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Indoor unit E*PT17/20X-****D(W)
Outdoor unit PUZ-WM50VHA(-BS)



A++



A+



40 dB

61 dB



- 04 kW
- 05 kW
- 05 kW

2019

811/2013

BH79V003H60



1. SPACE HEATER

1	2	For medium-temperature application											For low-temperature application														
		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	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		
PUZ-WM50VHA(-BS)	EHPX-****D	✓	A++	5	129	3122	40	3	5	107	157	2777	1671	61	✓	A+++	5	183	2216	40	4	5	141	226	2880	1166	61
	ERPX-****D	✓	A++	5	133	3038	40	3	5	111	162	2682	1616	61	✓	A+++	5	190	2139	40	4	5	146	237	2785	1112	61
PUZ-WM60VAA(-BS)	EHPX-****D	✓	A++	6	142	3428	40	5	6	127	154	3801	2046	58	✓	A+++	6	190	2564	40	4	6	166	218	2570	1453	58
	ERPX-****D	✓	A++	6	145	3344	40	5	6	130	158	3697	1994	58	✓	A+++	6	197	2484	40	4	6	173	226	2469	1400	58
PUZ-WM85VAA(-BS)	EHPX-****D	✓	A++	9	139	4958	40	6	9	129	156	4546	2852	58	✓	A+++	9	193	3592	40	5	9	169	227	2814	1972	58
	ERPX-****D	✓	A++	9	141	4881	40	6	9	132	159	4448	2802	58	✓	A+++	9	197	3515	40	5	9	175	234	2718	1920	58
PUZ-WM85YAA(-BS)	EHPX-****D	✓	A++	9	138	4994	40	6	9	128	155	4582	2882	58	✓	A+++	9	190	3632	40	5	9	166	224	2862	1997	58
	ERPX-****D	✓	A++	9	141	4884	40	6	9	132	159	4451	2805	58	✓	A+++	9	197	3514	40	5	9	175	234	2720	1920	58
PUZ-WM112VAA(-BS)	EHPX-****D	✓	A++	10	134	6024	40	9	10	122	152	7243	3452	60	✓	A+++	10	191	4251	40	10	10	166	215	5771	2449	60
	ERPX-****D	✓	A++	10	136	5932	40	9	10	124	154	7161	3396	60	✓	A+++	10	195	4173	40	10	10	169	220	5667	2396	60
PUZ-WM112YAA(-BS)	EHPX-****D	✓	A++	10	133	6063	40	9	10	121	150	7293	3483	60	✓	A+++	10	189	4293	40	10	10	165	213	5805	2471	60
	ERPX-****D	✓	A++	10	136	5936	40	9	10	124	154	7147	3401	60	✓	A+++	10	195	4171	40	10	10	169	220	5666	2392	60

2. COMBINATION HEATER

1	2	For medium-temperature application																	For low-temperature application																										
		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 energy 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 energy 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	kWh	kWh	%	%	dB	kW	kWh	kWh	%	%	%	%	%	%	dB	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 energy 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	
PUZ-WM50VHA(-BS)	EHPX-****D	✓	L	A++	A+	5	3122	902	129	120	40	-	3	5	2777	1671	1065	805	107	157	101	135	61	✓	L	A+++	A+	5	2216	902	183	120	40	-	4	5	2880	1166	1065	805	141	226	101	135	61
	ERPT17X-****D	✓	L	A++	A+	5	3038	902	133	120	40	-	3	5	2682	1616	1065	805	111	162	101	135	61	✓	L	A+++	A+	5	2139	902	190	120	40	-	4	5	2785	1112	1065	805	146	237	101	135	61
	EHPX20X-****D(W)	✓	L	A++	A+	5	3122	803	129	135	40	-	3	5	2777	1671	934	709	107	157	116	154	61	✓	L	A+++	A+	5	2216	803	183	135	40	-	4	5	2880	1166	934	709	141	226	116	154	61
	ERPT20X-****D(W)	✓	L	A++	A+	5	3038	803	133	135	40	-	3	5	2682	1616	934	709	111	162	116	154	61	✓	L	A+++	A+	5	2139	803	190	135	40	-	4	5	2785	1112	934	709	146	237	116	154	61
PUZ-WM60VAA(-BS)	EHPX-****D	✓	L	A++	A+	6	3428	899	142	120	40	-	5	6	3801	2046	1073	803	127	154	101	135	58	✓	L	A+++	A+	6	2564	899	190	120	40	-	4	6	2570	1453	1073	803	166	218	101	135	58
	ERPT17X-****D	✓	L	A++	A+	6	3344	899	145	120	40	-	5	6	3697	1994	1073	803	130	158	101	135	58	✓	L	A+++	A+	6	2484	899	197	120	40	-	4	6	2469	1400	1073	803	173	226	101	135	58
	EHPX20X-****D(W)	✓	L	A++	A+	6	3428	749	142	145	40	-	5	6	3801	2046	927	679	127	154	116	161	58	✓	L	A+++	A+	6	2564	749	190	145	40	-	4	6	2570	1453	927	679	166	218	116	161	58
	ERPT20X-****D(W)	✓	L	A++	A+	6	3344	749	145	145	40	-	5	6	3697	1994	927	679	130	158	116	161	58	✓	L	A+++	A+	6	2484	749	197	145	40	-	4	6	2469	1400	927	679	173	226	116	161	58
PUZ-WM85VAA(-BS)	EHPX-****D	✓	L	A++	A+	9	4958	899	139	120	40	-	6	9	4546	2852	1073	803	129	156	101	135	58	✓	L	A+++	A+	9	3592	899	193	120	40	-	5	9	2814	1972	1073	803	169	227	101	135	58
	ERPT17X-****D	✓	L	A++	A+	9	4881	899	141	120	40	-	6	9	4448	2802	1073	803	132	159	101	135	58	✓	L	A+++	A+	9	3515	899	197	120	40	-	5	9	2718	1920	1073	803	175	234	101	135	58
	EHPX20X-****D(W)	✓	L	A++	A+	9	4958	749	139	145	40	-	6	9	4546	2852	927	679	129	156	116	161	58	✓	L	A+++	A+	9	3592	749	193	145	40	-	5	9	2814	1972	927	679	169	227	116	161	58
	ERPT20X-****D(W)	✓	L	A++	A+	9	4881	749	141	145	40	-	6	9	4448	2802	927	679	132	159	116	161	58	✓	L	A+++	A+	9	3515	749	197	145	40	-	5	9	2718	1920	927	679	175	234	116	161	58
PUZ-WM85YAA(-BS)	EHPX-****D	✓	XL	A++	A	9	4958	1451	139	120	40	-	6	9	4546	2852	1808	1294	129	156	96	135	58	✓	XL	A+++	A	9	3592	1451	193	120	40	-	5	9	2814	1972	1808	1294	169	227	96	135	58
	ERPT17X-****D	✓	L	A++	A+	9	4994	899	138	120	40	-	6	9	4582	2882	1073	803	128	155	101	135	58	✓	L	A+++	A+	9	3632	899	190	120	40	-	5	9	2862	1997	1073	803	166	224	101	135	58
	ERPT17X-****D	✓	L	A++	A+	9	4884	899	141	120	40	-	6	9	4451	2805	1073	803	132	159	101	135	58	✓	L	A+++	A+	9	3514	899	197	120	40	-	5	9	2720	1920	1073	803	175	234	101	135	58
	EHPX20X-****D(W)	✓	L	A++	A+	9	4994	749	138	145	40	-	6	9	4582	2882	927	679	128	155	116	161	58	✓	L	A+++	A+	9	3632	749	190	145	40	-	5	9	2862	1997	927	679	166	224	116	161	58
PUZ-WM112VAA(-BS)	EHPX-****D	✓	XL	A++	A	9	4994	1451	138	120	40	-	6	9	4582	2882	1808	1294	128	155	96	135	58	✓	XL	A+++	A	9	3632	1451	190	120	40	-	5	9	2862	1997	1808	1294	166	224	96	135	

	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 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) 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 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 electricidade(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 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 _{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 нивото 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 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 electricidade 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 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 electricidade 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 подгръване 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 подгръване 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 нивото 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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-****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	5.0	kW	Seasonal space heating energy efficiency	η_s	129	%
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	4.4	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.23	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.67	-
Tj = + 7 °C	Pdh	1.7	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.97	-
Tj = +12 °C	Pdh	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.2	kW	Rated heat output (*)	Psup	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	3122	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	120	%	
Daily electricity consumption	Q _{elec}	4.102	kWh				
Annual electricity consumption	AEC	902	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-****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	5.0	kW	Seasonal space heating energy efficiency	η_s	183	%
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}	4.4	kW	T _j = - 7 °C	COP _d	3.17	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = + 2 °C	COP _d	4.47	-
T _j = + 2 °C	P _{d,h}	2.7	kW	T _j = + 7 °C	COP _d	6.55	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	8.57	-
T _j = + 7 °C	P _{d,h}	1.9	kW	T _j = bivalent temperature	COP _d	3.17	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	T _j = operation limit temperature (***)	COP _d	2.84	-
T _j = +12 °C	P _{d,h}	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.93	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	4.4	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	4.2	kW	Rated heat output (*)	P _{sup}	0.8	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2216	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	120	%	
Daily electricity consumption	Q _{elec}	4.102	kWh				
Annual electricity consumption	AEC	902	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

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

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(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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-****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	3.1	kW	Seasonal space heating energy efficiency	η_s	107	%
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	2.5	kW	Tj = - 7 °C	COPd	2.30	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.28	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	4.41	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.92	-
Tj = + 7 °C	Pdh	1.5	kW	Tj = bivalent temperature	COPd	1.93	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	1.8	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.94	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	2.5	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	2.5	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	3.1	kW
Bivalent temperature	Tbiv	-15	°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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2777	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	101	%	
Daily electricity consumption	Q _{elec}	4.842	kWh				
Annual electricity consumption	AEC	1065	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

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-****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	4.2	kW	Seasonal space heating energy efficiency	η_s	141	%
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}	2.7	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = + 2 °C	COP _d	4.05	-
T _j = + 2 °C	P _{d,h}	2.5	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	8.26	-
T _j = + 7 °C	P _{d,h}	1.6	kW	T _j = bivalent temperature	COP _d	2.27	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	T _j = operation limit temperature (***)	COP _d	2.27	-
T _j = +12 °C	P _{d,h}	1.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.94	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	4.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	4.0	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW	Rated heat output (*)	P _{sup}	4.2	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2880	kWh				

For heat pump combination heater:							
Declared load profile				L			
Daily electricity consumption	Q _{elec}	4.842	kWh	Water heating energy efficiency			
Annual electricity consumption	AEC	1065	kWh	η_{wh}	101	%	

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-****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	5.0	kW	Seasonal space heating energy efficiency	η_s	157	%
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	1.98	-
T _j = + 2 °C	P _{d,h}	5.0	kW	T _j = + 7 °C	COP _d	3.40	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = +12 °C	COP _d	5.81	-
T _j = + 7 °C	P _{d,h}	3.2	kW	T _j = bivalent temperature	COP _d	1.98	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = operation limit temperature (***)	COP _d	1.98	-
T _j = +12 °C	P _{d,h}	1.8	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}	5.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	5.0	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1671	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.657	kWh				
Annual electricity consumption	AEC	805	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT17X-****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	5.0	kW	Seasonal space heating energy efficiency	η_s	226	%
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	3.70	-
Tj = + 2 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.98	-
Tj = + 7 °C	Pdh	3.2	kW	Tj = bivalent temperature	COPd	3.70	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.70	-
Tj = +12 °C	Pdh	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1166	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.657	kWh				
Annual electricity consumption	AEC	805	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-****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	5.0	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	4.4	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.29	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.67	-
Tj = + 7 °C	Pdh	1.7	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.97	-
Tj = +12 °C	Pdh	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.2	kW	Rated heat output (*)	Psup	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	3038	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	120	%	
Daily electricity consumption	Q _{elec}	4.102	kWh				
Annual electricity consumption	AEC	902	kWh				

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 Manager, Quality Assurance Department
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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-****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	5.0	kW	Seasonal space heating energy efficiency	η_s	190	%
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	4.4	kW	Tj = - 7 °C	COPd	3.17	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.56	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	6.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.57	-
Tj = + 7 °C	Pdh	1.9	kW	Tj = bivalent temperature	COPd	3.17	-
Degradation co-efficient (**)	Cdh	0.95	-	Tj = operation limit temperature (***)	COPd	2.84	-
Tj = +12 °C	Pdh	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.93	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.2	kW	Rated heat output (*)	Psup	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2139	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	120	%	
Daily electricity consumption	Q _{elec}	4.102	kWh				
Annual electricity consumption	AEC	902	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-****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	3.1	kW	Seasonal space heating energy efficiency	η_s	111	%
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}	2.5	kW	T _j = - 7 °C	COP _d	2.36	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = + 2 °C	COP _d	3.40	-
T _j = + 2 °C	P _{d,h}	2.5	kW	T _j = + 7 °C	COP _d	4.41	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	6.92	-
T _j = + 7 °C	P _{d,h}	1.5	kW	T _j = bivalent temperature	COP _d	1.93	-
Degradation co-efficient (**)	C _{d,h}	0.96	-	T _j = operation limit temperature (***)	COP _d	1.50	-
T _j = +12 °C	P _{d,h}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.94	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	2.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	2.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW	Rated heat output (*)	P _{sup}	3.1	kW
Bivalent temperature	T _{biv}	-15	°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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2682	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	101	%	
Daily electricity consumption	Q _{elec}	4.842	kWh				
Annual electricity consumption	AEC	1065	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-****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	4.2	kW	Seasonal space heating energy efficiency	η_s	146	%
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	2.7	kW	T _j = - 7 °C	COP _d	3.16	-
Degradation co-efficient (**)	C _d h	0.98	-	T _j = + 2 °C	COP _d	4.20	-
T _j = + 2 °C	P _d h	2.5	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _d h	0.98	-	T _j = +12 °C	COP _d	8.26	-
T _j = + 7 °C	P _d h	1.6	kW	T _j = bivalent temperature	COP _d	2.27	-
Degradation co-efficient (**)	C _d h	0.95	-	T _j = operation limit temperature (***)	COP _d	2.27	-
T _j = +12 °C	P _d h	1.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _d h	0.94	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _d h	4.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _d h	4.0	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _d h	-	kW	Rated heat output (*)	P _{sup}	4.2	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2785	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	101	%	
Daily electricity consumption	Q _{elec}	4.842	kWh				
Annual electricity consumption	AEC	1065	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_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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-****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	5.0	kW	Seasonal space heating energy efficiency	η_s	162	%
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	1.98	-
T _j = + 2 °C	P _d _h	5.0	kW	T _j = + 7 °C	COP _d	3.35	-
Degradation co-efficient (**)	C _d _h	0.99	-	T _j = +12 °C	COP _d	5.81	-
T _j = + 7 °C	P _d _h	3.2	kW	T _j = bivalent temperature	COP _d	1.98	-
Degradation co-efficient (**)	C _d _h	0.98	-	T _j = operation limit temperature (***)	COP _d	1.98	-
T _j = +12 °C	P _d _h	1.8	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	5.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _d _h	5.0	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1616	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.657	kWh				
Annual electricity consumption	AEC	805	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT17X-****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	5.0	kW	Seasonal space heating energy efficiency	η_s	237	%
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	3.70	-
Tj = + 2 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	4.96	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	8.00	-
Tj = + 7 °C	Pdh	3.2	kW	Tj = bivalent temperature	COPd	3.70	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.70	-
Tj = +12 °C	Pdh	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1112	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.657	kWh				
Annual electricity consumption	AEC	805	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-****D(W)
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.

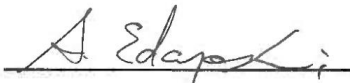
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	129	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	4.4	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.23	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.67	-
Tj = + 7 °C	Pdh	1.7	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.97	-
Tj = +12 °C	Pdh	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.2	kW	Rated heat output (*)	Psup	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	3122	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.650	kWh				
Annual electricity consumption	AEC	803	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-****D(W)
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	5.0	kW	Seasonal space heating energy efficiency	η_s	183	%
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}	4.4	kW	T _j = - 7 °C	COP _d	3.17	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = + 2 °C	COP _d	4.47	-
T _j = + 2 °C	P _{d,h}	2.7	kW	T _j = + 7 °C	COP _d	6.55	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	8.57	-
T _j = + 7 °C	P _{d,h}	1.9	kW	T _j = bivalent temperature	COP _d	3.17	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	T _j = operation limit temperature (***)	COP _d	2.84	-
T _j = +12 °C	P _{d,h}	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.93	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	4.4	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	4.2	kW	Rated heat output (*)	P _{sup}	0.8	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2216	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.650	kWh				
Annual electricity consumption	AEC	803	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 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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-****D(W)
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	4.2	kW	Seasonal space heating energy efficiency	η_s	141	%
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}	2.7	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = + 2 °C	COP _d	4.05	-
T _j = + 2 °C	P _{d,h}	2.5	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	8.26	-
T _j = + 7 °C	P _{d,h}	1.6	kW	T _j = bivalent temperature	COP _d	2.27	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	T _j = operation limit temperature (***)	COP _d	2.27	-
T _j = +12 °C	P _{d,h}	1.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.94	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	4.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	4.0	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW	Rated heat output (*)	P _{sup}	4.2	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2880	kWh				

For heat pump combination heater:							
Declared load profile				Water heating energy efficiency			
L				η_{wh}	116	%	
Daily electricity consumption	Q _{elec}	4.247	kWh				
Annual electricity consumption	AEC	934	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-****D(W)
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	5.0	kW	Seasonal space heating energy efficiency	η_s	226	%
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	3.70	-
Tj = + 2 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.98	-
Tj = + 7 °C	Pdh	3.2	kW	Tj = bivalent temperature	COPd	3.70	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.70	-
Tj = +12 °C	Pdh	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1166	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	154	%	
Daily electricity consumption	Q _{elec}	3.222	kWh				
Annual electricity consumption	AEC	709	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-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	5.0	kW	Seasonal space heating energy efficiency	η_s	129	%
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	4.4	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.23	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.67	-
Tj = + 7 °C	Pdh	1.7	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.97	-
Tj = +12 °C	Pdh	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.2	kW	Rated heat output (*)	Psup	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	3122	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.650	kWh				
Annual electricity consumption	AEC	803	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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 · Details and precautions on recycling and/or disposal at end-of-life can be found in the installation and or operation manuals.
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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-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		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	183	%
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	4.4	kW	Tj = - 7 °C	COPd	3.17	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	4.47	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	6.55	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.57	-
Tj = + 7 °C	Pdh	1.9	kW	Tj = bivalent temperature	COPd	3.17	-
Degradation co-efficient (**)	Cdh	0.95	-	Tj = operation limit temperature (***)	COPd	2.84	-
Tj = +12 °C	Pdh	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.93	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.2	kW	Rated heat output (*)	Psup	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2216	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.650	kWh				
Annual electricity consumption	AEC	803	kWh				

Contact details

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Manager, Quality Assurance Department

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-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	3.1	kW	Seasonal space heating energy efficiency	η_s	107	%
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	2.5	kW	Tj = - 7 °C	COPd	2.30	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.28	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	4.41	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.92	-
Tj = + 7 °C	Pdh	1.5	kW	Tj = bivalent temperature	COPd	1.93	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	1.8	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.94	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	2.5	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	2.5	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	3.1	kW
Bivalent temperature	Tbiv	-15	°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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2777	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	116	%	
Daily electricity consumption	Q _{elec}	4.247	kWh				
Annual electricity consumption	AEC	934	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-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	4.2	kW	Seasonal space heating energy efficiency	η_s	141	%
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}	2.7	kW	T _j = - 7 °C	COP _d	3.10	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = + 2 °C	COP _d	4.05	-
T _j = + 2 °C	P _{d,h}	2.5	kW	T _j = + 7 °C	COP _d	5.71	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	8.26	-
T _j = + 7 °C	P _{d,h}	1.6	kW	T _j = bivalent temperature	COP _d	2.27	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	T _j = operation limit temperature (***)	COP _d	2.27	-
T _j = +12 °C	P _{d,h}	1.9	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.94	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	4.0	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	4.0	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW	Rated heat output (*)	P _{sup}	4.2	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			
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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2880	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	116	%	
Daily electricity consumption	Q _{elec}	4.247	kWh				
Annual electricity consumption	AEC	934	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_{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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-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	5.0	kW	Seasonal space heating energy efficiency	η_s	157	%
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	1.98	-
Tj = + 2 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	3.40	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	5.81	-
Tj = + 7 °C	Pdh	3.2	kW	Tj = bivalent temperature	COPd	1.98	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.98	-
Tj = +12 °C	Pdh	1.8	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	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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	-	2140	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1671	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	154	%
Declared load profile	L						
Daily electricity consumption	Q _{elec}	3.222	kWh				
Annual electricity consumption	AEC	709	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	EHPT20X-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	5.0	kW	Seasonal space heating energy efficiency	η_s	226	%
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	3.70	-
Tj = + 2 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	5.10	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	7.98	-
Tj = + 7 °C	Pdh	3.2	kW	Tj = bivalent temperature	COPd	3.70	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.70	-
Tj = +12 °C	Pdh	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1166	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	154	%	
Daily electricity consumption	Q _{elec}	3.222	kWh				
Annual electricity consumption	AEC	709	kWh				

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 Manager, Quality Assurance Department
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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-****D(W)
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	5.0	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	4.4	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.29	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.67	-
Tj = + 7 °C	Pdh	1.7	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.97	-
Tj = +12 °C	Pdh	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.2	kW	Rated heat output (*)	Psup	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	3038	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.650	kWh				
Annual electricity consumption	AEC	803	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-****D(W)
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	5.0	kW	Seasonal space heating energy efficiency	η_s	190	%
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}	4.4	kW	T _j = - 7 °C	COP _d	3.17	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = + 2 °C	COP _d	4.56	-
T _j = + 2 °C	P _{d,h}	2.7	kW	T _j = + 7 °C	COP _d	6.55	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	8.57	-
T _j = + 7 °C	P _{d,h}	1.9	kW	T _j = bivalent temperature	COP _d	3.17	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	T _j = operation limit temperature (***)	COP _d	2.84	-
T _j = +12 °C	P _{d,h}	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.93	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	4.4	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	4.2	kW	Rated heat output (*)	P _{sup}	0.8	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2139	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.650	kWh				
Annual electricity consumption	AEC	803	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

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 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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-****D(W)
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	3.1	kW	Seasonal space heating energy efficiency	η_s	111	%
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	2.5	kW	Tj = - 7 °C	COPd	2.36	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.40	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	4.41	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.92	-
Tj = + 7 °C	Pdh	1.5	kW	Tj = bivalent temperature	COPd	1.93	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.50	-
Tj = +12 °C	Pdh	1.8	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.94	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	2.5	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	2.5	kW				
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW				
Bivalent temperature	Tbiv	-15	°C				
Reference design conditions for space heating	Tdesignh	-22	°C				

Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.015	kW	Rated heat output (*)	P _{sup}	3.1	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				Type of energy input			
Capacity control	variable			Electrical			

Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA	Rated air flow rate, outdoors	-	2140	m ³ /h
Annual energy consumption	Q _{HE}	2682	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	116	%	
Daily electricity consumption	Q _{elec}	4.247	kWh				
Annual electricity consumption	AEC	934	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-****D(W)
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	5.0	kW	Seasonal space heating energy efficiency	η_s	162	%
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	1.98	-
Tj = + 2 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	3.35	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	5.81	-
Tj = + 7 °C	Pdh	3.2	kW	Tj = bivalent temperature	COPd	1.98	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.98	-
Tj = +12 °C	Pdh	1.8	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	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1616	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	154	%	
Daily electricity consumption	Q _{elec}	3.222	kWh				
Annual electricity consumption	AEC	709	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-****D(W)
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	5.0	kW	Seasonal space heating energy efficiency	η_s	237	%
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	3.70	-
T _j = + 2 °C	P _{d,h}	5.0	kW	T _j = + 7 °C	COP _d	4.96	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = +12 °C	COP _d	8.00	-
T _j = + 7 °C	P _{d,h}	3.2	kW	T _j = bivalent temperature	COP _d	3.70	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = operation limit temperature (***)	COP _d	3.70	-
T _j = +12 °C	P _{d,h}	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.94	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	5.0	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	5.0	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1112	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	154	%	
Daily electricity consumption	Q _{elec}	3.222	kWh				
Annual electricity consumption	AEC	709	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-MD
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	5.0	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	4.4	kW	Tj = - 7 °C	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = + 2 °C	COPd	3.29	-
Tj = + 2 °C	Pdh	2.7	kW	Tj = + 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	6.67	-
Tj = + 7 °C	Pdh	1.7	kW	Tj = bivalent temperature	COPd	2.04	-
Degradation co-efficient (**)	Cdh	0.96	-	Tj = operation limit temperature (***)	COPd	1.97	-
Tj = +12 °C	Pdh	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	4.4	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	4.2	kW	Rated heat output (*)	Psup	0.8	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	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	3038	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	135	%	
Daily electricity consumption	Q _{elec}	3.650	kWh				
Annual electricity consumption	AEC	803	kWh				

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 Manager, Quality Assurance Department
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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-MD
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		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	190	%
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}	4.4	kW	T _j = - 7 °C	COP _d	3.17	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = + 2 °C	COP _d	4.56	-
T _j = + 2 °C	P _{d,h}	2.7	kW	T _j = + 7 °C	COP _d	6.55	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	8.57	-
T _j = + 7 °C	P _{d,h}	1.9	kW	T _j = bivalent temperature	COP _d	3.17	-
Degradation co-efficient (**)	C _{d,h}	0.95	-	T _j = operation limit temperature (***)	COP _d	2.84	-
T _j = +12 °C	P _{d,h}	1.8	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	C _{d,h}	0.93	-	Heating water operating limit temperature	WTOL	60	°C
T _j = bivalent temperature	P _{d,h}	4.4	kW	Supplementary heater			
T _j = operation limit temperature (***)	P _{d,h}	4.2	kW	Rated heat output (*)	P _{sup}	0.8	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			
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				Rated air flow rate, outdoors			
variable				-			
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA	2140			
Annual energy consumption	Q _{HE}	2139	kWh	m ³ /h			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	135	%
Daily electricity consumption	Q _{elec}	3.650	kWh				
Annual electricity consumption	AEC	803	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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				UNITED KINGDOM	

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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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-MD
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	3.1	kW	Seasonal space heating energy efficiency	η_s	111	%
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}	2.5	kW	T _j = - 7 °C	COP _d	2.36	-
Degradation co-efficient (**)	C _{d,h}	0.99	-	T _j = + 2 °C	COP _d	3.40	-
T _j = + 2 °C	P _{d,h}	2.5	kW	T _j = + 7 °C	COP _d	4.41	-
Degradation co-efficient (**)	C _{d,h}	0.98	-	T _j = +12 °C	COP _d	6.92	-
T _j = + 7 °C	P _{d,h}	1.5	kW	T _j = bivalent temperature	COP _d	1.93	-
Degradation co-efficient (**)	C _{d,h}	0.96	-	T _j = operation limit temperature (***)	COP _d	1.50	-
T _j = +12 °C	P _{d,h}	1.8	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Degradation co-efficient (**)	C _{d,h}	0.94	-	Operation limit temperature	TOL	-20	°C
T _j = bivalent temperature	P _{d,h}	2.5	kW	Heating water operating limit temperature	WTOL	60	°C
T _j = operation limit temperature (***)	P _{d,h}	2.5	kW	Supplementary heater			
T _j = - 15 °C (if TOL < - 20 °C)	P _{d,h}	-	kW	Rated heat output (*)	P _{sup}	3.1	kW
Bivalent temperature	T _{biv}	-15	°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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2682	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	116	%	
Daily electricity consumption	Q _{elec}	4.247	kWh				
Annual electricity consumption	AEC	934	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-MD
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	4.2	kW	Seasonal space heating energy efficiency	η_s	146	%
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	2.7	kW	Tj = - 7 °C	COPd	3.16	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = + 2 °C	COPd	4.20	-
Tj = + 2 °C	Pdh	2.5	kW	Tj = + 7 °C	COPd	5.71	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = +12 °C	COPd	8.26	-
Tj = + 7 °C	Pdh	1.6	kW	Tj = bivalent temperature	COPd	2.27	-
Degradation co-efficient (**)	Cdh	0.95	-	Tj = operation limit temperature (***)	COPd	2.27	-
Tj = +12 °C	Pdh	1.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	-
Degradation co-efficient (**)	Cdh	0.94	-	Operation limit temperature	TOL	-20	°C
Tj = bivalent temperature	Pdh	4.0	kW	Heating water operating limit temperature	WTOL	60	°C
Tj = operation limit temperature (***)	Pdh	4.0	kW	Supplementary heater			
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Rated heat output (*)	Psup	4.2	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			-	2140	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	2785	kWh				

For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	L			η_{wh}	116	%	
Daily electricity consumption	Q _{elec}	4.247	kWh				
Annual electricity consumption	AEC	934	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

· 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-WM50VHA(-BS)
	Indoor unit:	ERPT20X-MD
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	5.0	kW	Seasonal space heating energy efficiency	η_s	162	%
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	1.98	-
Tj = + 2 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	3.35	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	5.81	-
Tj = + 7 °C	Pdh	3.2	kW	Tj = bivalent temperature	COPd	1.98	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	1.98	-
Tj = +12 °C	Pdh	1.8	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	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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	-	2140	m ³ /h
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA				
Annual energy consumption	Q _{HE}	1616	kWh				

For heat pump combination heater:				Water heating energy efficiency	η_{wh}	154	%
Declared load profile	L						
Daily electricity consumption	Q _{elec}	3.222	kWh				
Annual electricity consumption	AEC	709	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:	PUZ-WM50VHA(-BS)
	Indoor unit:	ERPT20X-MD
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	5.0	kW	Seasonal space heating energy efficiency	η_s	237	%
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	3.70	-
Tj = + 2 °C	Pdh	5.0	kW	Tj = + 7 °C	COPd	4.96	-
Degradation co-efficient (**)	Cdh	0.99	-	Tj = +12 °C	COPd	8.00	-
Tj = + 7 °C	Pdh	3.2	kW	Tj = bivalent temperature	COPd	3.70	-
Degradation co-efficient (**)	Cdh	0.98	-	Tj = operation limit temperature (***)	COPd	3.70	-
Tj = +12 °C	Pdh	1.9	kW	Operation limit temperature	TOL	-20	°C
Degradation co-efficient (**)	Cdh	0.94	-	Heating water operating limit temperature	WTOL	60	°C
Tj = bivalent temperature	Pdh	5.0	kW	Supplementary heater			
Tj = operation limit temperature (***)	Pdh	5.0	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	Capacity control	variable	Rated air flow rate, outdoors	-	2140	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	40 / 61	dBA			
Annual energy consumption	Q _{HE}	1112	kWh			

For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η_{wh}	154	%
Daily electricity consumption	Q _{elec}	3.222	kWh				
Annual electricity consumption	AEC	709	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.