, årlig energiförbrukning(vid genomsnittliga klimatförhållanden) pro vytápění – roční spotřeba energie za průměrných klimatických podmínek	pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions climatiques moyennes) for rumopvarmning det årlige energiforbrug(under gennemsnitlige klimaforhold) за отопление, годишното потребление на енергия(при средни климатични условия)	per il riscaldamento d'ambiente, il consumo annuo di energia(in condizioni climatiche medie) Para o aquecimento ambiente, o consumo anual de energia(em condições climáticas médias) w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii(w warunkach klimatu umiarkowanego)	para calentar espacios, el consumo anual de energía(en condiciones climáticas medias) για τη θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας(υπό μέσες κλιματικές συνθήκες) -
10	For water heating, annual electricity consumption under average climate conditions voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden) vedenlämmityksestä vuotuinen sähkönkulutus(keskimääräisissä ilmasto-olosuhteissa)	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen För vattenuppvärmning, årlig elförbrukning(vid genomsnittliga klimatförhållanden) pro ohřev vody – roční spotřeba elektrické energie za průměrných klimatických podmínek	pour le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions climatiques moyennes) for vandopvarmning det årlige elforbrug(under gennemsnitlige klimaforhold) за подгряване на вода, годишното потребление(при средни климатични условия)	per il riscaldamento dell'acqua, il consumo annuo di energia(in condizioni climatiche medie) para o aquecimento de água, o consumo anual de eletricidade(em condições climáticas médias) w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej(w warunkach klimatu umiarkowanego)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias) για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(υπό μέσες κλιματικές συνθήκες) -
11	Seasonal space heating energy efficiency under average climate conditions de seizoensgebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden) tilalämmityksen kausittainen energiatehokkuus(keskimääräisissä ilmasto-olosuhteissa)	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen Säsongmedelverkningsgrad för rumsuppvärmning(vid genomsnittliga klimatförhållanden) sezonní energetická účinnost vytápění za průměrných klimatických podmínek	l'efficacité énergétique saisonnière pour le chauffage des locaux(dans les conditions climatiques moyennes) årsvirkningsgraden ved rumopvarmning(under gennemsnitlige klimaforhold) сезонната енергийна ефективност при отопление(при средни климатични условия)	l'efficienza energetica stagionale di riscaldamento d'ambiente(in condizioni climatiche medie) A eficiência energética do aquecimento ambiente sazonal(em condições climáticas médias) sezonowa efektywność energetyczna ogrzewania pomieszczeń(w warunkach klimatu umiarkowanego)	la eficiencia energética estacional de calefacción(en condiciones climáticas medias) η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(υπό μέσες κλιματικές συνθήκες) -
12	Water heating energy efficiency under average climate conditions de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden) vedenlämmityksen energiatehokkuus(keskimääräisissä ilmasto-olosuhteissa)	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen Energieeffektivität vid vattenuppvärmning(vid genomsnittliga klimatförhållanden) energetická účinnost ohřevu vody za průměrných klimatických podmínek	l'efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques moyennes) energieeffektivitet ved vandopvarmning(under gennemsnitlige klimaforhold) енергийната ефективност при подгряване на вода(при средни климатични условия)	l'efficienza energetica di riscaldamento dell'acqua(in condizioni climatiche medie) a eficiência energética do aquecimento de água(em condições climáticas médias) efektywność energetyczna podgrzewania wody(w warunkach klimatu umiarkowanego)	la eficiencia energética del caldeo de agua(en condiciones climáticas medias) η ενεργειακή απόδοση θέρμανσης νερού(υπό μέσες κλιματικές συνθήκες) -
13	Sound power level L _{WA} indoor het geluidsvermogensniveau L _{WA} binnen äänitehotaso L _{WA} sisällä	der Schalleistungspegel L _{WA} in Gebäuden Ljudeffektivnivå L _{WA} i inomhus hladina akustického výkonu L _{WA} ve vnitřním prostoru	le niveau de puissance acoustique L _{WA} à l'intérieur lydeeffektiveauet L _{WA} i inde ниводо на звуковата мощност L _{WA} на закрито	il livello di potenza sonora L _{WA} all'interno O nível de potência sonora L _{WA} no interior poziom mocy akustycznej L _{WA} w pomieszczeniu	el nivel de potencia acústica L _{WA} en interiores η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου -
14	Work only during off-peak hours werken uitsluitend in de daluren toimimaan ainoastaan kulutusluppujen ulkopuolella	dass ein ausschließlicher Betrieb des Kombiheizgerätes zu Schwachlastzeiten drivas uteslutande under perioder med låg belastning provou pouze mimo špičku	fonctionner qu'en heures creuses fungere uden for spidsbelastningsperioder работи само в часовете извън върховото натоварване	funzionare soltanto durante le ore morte de funcionar unicamente fora das horas de pico pracować jedynie w godzinach poza szczytowym obciążeniem	funcionar solamente durante las horas de baja demanda λειτουργία μόνο εκτός των ωρών αιχμής -
15	Rated heat output under colder climate conditions de nominale warmteafgifte, onder koudere klimaatomstandigheden nimellislämpöteho, kylmissä ilmasto-olosuhteissa	die Wärmenennleistung bei kälteren Klimaverhältnissen Nominell avgiven värmeeffekt vid kallare klimatförhållanden jmenovitý tepelný výkon za chladnějších klimatických podmínek	la puissance thermique nominale, dans les conditions climatiques plus froides den nominelle nytteeffekt under koldere klimaforhold номиналната топлинна мощност при по-студени климатични условия	A potencia calorífica nominal em condições climáticas mais frias Znamionowa moc cieplna w warunkach klimatu chłodnego	la potencia calorífica nominal en condiciones climáticas más frías η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες -
16	Rated heat output under warmer climate conditions de nominale warmteafgifte, onder warmere klimaatomstandigheden nimellislämpöteho, lämpimissä ilmasto-olosuhteissa	die Wärmenennleistung bei wärmeren Klimaverhältnissen Nominell avgiven värmeeffekt vid varmare klimatförhållanden jmenovitý tepelný výkon za teplejších klimatických podmínek	la puissance thermique nominale, dans les conditions climatiques plus chaudes den nominelle nytteeffekt under varmere klimaforhold номиналната топлинна мощност при по-топли климатични условия	A potencia termica nominal, in condizioni climatiche più calde A potência calorífica nominal em condições climáticas mais quentes znamionowa moc cieplna w warunkach klimatu ciepłego	la potencia calorífica nominal en condiciones climáticas más cálidas η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες -
17	For space heating, annual energy consumption under colder climate conditions voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere klimaatomstandigheden tilalämmityksestä vuotuinen energiankulutus kylmissä ilmasto-olosuhteissa	für die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen För rumsuppvärmning, årlig energiförbrukning under kallare klimatförhållanden pro vytápění – roční spotřeba energie za chladnějších klimatických podmínek	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides for rumopvarmning det årlige energiforbrug under koldere klimaforhold за отопление, годишното потребление на енергия при по-студени климатични условия	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più fredde Para o aquecimento ambiente, o consumo anual de energia em condições climáticas mais frias w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii w warunkach klimatu chłodnego	para calentar espacios, el consumo anual de energía en condiciones climáticas más frías για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες -
18	For space heating, annual energy consumption under warmer climate conditions voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden tilalämmityksestä vuotuinen energiankulutus lämpimissä ilmasto-olosuhteissa	für die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen För rumsuppvärmning, årlig energiförbrukning under varmare klimatförhållanden pro vytápění – roční spotřeba energie za teplejších klimatických podmínek	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes for rumopvarmning det årlige energiforbrug under varmere klimaforhold за отопление, годишното потребление на енергия при по-топли климатични условия	per il riscaldamento d'ambiente, il consumo annuo di energia, in condizioni climatiche più calde Para o aquecimento ambiente, o consumo anual de energia em condições climáticas mais quentes w odniesieniu do ogrzewania pomieszczeń, roczne zużycie energii w warunkach klimatu ciepłego	para calentar espacios, el consumo anual de energía en condiciones climáticas más cálidas για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό θερμότερες κλιματικές συνθήκες -
19	For water heating, annual energy consumption under colder climate conditions voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden vedenlämmityksestä vuotuinen sähkönkulutus kylmissä ilmasto-olosuhteissa	für die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhältnissen För vattenuppvärmning, årlig elförbrukning under kallare klimatförhållanden pro ohřev vody – roční spotřeba elektrické energie za chladnějších klimatických podmínek	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus froides for vandopvarmning det årlige elforbrug under koldere klimaforhold за подгряване на вода, годишното потребление на електроенергия при по-студени климатични условия	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde para o aquecimento de água, o consumo anual de eletricidade em condições climáticas mais frias w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach klimatu chłodnego	para calentar agua, el consumo anual de electricidad en condiciones climáticas más frías για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό ψυχρότερες κλιματικές συνθήκες -
20	For water heating, annual energy consumption under warmer climate conditions voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden vedenlämmityksestä vuotuinen sähkönkulutus lämpimissä ilmasto-olosuhteissa	für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen För vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden pro ohřev vody – roční spotřeba elektrické energie za teplejších klimatických podmínek	pour le chauffage de l'eau, la consommation annuelle d'électricité, dans les conditions climatiques plus chaudes for vandopvarmning det årlige elforbrug under varmere klimaforhold за подгряване на вода, годишното потребление на електроенергия при по-топли климатични условия	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più calde para o aquecimento de água, o consumo anual de eletricidade em condições climáticas mais quentes w odniesieniu do podgrzewania wody, roczne zużycie energii elektrycznej w warunkach klimatu ciepłego	para calentar agua, el consumo anual de electricidad en condiciones climáticas más cálidas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές συνθήκες -
21	Seasonal space heating energy efficiency under colder climate conditions de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden tilalämmityksen kausittainen energiatehokkuus kylmissä ilmasto-olosuhteissa	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen Säsongmedelverkningsgrad för rumsuppvärmning under kallare klimatförhållanden sezonní energetická účinnost vytápění za chladnějších klimatických podmínek	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides årsvirkningsgraden ved rumopvarmning under koldere klimaforhold сезонната енергийна ефективност при отопление при по-студени климатични условия	l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più fredde A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais frias sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu chłodnego	la eficiencia energética estacional de calefacción en condiciones climáticas más frías η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό ψυχρότερες κλιματικές συνθήκες -
22	Seasonal space heating energy efficiency under warmer climate conditions de seizoensgebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden tilalämmityksen kausittainen energiatehokkuus lämpimissä ilmasto-olosuhteissa	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen Säsongmedelverkningsgrad för rumsuppvärmning under varmare klimatförhållanden sezonní energetická účinnost vytápění za teplejších klimatických podmínek	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes årsvirkningsgraden ved rumopvarmning under varmere klimaforhold сезонната енергийна ефективност при отопление при по-топли климатични условия	l'efficienza energetica stagionale di riscaldamento d'ambiente in condizioni climatiche più calde A eficiência energética do aquecimento ambiente sazonal em condições climáticas mais quentes sezonowa efektywność energetyczna ogrzewania pomieszczeń w warunkach klimatu ciepłego	la eficiencia energética estacional de calefacción en condiciones climáticas más cálidas η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό θερμότερες κλιματικές συνθήκες -
23	Water heating energy efficiency under colder climate conditions de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden vedenlämmityksen energiatehokkuus kylmissä ilmasto-olosuhteissa	die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen Energieeffektivität vid vattenuppvärmning under kallare klimatförhållanden energetická účinnost ohřevu vody za chladnějších klimatických podmínek	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides energieeffektivitet ved vandopvarmning under koldere klimaforhold енергийната ефективност при подгряване на вода при по-студени климатични условия	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde a eficiencia energética do aquecimento de água em condições climáticas mais frias efektywność energetyczna podgrzewania wody w warunkach klimatu chłodnego	la eficiencia energética de caldeo de agua en condiciones climáticas más frías η ενεργειακή απόδοση της θέρμανσης νερού υπό ψυχρότερες κλιματικές συνθήκες -
24	Water heating energy efficiency under warmer climate conditions de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden vedenlämmityksen energiatehokkuus lämpimissä ilmasto-olosuhteissa	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen Energieeffektivität vid vattenuppvärmning under varmare klimatförhållanden energetická účinnost ohřevu vody za teplejších klimatických podmínek	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes energieeffektivitet ved vandopvarmning under varmere klimaforhold енергийната ефективност при подгряване на вода при по-топли климатични условия	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde a eficiencia energética do aquecimento de água em condições climáticas mais quentes efektywność energetyczna podgrzewania wody w warunkach klimatu ciepłego	la eficiencia energética de caldeo de agua en condiciones climáticas más cálidas η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες -
25	Sound power level L _{WA} outdoor het geluidsvermogensniveau L _{WA} buiten äänitehotaso L _{WA} ulkona	der Schalleistungspegel L _{WA} im Freien Ljudeffektivnivå L _{WA} i utomhus hladina akustického výkonu L _{WA} ve venkovním prostoru	le niveau de puissance acoustique L _{WA} à l'extérieur lydeeffektiveau L _{WA} i ude ниводо на звуковата мощност L _{WA} на открито	il livello di potenza sonora L _{WA} all'esterno O nível de potência sonora L _{WA} no exterior poziom mocy akustycznej L _{WA} na zewnątrz	el nivel de potencia acústica L _{WA} en exteriores η στάθμη ηχητικής ισχύος L _{WA} εξωτερικού χώρου -

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST17D-****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	6.0	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.3	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.27	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	4.48	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.34	-
Tj = + 7 °C	Pdh	2.6	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.90	-
Tj = +12 °C	Pdh	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.3	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.1	kW	Rated heat output (*)	Psup	0.9	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3727	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	144	%	
Daily electricity consumption	Q _{elec}	3.380	kWh				
Annual electricity consumption	AEC	744	kWh				

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

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



Atsushi EDAYOSHI
 Manager, Quality Assurance Department
 UNITED KINGDOM

· Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.
 · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST17D-****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	6.6	kW	Seasonal space heating energy efficiency	η_s	181	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.8	kW	Tj = - 7 °C	COPd	3.02	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.48	-
Tj = + 2 °C	Pdh	3.6	kW	Tj = + 7 °C	COPd	6.36	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.39	-
Tj = + 7 °C	Pdh	2.8	kW	Tj = bivalent temperature	COPd	3.02	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.66	-
Tj = +12 °C	Pdh	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.95	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.8	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.5	kW	Rated heat output (*)	Psup	1.1	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2957	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	144	%	
Daily electricity consumption	Q _{elec}	3.380	kWh				
Annual electricity consumption	AEC	744	kWh				

Contact details

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

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

Atsushi EDAYOSHI

The signature is signed in the average climate / medium-temperature section.

Manager, Quality Assurance Department

UNITED KINGDOM

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST17D-****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	4.1	kW	Seasonal space heating energy efficiency	η_s	106	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.8	kW	Tj = - 7 °C	COPd	2.41	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.15	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	4.07	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	5.76	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.36	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.36	-
Tj = +12 °C	Pdh	1.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	3.9	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.9	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	4.1	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Rated air flow rate, outdoors			
Off mode	P _{OFF}	0.015	kW			2070	m ³ /h
Thermostat-off mode	P _{TO}	0.015	kW	Other items			
Standby mode	P _{SB}	0.015	kW	Capacity control	variable		
Crankcase heater mode	P _{CK}	0.000	kW	Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA
				Annual energy consumption	Q _{HE}	3714	kWh

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	119	%	
Daily electricity consumption	Q _{elec}	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

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

The identification and signature of the person empowered to bind the supplier; Atsushi EDAYOSHI
 The signature is signed in the average climate / medium-temperature section. Manager, Quality Assurance Department
 UNITED KINGDOM

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 (*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST17D-****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	4.5	kW	Seasonal space heating energy efficiency	η_s	143	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{d,h}	3.2	kW	T _j = - 7 °C	COP _d	3.50	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = + 2 °C	COP _d	4.00	-
T _j = + 2 °C	P _{d,h}	2.7	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	6.90	-
T _j = + 7 °C	P _{d,h}	2.3	kW	T _j = bivalent temperature	COP _d	2.06	-
Degradation co-efficient (**)	C _{d,h}	0.97	-	T _j = operation limit temperature (***)	COP _d	2.06	-
T _j = +12 °C	P _{d,h}	2.0	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	4.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	4.3	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW	Rated heat output (*)	P _{sup}	4.5	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3037	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	119	%	
Daily electricity consumption	Q _{elec}	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

Contact details		MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD.		Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.	
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The identification and signature of the person empowered to bind the supplier;

Atsushi EDAYOSHI

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Manager, Quality Assurance Department

UNITED KINGDOM

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating P_{designh}, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating sup(T_j).

(**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0,9.

(***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST17D-****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	6.0	kW	Seasonal space heating energy efficiency	η_s	138	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	1.87	-
Tj = + 2 °C	Pdh	6.0	kW	Tj = + 7 °C	COPd	2.94	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	5.00	-
Tj = + 7 °C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	1.87	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.87	-
Tj = +12 °C	Pdh	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	6.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	6.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2268	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	167	%	
Daily electricity consumption	Q _{elec}	2.910	kWh				
Annual electricity consumption	AEC	641	kWh				

Contact details

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST17D-****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	6.6	kW	Seasonal space heating energy efficiency	η_s	192	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	3.32	-
Tj = + 2 °C	Pdh	6.6	kW	Tj = + 7 °C	COPd	4.18	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.45	-
Tj = + 7 °C	Pdh	4.2	kW	Tj = bivalent temperature	COPd	3.32	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	3.32	-
Tj = +12 °C	Pdh	2.0	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.95	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	6.6	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	6.6	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	1812	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	167	%	
Daily electricity consumption	Q _{elec}	2.910	kWh				
Annual electricity consumption	AEC	641	kWh				

Contact details	MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD.	Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.
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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-****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	6.0	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.3	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.27	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	4.48	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.34	-
Tj = + 7 °C	Pdh	2.6	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.90	-
Tj = +12 °C	Pdh	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.3	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.1	kW	Rated heat output (*)	Psup	0.9	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3727	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	148	%	
Daily electricity consumption	Q _{elec}	3.280	kWh				
Annual electricity consumption	AEC	723	kWh				

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

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



Atsushi EDAYOSHI
 Manager, Quality Assurance Department
 UNITED KINGDOM

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-****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	6.6	kW	Seasonal space heating energy efficiency	η_s	181	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _d h	5.8	kW	T _j = - 7 °C	COP _d	3.02	-
Degradation co-efficient (**)	C _d h	0.99	-	T _j = + 2 °C	COP _d	4.48	-
T _j = + 2 °C	P _d h	3.6	kW	T _j = + 7 °C	COP _d	6.36	-
Degradation co-efficient (**)	C _d h	0.98	-	T _j = +12 °C	COP _d	8.39	-
T _j = + 7 °C	P _d h	2.8	kW	T _j = bivalent temperature	COP _d	3.02	-
Degradation co-efficient (**)	C _d h	0.97	-	T _j = operation limit temperature (***)	COP _d	2.66	-
T _j = +12 °C	P _d h	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _d h	0.95	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _d h	5.8	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _d h	5.5	kW	Rated heat output (*)	P _{sup}	1.1	kW
Bivalent temperature	T _{biv}	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2957	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	148	%	
Daily electricity consumption	Q _{elec}	3.280	kWh				
Annual electricity consumption	AEC	723	kWh				

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

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Manager, Quality Assurance Department

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

 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature T_j is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-****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	4.1	kW	Seasonal space heating energy efficiency	η_s	106	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.8	kW	Tj = - 7 °C	COPd	2.41	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.15	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	4.07	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	5.76	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.36	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.36	-
Tj = +12 °C	Pdh	1.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	3.9	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.9	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	4.1	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3714	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	130	%	
Daily electricity consumption	Q _{elec}	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

Contact details

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-****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	4.5	kW	Seasonal space heating energy efficiency	η_s	143	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _d h	3.2	kW	T _j = - 7 °C	COP _d	3.50	-
Degradation co-efficient (**)	C _d h	0.98	-	T _j = + 2 °C	COP _d	4.00	-
T _j = + 2 °C	P _d h	2.7	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _d h	0.98	-	T _j = +12 °C	COP _d	6.90	-
T _j = + 7 °C	P _d h	2.3	kW	T _j = bivalent temperature	COP _d	2.06	-
Degradation co-efficient (**)	C _d h	0.97	-	T _j = operation limit temperature (***)	COP _d	2.06	-
T _j = +12 °C	P _d h	2.0	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _d h	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _d h	4.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _d h	4.3	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _d h	-	kW	Rated heat output (*)	P _{sup}	4.5	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3037	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	130	%	
Daily electricity consumption	Q _{elec}	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

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(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature T_j is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-****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	6.0	kW	Seasonal space heating energy efficiency	η_s	138	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	-	kW	Tj = - 7 °C	COPd	-	-
Degradation co-efficient (**)	Cdh	-	-	Tj = + 2 °C	COPd	1.87	-
Tj = + 2 °C	Pdh	6.0	kW	Tj = + 7 °C	COPd	2.94	-
Degradation co-efficient (**)	Cdh	1.00	-	Tj = +12 °C	COPd	5.00	-
Tj = + 7 °C	Pdh	3.9	kW	Tj = bivalent temperature	COPd	1.87	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = operation limit temperature (***)	COPd	1.87	-
Tj = +12 °C	Pdh	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	6.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	6.0	kW	Rated heat output (*)	Psup	0.0	kW
Bivalent temperature	Tbiv	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2268	kWh				

For heat pump combination heater:							
Declared load profile				Water heating energy efficiency			
L				η_{wh}	173	%	
Daily electricity consumption	Q _{elec}	2.820	kWh				
Annual electricity consumption	AEC	621	kWh				

Contact details		MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD.	Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.
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The identification and signature of the person empowered to bind the supplier;

Atsushi EDAYOSHI

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Manager, Quality Assurance Department

UNITED KINGDOM

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η_s	130	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.3	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.27	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	4.48	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	6.34	-
Tj = + 7 °C	Pdh	2.6	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.90	-
Tj = +12 °C	Pdh	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.3	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.1	kW	Rated heat output (*)	Psup	0.9	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3727	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	148	%	
Daily electricity consumption	Q _{elec}	3.280	kWh				
Annual electricity consumption	AEC	723	kWh				

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:	yes	
Water-to-water heat pump:	no	
Brine-to-water heat pump:	no	
Low-temperature heat pump:	no	
Equipped with a supplementary heater:	no	
Heat pump combination heater:	yes	
Parameters for	medium-temperature application.	
Parameters for	colder climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.1	kW	Seasonal space heating energy efficiency	η_s	106	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.8	kW	Tj = - 7 °C	COPd	2.41	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.15	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	4.07	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	5.76	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.36	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.36	-
Tj = +12 °C	Pdh	1.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	3.9	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.9	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	4.1	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.015	kW	Thermostat-off mode	P _{TO}	0.015	kW
Thermostat-off mode	P _{TO}	0.015	kW	Standby mode	P _{SB}	0.015	kW
Standby mode	P _{SB}	0.015	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3714	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	130	%	
Daily electricity consumption	Q _{elec}	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.5	kW	Seasonal space heating energy efficiency	η_s	143	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{d,h}	3.2	kW	T _j = - 7 °C	COP _d	3.50	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = + 2 °C	COP _d	4.00	-
T _j = + 2 °C	P _{d,h}	2.7	kW	T _j = + 7 °C	COP _d	5.00	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	6.90	-
T _j = + 7 °C	P _{d,h}	2.3	kW	T _j = bivalent temperature	COP _d	2.06	-
Degradation co-efficient (**)	C _{d,h}	0.97	-	T _j = operation limit temperature (***)	COP _d	2.06	-
T _j = +12 °C	P _{d,h}	2.0	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	4.3	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	4.3	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW	Rated heat output (*)	P _{sup}	4.5	kW
Bivalent temperature	T _{biv}	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	-22	°C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3037	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	130	%
Daily electricity consumption	Q _{elec}	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

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(**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0,9.

(***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:	yes	
Water-to-water heat pump:	no	
Brine-to-water heat pump:	no	
Low-temperature heat pump:	no	
Equipped with a supplementary heater:	no	
Heat pump combination heater:	yes	
Parameters for	medium-temperature application.	
Parameters for	warmer climate conditions.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η_s	138	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{d,h}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	-	-	T _j = + 2 °C	COP _d	1.87	-
T _j = + 2 °C	P _{d,h}	6.0	kW	T _j = + 7 °C	COP _d	2.94	-
Degradation co-efficient (**)	C _{d,h}	1.00	-	T _j = +12 °C	COP _d	5.00	-
T _j = + 7 °C	P _{d,h}	3.9	kW	T _j = bivalent temperature	COP _d	1.87	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = operation limit temperature (***)	COP _d	1.87	-
T _j = +12 °C	P _{d,h}	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.96	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	6.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	6.0	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2268	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	173	%	
Daily electricity consumption	Q _{elec}	2.820	kWh				
Annual electricity consumption	AEC	621	kWh				

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(**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0,9.

(***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	EHST20D-MED
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		no
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	η_s	192	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{d,h}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	-	-	T _j = + 2 °C	COP _d	3.32	-
T _j = + 2 °C	P _{d,h}	6.6	kW	T _j = + 7 °C	COP _d	4.18	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = +12 °C	COP _d	6.45	-
T _j = + 7 °C	P _{d,h}	4.2	kW	T _j = bivalent temperature	COP _d	3.32	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = operation limit temperature (***)	COP _d	3.32	-
T _j = +12 °C	P _{d,h}	2.0	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.95	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	6.6	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	6.6	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	1812	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	173	%	
Daily electricity consumption	Q _{elec}	2.820	kWh				
Annual electricity consumption	AEC	621	kWh				

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(**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0,9.

(***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	ERST17D-****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.

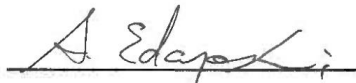
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.0	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.3	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.33	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	4.48	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.34	-
Tj = + 7 °C	Pdh	2.6	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.90	-
Tj = +12 °C	Pdh	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.3	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.1	kW	Rated heat output (*)	Psup	0.9	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3638	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	144	%	
Daily electricity consumption	Q _{elec}	3.380	kWh				
Annual electricity consumption	AEC	744	kWh				

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	ERST17D-****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	6.6	kW	Seasonal space heating energy efficiency	η_s	187	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.8	kW	Tj = - 7 °C	COPd	3.02	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.56	-
Tj = + 2 °C	Pdh	3.6	kW	Tj = + 7 °C	COPd	6.36	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.39	-
Tj = + 7 °C	Pdh	2.8	kW	Tj = bivalent temperature	COPd	3.02	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.66	-
Tj = +12 °C	Pdh	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.95	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.8	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.5	kW	Rated heat output (*)	Psup	1.1	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2876	kWh				

For heat pump combination heater:							
Declared load profile				Water heating energy efficiency			
L				η_{wh}	144	%	
Daily electricity consumption	Q _{elec}	3.380	kWh				
Annual electricity consumption	AEC	744	kWh				

Contact details		MITSUBISHI ELECTRIC AIR CODITIONING SYSTEM EUROPE LTD.	Nettlehill Road, Houston Industrial Estate, Livingston, EH54 5EQ, Scotland, U.K.
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The identification and signature of the person empowered to bind the supplier;

Atsushi EDAYOSHI

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Manager, Quality Assurance Department

UNITED KINGDOM

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	ERST17D-****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	4.1	kW	Seasonal space heating energy efficiency	η_s	109	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.8	kW	Tj = - 7 °C	COPd	2.41	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.29	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	4.07	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	5.76	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.36	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.36	-
Tj = +12 °C	Pdh	1.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	3.9	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.9	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	4.1	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3617	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	119	%	
Daily electricity consumption	Q _{elec}	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

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(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	ERST17D-****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	4.5	kW	Seasonal space heating energy efficiency	η_s	148	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.2	kW	Tj = - 7 °C	COPd	3.43	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = + 2 °C	COPd	4.29	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	5.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.90	-
Tj = + 7 °C	Pdh	2.3	kW	Tj = bivalent temperature	COPd	2.06	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.06	-
Tj = +12 °C	Pdh	2.0	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.95	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	4.3	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.3	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	4.5	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.015	kW	Thermostat-off mode	P _{TO}	0.015	kW
Thermostat-off mode	P _{TO}	0.015	kW	Standby mode	P _{SB}	0.015	kW
Standby mode	P _{SB}	0.015	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2943	kWh				

For heat pump combination heater:				Declared load profile			
Declared load profile	L			Water heating energy efficiency	η_{wh}	119	%
Daily electricity consumption	Q _{elec}	4.090	kWh				
Annual electricity consumption	AEC	900	kWh				

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	ERST17D-****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	6.0	kW	Seasonal space heating energy efficiency	η_s	142	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{d,h}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	-	-	T _j = + 2 °C	COP _d	1.87	-
T _j = + 2 °C	P _{d,h}	6.0	kW	T _j = + 7 °C	COP _d	2.89	-
Degradation co-efficient (**)	C _{d,h}	1.00	-	T _j = +12 °C	COP _d	5.01	-
T _j = + 7 °C	P _{d,h}	3.9	kW	T _j = bivalent temperature	COP _d	1.87	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = operation limit temperature (***)	COP _d	1.87	-
T _j = +12 °C	P _{d,h}	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.96	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	6.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	6.0	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2218	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	167	%	
Daily electricity consumption	Q _{elec}	2.910	kWh				
Annual electricity consumption	AEC	641	kWh				

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 (**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0,9.

 (***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	Indoor unit:	ERST17D-****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	6.6	kW	Seasonal space heating energy efficiency	η_s	198	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dH}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dH}	-	-	T _j = + 2 °C	COP _d	3.32	-
T _j = + 2 °C	P _{dH}	6.6	kW	T _j = + 7 °C	COP _d	4.12	-
Degradation co-efficient (**)	C _{dH}	0.99	-	T _j = +12 °C	COP _d	6.45	-
T _j = + 7 °C	P _{dH}	4.2	kW	T _j = bivalent temperature	COP _d	3.32	-
Degradation co-efficient (**)	C _{dH}	0.99	-	T _j = operation limit temperature (***)	COP _d	3.32	-
T _j = +12 °C	P _{dH}	2.0	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{dH}	0.95	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{dH}	6.6	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{dH}	6.6	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			
Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	1757	kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	167	%	
Daily electricity consumption	Q _{elec}	2.910	kWh				
Annual electricity consumption	AEC	641	kWh				

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 (**) If C_{dH} is not determined by measurement then the default degradation coefficient is C_{dH} = 0,9.

 (***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	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	6.0	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.3	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.33	-
Tj = + 2 °C	Pdh	3.2	kW	Tj = + 7 °C	COPd	4.48	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.34	-
Tj = + 7 °C	Pdh	2.6	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.90	-
Tj = +12 °C	Pdh	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.96	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.3	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.1	kW	Rated heat output (*)	Psup	0.9	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3638	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	148	%	
Daily electricity consumption	Q _{elec}	3.280	kWh				
Annual electricity consumption	AEC	723	kWh				

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 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	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	6.6	kW	Seasonal space heating energy efficiency	η_s	187	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.8	kW	Tj = - 7 °C	COPd	3.02	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.56	-
Tj = + 2 °C	Pdh	3.6	kW	Tj = + 7 °C	COPd	6.36	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.39	-
Tj = + 7 °C	Pdh	2.8	kW	Tj = bivalent temperature	COPd	3.02	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.66	-
Tj = +12 °C	Pdh	2.6	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.95	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.8	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.5	kW	Rated heat output (*)	Psup	1.1	kW
Bivalent temperature	Tbiv	-7	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-10	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors	-	2070	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2876	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	148	%
Declared load profile	L						
Daily electricity consumption	Q _{elec}	3.280	kWh				
Annual electricity consumption	AEC	723	kWh				

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 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.
 (***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	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	4.1	kW	Seasonal space heating energy efficiency	η_s	109	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	2.8	kW	Tj = - 7 °C	COPd	2.41	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.29	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	4.07	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	5.76	-
Tj = + 7 °C	Pdh	2.2	kW	Tj = bivalent temperature	COPd	1.36	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	1.36	-
Tj = +12 °C	Pdh	1.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.96	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	3.9	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	3.9	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	4.1	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.015	kW	Thermostat-off mode	P _{TO}	0.015	kW
Thermostat-off mode	P _{TO}	0.015	kW	Standby mode	P _{SB}	0.015	kW
Standby mode	P _{SB}	0.015	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	3617	kWh				

For heat pump combination heater:				Declared load profile			
Declared load profile	L			Water heating energy efficiency	η_{wh}	130	%
Daily electricity consumption	Q _{elec}	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

Contact details

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

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

Atsushi EDAYOSHI

The signature is signed in the average climate / medium-temperature section.

Manager, Quality Assurance Department

UNITED KINGDOM

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· Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	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	4.5	kW	Seasonal space heating energy efficiency	η_s	148	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	3.2	kW	Tj = - 7 °C	COPd	3.43	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = + 2 °C	COPd	4.29	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	5.00	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.90	-
Tj = + 7 °C	Pdh	2.3	kW	Tj = bivalent temperature	COPd	2.06	-
Degradation co-efficient (**)	Cdh	0.97	-	Tj = operation limit temperature (***)	COPd	2.06	-
Tj = +12 °C	Pdh	2.0	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.95	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	4.3	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.3	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	4.5	kW
Bivalent temperature	Tbiv	-20	°C	Type of energy input	Electrical		
Reference design conditions for space heating	Tdesignh	-22	°C	Power consumption in modes other than active mode			
Power consumption in modes other than active mode				Off mode			
Off mode	P _{OFF}	0.015	kW	Thermostat-off mode	P _{TO}	0.015	kW
Thermostat-off mode	P _{TO}	0.015	kW	Standby mode	P _{SB}	0.015	kW
Standby mode	P _{SB}	0.015	kW	Crankcase heater mode	P _{CK}	0.000	kW
Crankcase heater mode	P _{CK}	0.000	kW	Other items			

Capacity control	variable			Rated air flow rate, outdoors	-	2070	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2943	kWh				

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	130	%
Daily electricity consumption	Q _{elec}	3.730	kWh				
Annual electricity consumption	AEC	821	kWh				

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature Tj is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	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	6.0	kW	Seasonal space heating energy efficiency	η_s	142	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _d _h	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _d _h	-	-	T _j = + 2 °C	COP _d	1.87	-
T _j = + 2 °C	P _d _h	6.0	kW	T _j = + 7 °C	COP _d	2.89	-
Degradation co-efficient (**)	C _d _h	1.00	-	T _j = +12 °C	COP _d	5.01	-
T _j = + 7 °C	P _d _h	3.9	kW	T _j = bivalent temperature	COP _d	1.87	-
Degradation co-efficient (**)	C _d _h	0.99	-	T _j = operation limit temperature (***)	COP _d	1.87	-
T _j = +12 °C	P _d _h	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _d _h	0.96	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _d _h	6.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _d _h	6.0	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C				
Power consumption in modes other than active mode							
Off mode	P _{OFF}	0.015	kW				
Thermostat-off mode	P _{TO}	0.015	kW				
Standby mode	P _{SB}	0.015	kW				
Crankcase heater mode	P _{CK}	0.000	kW				

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	2218	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	173	%	
Daily electricity consumption	Q _{elec}	2.820	kWh				
Annual electricity consumption	AEC	621	kWh				

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

(***) If the declared TOL is lower than the T designh of the considered climate then the outdoor dry bulb temperature T_j is equal to T designh.

PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	SUZ-SWM60VA
	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	6.6	kW	Seasonal space heating energy efficiency	η_s	198	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{d,h}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	-	-	T _j = + 2 °C	COP _d	3.32	-
T _j = + 2 °C	P _{d,h}	6.6	kW	T _j = + 7 °C	COP _d	4.12	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = +12 °C	COP _d	6.45	-
T _j = + 7 °C	P _{d,h}	4.2	kW	T _j = bivalent temperature	COP _d	3.32	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = operation limit temperature (***)	COP _d	3.32	-
T _j = +12 °C	P _{d,h}	2.0	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.95	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	6.6	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	6.6	kW	Rated heat output (*)	P _{sup}	0.0	kW
Bivalent temperature	T _{biv}	2	°C	Type of energy input	Electrical		
Reference design conditions for space heating	T _{designh}	2	°C	Power consumption in modes other than active mode			
Off mode				P _{OFF}			
Thermostat-off mode				P _{TO}			
Standby mode				P _{SB}			
Crankcase heater mode				P _{CK}			

Other items				Rated air flow rate, outdoors			
Capacity control	variable			-	2070	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	41 / 60	dBA				
Annual energy consumption	Q _{HE}	1757	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	173	%	
Daily electricity consumption	Q _{elec}	2.820	kWh				
Annual electricity consumption	AEC	621	kWh				

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(**) If C_{d,h} is not determined by measurement then the default degradation coefficient is C_{d,h} = 0,9.

(***) If the declared TOL is lower than the T_{designh} of the considered climate then the outdoor dry bulb temperature T_j is equal to T_{designh}.