



# ENERG

енергия · ενεργεια

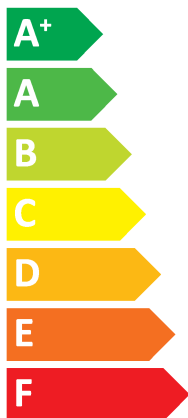


Indoor unit  
Outdoor unit

ERST20F-YM9E  
PUZ-SWM100YAA



**A<sup>++</sup>**



**A<sup>+</sup>**

Two icons showing sound power levels. The top icon shows a speaker inside a house with the text **41** dB. The bottom icon shows a speaker outside a house with the text **58** dB.



A legend for power consumption with three colored squares: dark blue, medium blue, and light blue. Next to each square is the text **10** kW.

1. SPACE HEATER

		1	Outdoor unit	PUZ-SWM100YAA	
		2	Indoor unit	ERST20F-YM9E	
For medium-temperature application	3	Medium-temperature application		✓	
	6	Seasonal space heating energy efficiency class		A++	
	8	Rated heat output under average climate conditions	kW	10	
	11	Seasonal space heating energy efficiency under average climate conditions	%	134	
	9	For space heating, annual energy consumption under average climate conditions	kWh	6042	
	13	Sound power level L <sub>WA</sub> indoor	dB	41	
	15	Rated heat output under colder climate conditions	kW	10	
	16	Rated heat output under warmer climate conditions	kW	10	
	21	Seasonal space heating energy efficiency under colder climate conditions	%	110	
	22	Seasonal space heating energy efficiency under warmer climate conditions	%	159	
	17	For space heating, annual energy consumption under colder climate conditions	kWh	8747	
	18	For space heating, annual energy consumption under warmer climate conditions	kWh	3292	
	25	Sound power level L <sub>WA</sub> outdoor	dB	58	
	For low-temperature application	4	Low-temperature application		✓
		6	Seasonal space heating energy efficiency class		A+++
8		Rated heat output under average climate conditions	kW	10	
11		Seasonal space heating energy efficiency under average climate conditions	%	180	
9		For space heating, annual energy consumption under average climate conditions	kWh	4505	
13		Sound power level L <sub>WA</sub> indoor	dB	41	
15		Rated heat output under colder climate conditions	kW	10	
16		Rated heat output under warmer climate conditions	kW	10	
21		Seasonal space heating energy efficiency under colder climate conditions	%	148	
22		Seasonal space heating energy efficiency under warmer climate conditions	%	229	
17		For space heating, annual energy consumption under colder climate conditions	kWh	6526	
18	For space heating, annual energy consumption under warmer climate conditions	kWh	2305		
25	Sound power level L <sub>WA</sub> outdoor	dB	58		

2. COMBINATION HEATER

		1	Outdoor unit	PUZ-SWM100YAA	
		2	Indoor unit	ERST20F-YM9E	
For medium-temperature application	3	Medium-temperature application		✓	
	5	Declared load profile		L	
	6	Seasonal space heating energy efficiency class		A++	
	7	Water heating energy efficiency class		A+	
	8	Rated heat output under average climate conditions	kW	10	
	9	For space heating, annual energy consumption under average climate conditions	kWh	6042	
	10	For water heating, annual electricity consumption under average climate conditions	kWh	796	
	11	Seasonal space heating energy efficiency under average climate conditions	%	134	
	12	Water heating energy efficiency under average climate conditions	%	137	
	13	Sound power level L <sub>WA</sub> indoor	dB	41	
	14	Work only during off-peak hours		-	
	15	Rated heat output under colder climate conditions	kW	10	
	16	Rated heat output under warmer climate conditions	kW	10	
	17	For space heating, annual energy consumption under colder climate conditions	kWh	8747	
	18	For space heating, annual energy consumption under warmer climate conditions	kWh	3292	
	19	For water heating, annual energy consumption under colder climate conditions	kWh	945	
	20	For water heating, annual energy consumption under warmer climate conditions	kWh	696	
	21	Seasonal space heating energy efficiency under colder climate conditions	%	110	
	22	Seasonal space heating energy efficiency under warmer climate conditions	%	159	
	23	Water heating energy efficiency under colder climate conditions	%	115	
	24	Water heating energy efficiency under warmer climate conditions	%	158	
	25	Sound power level L <sub>WA</sub> outdoor	dB	58	
	For low-temperature application	4	Low-temperature application		✓
		5	Declared load profile		L
		6	Seasonal space heating energy efficiency class		A+++
7		Water heating energy efficiency class		A+	
8		Rated heat output under average climate conditions	kW	10	
9		For space heating, annual energy consumption under average climate conditions	kWh	4505	
10		For water heating, annual electricity consumption under average climate conditions	kWh	796	
11		Seasonal space heating energy efficiency under average climate conditions	%	180	
12		Water heating energy efficiency under average climate conditions	%	137	
13		Sound power level L <sub>WA</sub> indoor	dB	41	
14		Work only during off-peak hours		-	
15		Rated heat output under colder climate conditions	kW	10	
16		Rated heat output under warmer climate conditions	kW	10	
17		For space heating, annual energy consumption under colder climate conditions	kWh	6526	
18		For space heating, annual energy consumption under warmer climate conditions	kWh	2305	
19		For water heating, annual energy consumption under colder climate conditions	kWh	945	
20		For water heating, annual energy consumption under warmer climate conditions	kWh	696	
21		Seasonal space heating energy efficiency under colder climate conditions	%	148	
22		Seasonal space heating energy efficiency under warmer climate conditions	%	229	
23		Water heating energy efficiency under colder climate conditions	%	115	
24		Water heating energy efficiency under warmer climate conditions	%	158	
25		Sound power level L <sub>WA</sub> outdoor	dB	58	

	English	Deutsch	Français	Italiano	Español
	Nederlands suomi	Svenska Čeština	Dansk Български	Português Polski	Ελληνικά -
1	Outdoor unit buitenuit Ulkoyksikkö	Außengerät Utomhusenhet	unité extérieure Udendørs enhed	unità esterna unidade exterior	unidad exterior Εξωτερική μονάδα
2	Indoor unit binnenunit Sisäyksikkö	Innengerät Inomhusenhet	unité intérieure Indendørs enhed	unità interna unidade interior	unidad interior Εσωτερική μονάδα
3	Medium-temperature application middentemperatuur-toepassing keskilämpötilan sovellus	Mitteltemperaturanwendung mediumtemperaturapplikation středněteplotní aplikace	l'application à moyenne température middeltemperaturavendelsen 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 nizkoteplotní aplikace	l'application à basse température lavtemperaturavendelsen 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 Обявен товаров профил	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 seizoengebonden energie-efficiëntieklasse voor ruimteverwarming tilalämmityksen kausittainen energiatehokkuusluokka	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz säsongrelaterade energieffektivitetsklass 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 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 подгръване 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) znaniowa 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 sähkökulutus(keskimääräisissä ilmasto-olosuhteissa)	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen För vattenuppvärmning, årlig elförbrukning(vid genomsnittliga klimatförhållanden) pro ohřevu 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 подгръване 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 seizoengebonden 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 Energieeffektivitet ved 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) energieeffektiviteten ved vandopvarmning(under gennemsnitlige klimaforhold) енергийната ефективност при подгръване 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 <sub>WA</sub> indoor het geluidsvermogensniveau L <sub>WA</sub> binnen äänitehotaso L <sub>WA</sub> sisällä	der Schalleistungspegel L <sub>WA</sub> in Gebäuden Ljudeffektnivå L <sub>WA</sub> i inomhus hladina akustického výkonu L <sub>WA</sub> ve vnitřním prostoru	le niveau de puissance acoustique L <sub>WA</sub> à l'intérieur lydeeffektniveauet L <sub>WA</sub> i inde ниво на звуковата мощност L <sub>WA</sub> на закрито	il livello di potenza sonora L <sub>WA</sub> all'interno O nível de potência sonora L <sub>WA</sub> no interior poziom mocy akustycznej L <sub>WA</sub> w pomieszczeniu	el nivel de potencia acústica L <sub>WA</sub> en interiores η στάθμη ηχητικής ισχύος L <sub>WA</sub> εσωτερικού χώρου
14	Work only during off-peak hours werken uitsluitend in de daluren toimimaan ainoastaan kulutushuippujen ulkopuolella	drivas uteslutande under perioder med låg belastning provouz pouze mimo špičku	fonctionner qu'en heures creuses fungere uden for spidsbelastningsperioder работи само в часовете извън върховото натоварване	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	la potenza termica nominale, in condizioni climatiche più fredde A potência calorífica nominal em condições climáticas mais frias znaniowa 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	la potenza termica nominale, in condizioni climatiche più calde A potência calorífica nominal em condições climáticas mais quentes znaniowa 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 sähkökulutus kylmissä ilmasto-olosuhteissa	für die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhältnissen För vattenuppvärmning, årlig elförbrukning under kallare klimatförhållanden pro ohřevu 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 подгръване 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 sähkökulutus lämpimissä ilmasto-olosuhteissa	für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen För vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden pro ohřevu 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 подгръване 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 seizoengebonden 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 seizoengebonden 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 Energieeffektivitet ved 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 energieeffektiviteten ved vandopvarmning under koldere klimaforhold енергийната ефективност при подгръване на вода при по-студени климатични условия	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde a eficiência 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 Energieeffektivitet ved 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 energieeffektiviteten ved vandopvarmning under varmere klimaforhold енергийната ефективност при подгръване на вода при по-топли климатични условия	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde a eficiência 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 <sub>WA</sub> outdoor het geluidsvermogensniveau L <sub>WA</sub> buiten äänitehotaso L <sub>WA</sub> ulkona	der Schalleistungspegel L <sub>WA</sub> im Freien Ljudeffektnivå L <sub>WA</sub> i utomhus hladina akustického výkonu L <sub>WA</sub> ve venkovním prostoru	le niveau de puissance acoustique L <sub>WA</sub> à l'extérieur lydeeffektniveau L <sub>WA</sub> i ude ниво на звуковата мощност L <sub>WA</sub> на открито	il livello di potenza sonora L <sub>WA</sub> all'esterno O nível de potência sonora L <sub>WA</sub> no exterior poziom mocy akustycznej L <sub>WA</sub> na zewnątrz	el nivel de potencia acústica L <sub>WA</sub> en exteriores η στάθμη ηχητικής ισχύος L <sub>WA</sub> εξωτερικού χώρου

# PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM100YAA
	Indoor unit:	ERST20F-YM9E
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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	8.8	kW
Degradation co-efficient(**)	C <sub>dh</sub>	1.00	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	5.4	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.99	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	4.8	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.98	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	2.9	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.96	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8.8	kW
T <sub>j</sub> = operation limit temperature(***)	P <sub>dh</sub>	8.5	kW
Bivalent temperature	T <sub>biv</sub>	-7	°C
Reference design conditions for space heating	T <sub>designh</sub>	-10	°C
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0.022	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW
Standby mode	P <sub>SB</sub>	0.022	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	134	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	COP <sub>d</sub>	2.15	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	3.35	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	4.39	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	5.99	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.15	
T <sub>j</sub> = operation limit temperature(***)	COP <sub>d</sub>	1.70	
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P <sub>sup</sub>	1.5	kW
Type of energy input		Electrical	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dB
Annual energy consumption	Q <sub>HE</sub>	6042	kWh

Rated air flow rate, outdoors		2640	m <sup>3</sup> /h
-------------------------------	--	------	-------------------

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	3.620	kWh
Annual electricity consumption	AEC	796	kWh

Water heating energy efficiency	η <sub>wh</sub>	137	%
---------------------------------	-----------------	-----	---

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY ANON İŞTİRLİK VE İNŞAAT ŞİRKETİ  
 Yabancı Satış Ofisi, Kocaeli Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusemre - Manisa

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



Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

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

# PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM100YAA
	Indoor unit:	ERST20F-YM9E
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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	8.8	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.99	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	5.4	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.98	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	5.2	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.98	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	3.2	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.96	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8.8	kW
T <sub>j</sub> = operation limit temperature(***)	P <sub>dh</sub>	9.0	kW
Bivalent temperature	T <sub>biv</sub>	-7	°C
Reference design conditions for space heating	T <sub>designh</sub>	-10	°C
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0.022	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW
Standby mode	P <sub>SB</sub>	0.022	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	180	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	COP <sub>d</sub>	3.05	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	4.61	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	5.70	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	6.61	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3.05	
T <sub>j</sub> = operation limit temperature(***)	COP <sub>d</sub>	2.40	
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P <sub>sup</sub>	1.0	kW
Type of energy input		Electrical	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dB
Annual energy consumption	Q <sub>HE</sub>	4505	kWh

Rated air flow rate, outdoors		2640	m <sup>3</sup> /h
-------------------------------	--	------	-------------------

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	3.620	kWh
Annual electricity consumption	AEC	796	kWh

Water heating energy efficiency	η <sub>wh</sub>	137	%
---------------------------------	-----------------	-----	---

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖRKÜYÜSÜ Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa

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

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

Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

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

# PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM100YAA
	Indoor unit:	ERST20F-YM9E
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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	6.1	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.99	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	3.7	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.98	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	3.8	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.97	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	4.4	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.97	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	7.4	kW
T <sub>j</sub> = operation limit temperature(***)	P <sub>dh</sub>	6.0	kW
T <sub>j</sub> = -15°C (if TOL < -20°C)	P <sub>dh</sub>	7.0	kW
Bivalent temperature	T <sub>biv</sub>	-12	°C
Reference design conditions for space heating	T <sub>designh</sub>	-22	°C
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0.022	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW
Standby mode	P <sub>SB</sub>	0.022	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	110	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	COP <sub>d</sub>	2.52	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	3.48	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	4.55	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	6.80	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	1.52	
T <sub>j</sub> = operation limit temperature(***)	COP <sub>d</sub>	1.40	
T <sub>j</sub> = -15°C (if TOL < -20°C)	COP <sub>d</sub>	1.41	
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P <sub>sup</sub>	4.0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dB
Annual energy consumption	Q <sub>HE</sub>	8747	kWh

Rated air flow rate, outdoors	2640	m <sup>3</sup> /h
-------------------------------	------	-------------------

For heat pump combination heater:			
Declared load profile	L		
Daily electricity consumption	Q <sub>elec</sub>	4.290	kWh
Annual electricity consumption	AEC	945	kWh

Water heating energy efficiency	η <sub>wh</sub>	115	%
---------------------------------	-----------------	-----	---

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖKÜYÜ, YOSB Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manis

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

Kenichi SAITO  
Manager, Quality Assurance Department  
TURKEY

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

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

# PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM100YAA
	Indoor unit:	ERST20F-YM9E
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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	6.2	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.99	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	3.9	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.98	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	3.9	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.97	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	4.5	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.96	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	8.4	kW
T <sub>j</sub> = operation limit temperature(***)	P <sub>dh</sub>	6.0	kW
T <sub>j</sub> = -15°C (if TOL < -20°C)	P <sub>dh</sub>	8.2	kW
Bivalent temperature	T <sub>biv</sub>	-16	°C
Reference design conditions for space heating	T <sub>designh</sub>	-22	°C
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0.022	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW
Standby mode	P <sub>SB</sub>	0.022	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	148	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	COP <sub>d</sub>	3.80	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	4.18	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	5.30	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	7.45	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.02	
T <sub>j</sub> = operation limit temperature(***)	COP <sub>d</sub>	1.55	
T <sub>j</sub> = -15°C (if TOL < -20°C)	COP <sub>d</sub>	2.02	
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P <sub>sup</sub>	4.0	kW
Type of energy input		Electrical	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dB
Annual energy consumption	Q <sub>HE</sub>	6526	kWh
Rated air flow rate, outdoors			
		2640	m³/h

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	4.290	kWh
Annual electricity consumption	AEC	945	kWh
Water heating energy efficiency			
		η <sub>wh</sub>	115 %

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖKÜYÜSÜ Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa

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

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

Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

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

# PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM100YAA
	Indoor unit:	ERST20F-YM9E
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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	P <sub>dh</sub>	-	kW
Degradation co-efficient(**)	C <sub>dh</sub>	-	
T <sub>j</sub> = +2°C	P <sub>dh</sub>	10.0	kW
Degradation co-efficient(**)	C <sub>dh</sub>	1.00	
T <sub>j</sub> = +7°C	P <sub>dh</sub>	6.4	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.99	
T <sub>j</sub> = +12°C	P <sub>dh</sub>	4.2	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.97	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	10.0	kW
T <sub>j</sub> = operation limit temperature(***)	P <sub>dh</sub>	10.0	kW
Bivalent temperature	T <sub>biv</sub>	2	°C
Reference design conditions for space heating	T <sub>designh</sub>	2	°C
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0.022	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW
Standby mode	P <sub>SB</sub>	0.022	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	159	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = -7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = +2°C	COP <sub>d</sub>	2.00	
T <sub>j</sub> = +7°C	COP <sub>d</sub>	3.43	
T <sub>j</sub> = +12°C	COP <sub>d</sub>	5.41	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	2.00	
T <sub>j</sub> = operation limit temperature(***)	COP <sub>d</sub>	2.00	
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P <sub>sup</sub>	0.0	kW
Type of energy input		Electrical	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dB
Annual energy consumption	Q <sub>HE</sub>	3292	kWh

Rated air flow rate, outdoors		2640	m <sup>3</sup> /h
-------------------------------	--	------	-------------------

For heat pump combination heater:			
Declared load profile		L	
Daily electricity consumption	Q <sub>elec</sub>	3.160	kWh
Annual electricity consumption	AEC	696	kWh

Water heating energy efficiency	η <sub>wh</sub>	158	%
---------------------------------	-----------------	-----	---

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY ANONUS HİSİTİM VE İNŞAAT SAN. VE TİC. A.Ş. Yönetim Binası, Yönetim Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa

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

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

Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

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



# PRODUCT INFORMATION / TECHNICAL DOCUMENTATION

Model(s):	Outdoor unit:	PUZ-SWM100YAA
	Indoor unit:	ERST20F-YM9E
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
Rated heat output (*)	Prated	10.0	kW
Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7°C	P <sub>dh</sub>	-	kW
Degradation co-efficient(**)	C <sub>dh</sub>	-	
T <sub>j</sub> = + 2°C	P <sub>dh</sub>	10.0	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.99	
T <sub>j</sub> = + 7°C	P <sub>dh</sub>	6.4	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.98	
T <sub>j</sub> = + 12°C	P <sub>dh</sub>	4.4	kW
Degradation co-efficient(**)	C <sub>dh</sub>	0.96	
T <sub>j</sub> = bivalent temperature	P <sub>dh</sub>	10.0	kW
T <sub>j</sub> = operation limit temperature(***)	P <sub>dh</sub>	10.0	kW
Bivalent temperature	T <sub>biv</sub>	2	°C
Reference design conditions for space heating	T <sub>designh</sub>	2	°C
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0.022	kW
Thermostat-off mode	P <sub>TO</sub>	0.022	kW
Standby mode	P <sub>SB</sub>	0.022	kW
Crankcase heater mode	P <sub>CK</sub>	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	229	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20°C and outdoor temperature T <sub>j</sub>			
T <sub>j</sub> = - 7°C	COP <sub>d</sub>	-	
T <sub>j</sub> = + 2°C	COP <sub>d</sub>	3.40	
T <sub>j</sub> = + 7°C	COP <sub>d</sub>	5.33	
T <sub>j</sub> = + 12°C	COP <sub>d</sub>	6.97	
T <sub>j</sub> = bivalent temperature	COP <sub>d</sub>	3.40	
T <sub>j</sub> = operation limit temperature(***)	COP <sub>d</sub>	3.40	
Operation limit temperature	TOL	-25	°C
Heating water operating limit temperature	WTOL	70	°C
Supplementary heater			
Rated heat output(*)	P <sub>sup</sub>	0.0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L <sub>WA</sub>	41 / 58	dB
Annual energy consumption	Q <sub>HE</sub>	2305	kWh

Rated air flow rate, outdoors	2640	m <sup>3</sup> /h
-------------------------------	------	-------------------

For heat pump combination heater:			
Declared load profile	L		
Daily electricity consumption	Q <sub>elec</sub>	3.160	kWh
Annual electricity consumption	AEC	696	kWh

Water heating energy efficiency	η <sub>wh</sub>	158	%
---------------------------------	-----------------	-----	---

Contact details

MITSUBISHI ELECTRIC AIR CONDITIONING SYSTEMS MANUFACTURING TURKEY INC. SÖĞÜTÖKÜYÜ, YOSB Mah. Ahmet Nazif Zorlu Bulvarı No:19 Yunusre - Manisa

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

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

Kenichi SAITO  
 Manager, Quality Assurance Department  
 TURKEY

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