



ENERG

енергия · ενεργεια



Indoor unit
Outdoor unit

EHSC-**D
PUMY-P140VKM5(-BS)



55 °C

35 °C



A⁺

A⁺⁺



40 dB



69 dB

- 08
- **11**
- 10

kW

- 08
- **11**
- 11

kW



2019

811/2013

BH79V012H12

	English	Deutsch	Français	Italiano	Espanol
	Nederlands	Svenska	Dansk	Portugués	Ελληνικά
	suomi	Čeština	Български	Polski	-
1	Outdoor unit butenunit Ulkoyksäike	Außengerät Utomhusenhet	unité extérieure Udenårs enhed	unità esterna Udenårs enhed	unidad exterior Εξωτερική μονάδα
2	Indoor unit binnenunit Sisäyksäike	Innengerät Inomhusenhet	unité intérieure Indendørs enhed	unità interna unidade interior	unidad interior Εσωτερική μονάδα
3	Medium-temperature application middertemperatuur-toepassing keskilämpötilan sovellus	Mitteltemperaturanwendung mediumtemperaturapplikation	l'application à moyenne température middelttemperaturanvendelsen	le applicazioni a media temperatura a aplicação a média temperatura	la aplicación de media temperatura η εφαρμογή σε μέση θερμοκρασία
4	Low-temperature application lage-temperatuur-toepassing matalanlämpötilän sovellus	Niedertemperaturanwendung lågtemperaturapplikation	l'application à basse température lavtemperaturanvendelsen	le applicazioni a bassa temperatura a aplicação a baixa temperatura	la aplicación de baja temperatura η εφαρμογή σε χαμηλή θερμοκρασία
5	Seasonal space heating energy efficiency class de seizoengebonden energie-efficiëntieklasse voor ruimteverwarming	die Klasse für die jahreszeitbedingte Raumheizungs-Energieeffizienz säsongensbunden energi-effektivitetsklass vid rumsuppvärmning	la classe d'efficacité énergétique saisonnière pour le chauffage des locaux klassen for årsvirkningsgrad ved rumopvarmning	la classe di efficienza energetica stagionale del riscaldamento d'ambiente A classe de eficiência energética do aquecimento ambiente sazonal	la clase de eficiencia energética estacional de calefacción η τάξη ενεργειακής απόδοσης της εποχιακής θέρμανσης χώρου
6	Water heating energy efficiency class de energie-efficiëntieklasse voor waterverwarming vedenlämmityksen energiatehokkuusluokka	die Klasse für die Warmwasserbereitungs-Energieeffizienz energieeffektivitetsklass vid vattenuppvärmning	la classe d'efficacité énergétique pour le chauffage de l'eau klassen for årsvirkningsgrad ved vandopvarmning	la classe di efficienza energetica del riscaldamento dell'acqua A classe de eficiência energética do aquecimento de água	la clase de eficiencia energética del caudal de agua η τάξη ενεργειακής απόδοσης θέρμανσης νερού
7	Rated heat output under average climate conditions de nominale warmteafgifte(onder gemiddelde klimaatomstandigheden)	die Wärmenennleistung bei durchschnittlichen Klimaverhältnissen de nominale avgivna värmeeffekten(under genomsnittliga klimatförhållanden)	la puissance thermique nominale dans les conditions climatiques moyennes den nominale nytteeffekt(under genomsnittlige klimaforhold)	la potenza termica nominale(in condizioni climatiche medie) A potencia calorífica nominal(em condições climáticas médias)	la potencia calorífica nominal(en condiciones climáticas medias) η ονομαστική θερμική ισχύς(ούπο μέσης κλιματικής συνθήκες)
8	For space heating, annual energy consumption under average climate conditions voor ruimteverwarming, het jaarlijkse energieverbruik(onder gemiddelde klimaatomstandigheden)	für die Raumheizung, den jährlichen Energieverbrauch bei durchschnittlichen Klimaverhältnissen For rumsuppvärmning, årlig energiförbrukning(vid genomsnittliga klimatförhållanden)	pour le chauffage des locaux, la consommation annuelle d'énergie(dans les conditions climatiques moyennes) for rumopvarmning det årlige energiforbrug(under gennemsnitlige klimaforhold)	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)	para calentar espacios, el consumo anual de energía(en condiciones climáticas medias) για τη θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας(ούπο μέσης κλιματικής συνθήκες)
9	For water heating, annual electricity consumption under average climate conditions voor waterverwarming, het jaarlijkse elektriciteitsverbruik(onder gemiddelde klimaatomstandigheden)	für die Warmwasserbereitung, den jährlichen Stromverbrauch bei durchschnittlichen Klimaverhältnissen For vattenuppvärmning, årlig elförbrukning(vid genomsnittliga klimatförhållanden)	pour le chauffage de l'eau, la consommation annuelle d'électricité(dans les conditions climatiques moyennes) for vandopvarmning det årlige elforbrug(under gennemsnitlige klimaforhold)	per il riscaldamento dell'acqua, il consumo annuo di elettricità(in condizioni climatiche medie) para o aquecimento de água, o consumo anual de electricidade(em condições climáticas médias)	para calentar agua, el consumo anual de electricidad(en condiciones climáticas medias) για την θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας(ούπο μέσης κλιματικής συνθήκες)
10	Seasonal space heating energy efficiency under average climate conditions de seizoengebonden energie-efficiëntie voor ruimteverwarming(onder gemiddelde klimaatomstandigheden)	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen Säsongsmedelverkningsgrad for rumsuppvärmning(vid genomsnittliga klimatförhållanden)	l'efficacité énergétique saisonnière pour le chauffage des locaux(dans les conditions climatiques moyennes) årsvirkningsgraden ved rumopvarmning(under gennemsnitlige klimaforhold)	l'efficienza energetica stagionale di riscaldamento d'ambiente(in condizioni climatiche medie) A eficiência energética do aquecimento ambiente sazonal(em condições climáticas médias)	la eficiencia energética estacional de calefacción(en condiciones climáticas medias) η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου(ούπο μέσης κλιματικής συνθήκες)
11	Water heating energy efficiency under average climate conditions de energie-efficiëntie voor waterverwarming(onder gemiddelde klimaatomstandigheden)	die Warmwasserbereitungs-Energieeffizienz bei durchschnittlichen Klimaverhältnissen energieeffektivitetsgrad vid vattenuppvärmning(vid genomsnittliga klimatförhållanden)	l'efficacité énergétique pour le chauffage de l'eau(dans les conditions climatiques moyennes) energieeffektivitetsgrad ved vandopvarmning(under gennemsnitlige klimaforhold)	l'efficienza energetica di riscaldamento dell'acqua(in condizioni climatiche medie) a eficiência energética do aquecimento de água(em condições climáticas médias)	la eficiencia energética del caudal de agua(en condiciones climáticas medias) η ενεργειακή απόδοση θέρμανσης νερού(ούπο μέσης κλιματικής συνθήκες)
12	Sound power level L _{WA} indoor het geluidsvermogensniveau L _{WA} binnen äänitehoitolo L _{WA} sisällä	die Schalleistungspegel L _{WA} in Gebäuden Ljudeffektivitet L _{WA} i inomhus äänitehoitolo L _{WA} sisällä	le niveau de puissance acoustique L _{WA} à l'intérieur lydeeffektivitet L _{WA} i inde	il livello di potenza sonora L _{WA} all'interno O nível de potência sonora L _{WA} no interior	el nivel de potencia acústica L _{WA} en interiores η στάθμη ηχητικής ισχύος L _{WA} εσωτερικού χώρου
13	Work only during off-peak hours werken uitsluitend in de daluren toimimaan ainoastaan kuluustuntien ulkopuolella	das ausschließliche Betrieb des Kombiheizgerätes zu Schwachlastzeiten divas utsäslutend under perioder med låg belastning provoz pouze mimo špičku	fonctionner uniquement lors des heures de pico работы только в часы вне выхового обслуживания	funziona soltanto durante le ore morte pracować jedynie w godzinach poza szczytowym obciążeniem	funcionar solamente durante las horas de baja demanda Λειτουργία μόνο εκτός των ωρών αιχμής
14	Rated heat output under colder climate conditions de nominale warmteafgifte, onder koudere klimaatomstandigheden	die Wärmenennleistung bei kälteren Klimaverhältnissen Nominell avgivna värmeeffekt vid kallare klimatförhållanden	la puissance thermique nominale, dans les conditions climatiques plus froides den nominelle nytteeffekt under koldere klimaforhold	la potenza termica nominale, in condizioni climatiche più fredde A potencia calorífica nominal em condições climáticas mais frias	la potencia calorífica nominal en condiciones climáticas más frías η ονομαστική θερμική ισχύς υπό ψυχρότερες κλιματικές συνθήκες
15	Rated heat output under warmer climate conditions de nominale warmteafgifte, onder warmere klimaatomstandigheden	die Wärmenennleistung bei wärmeren Klimaverhältnissen Nominell avgivna värmeeffekt vid varmare klimatförhållanden	la puissance thermique nominale, dans les conditions climatiques plus chaudes den nominelle nytteeffekt under varmere klimaforhold	la potenza termica nominale, in condizioni climatiche più calde A potencia calorífica nominal em condições climáticas mais quentes	la potencia calorífica nominal en condiciones climáticas más calidas η ονομαστική θερμική ισχύς υπό θερμότερες κλιματικές συνθήκες
16	For space heating, annual energy consumption under colder climate conditions voor ruimteverwarming, het jaarlijkse energieverbruik onder koudere klimaatomstandigheden	für die Raumheizung, der jährliche Energieverbrauch bei kälteren Klimaverhältnissen For rumsuppvärmning, årlig energiförbrukning under kallare klimatförhållanden	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus froides for rumopvarmning det årlige energiforbrug under koldere klimaforhold	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	para calentar espacios, el consumo anual de energía en condiciones climáticas más frías για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό ψυχρότερες κλιματικές συνθήκες
17	For space heating, annual energy consumption under warmer climate conditions voor ruimteverwarming, het jaarlijkse energieverbruik onder warmere klimaatomstandigheden	für die Raumheizung, der jährliche Energieverbrauch bei wärmeren Klimaverhältnissen For rumsuppvärmning, årlig energiförbrukning under varmare klimatförhållanden	pour le chauffage des locaux, la consommation annuelle d'énergie, dans les conditions climatiques plus chaudes for rumopvarmning det årlige energiforbrug under varmere klimaforhold	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	para calentar espacios, el consumo anual de energía en condiciones climáticas más calidas για θέρμανση χώρου, η ετήσια κατανάλωση ενέργειας υπό θερμότερες κλιματικές συνθήκες
18	For water heating, annual energy consumption under colder climate conditions voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder koudere klimaatomstandigheden	für die Warmwasserbereitung, der jährliche Stromverbrauch bei kälteren Klimaverhältnissen For vattenuppvärmning, årlig elförbrukning under kallare klimatförhållanden	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	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde e più calde para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais frias	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
19	For water heating, annual energy consumption under warmer climate conditions voor waterverwarming, het jaarlijkse elektriciteitsverbruik onder warmere klimaatomstandigheden	für die Warmwasserbereitung, der jährliche Stromverbrauch bei wärmeren Klimaverhältnissen For vattenuppvärmning, årlig elförbrukning under varmare klimatförhållanden	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	per il riscaldamento dell'acqua, il consumo annuo di energia, in condizioni climatiche più fredde e più calde para o aquecimento de água, o consumo anual de electricidade em condições climáticas mais quentes	para calentar agua, el consumo anual de electricidad en condiciones climáticas más calidas για θέρμανση νερού, η ετήσια κατανάλωση ηλεκτρικής ενέργειας υπό θερμότερες κλιματικές συνθήκες
20	Seasonal space heating energy efficiency under colder climate conditions de seizoengebonden energie-efficiëntie voor ruimteverwarming onder koudere klimaatomstandigheden	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei kälteren Klimaverhältnissen Säsongsmedelverkningsgrad for rumsuppvärmning under kallare klimatförhållanden	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus froides årsvirkningsgraden ved rumopvarmning under koldere klimaforhold	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	la eficiencia energética estacional de calefacción en condiciones climáticas más frías η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό ψυχρότερες κλιματικές συνθήκες
21	Seasonal space heating energy efficiency under warmer climate conditions de seizoengebonden energie-efficiëntie voor ruimteverwarming onder warmere klimaatomstandigheden	die jahreszeitbedingte Raumheizungs-Energieeffizienz bei wärmeren Klimaverhältnissen Säsongsmedelverkningsgrad for rumsuppvärmning under varmare klimatförhållanden	l'efficacité énergétique saisonnière pour le chauffage des locaux, dans les conditions climatiques plus chaudes årsvirkningsgraden ved rumopvarmning under varmere klimaforhold	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	la eficiencia energética estacional de calefacción en condiciones climáticas más calidas η ενεργειακή απόδοση της εποχιακής θέρμανσης χώρου υπό θερμότερες κλιματικές συνθήκες
22	Water heating energy efficiency under colder climate conditions de energie-efficiëntie voor waterverwarming onder koudere klimaatomstandigheden	die Warmwasserbereitungs-Energieeffizienz bei kälteren Klimaverhältnissen energieeffektivitetsgrad vid vattenuppvärmning under kallare klimatförhållanden	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus froides energieeffektivitetsgrad ved vandopvarmning under koldere klimaforhold	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più fredde a eficiência energética do aquecimento de água em condições climáticas mais frias	la eficiencia energética de caudal de agua en condiciones climáticas más frías η ενεργειακή απόδοση της θέρμανσης νερού υπό ψυχρότερες κλιματικές συνθήκες
23	Water heating energy efficiency under warmer climate conditions de energie-efficiëntie voor waterverwarming onder warmere klimaatomstandigheden	die Warmwasserbereitungs-Energieeffizienz bei wärmeren Klimaverhältnissen energieeffektivitetsgrad vid vattenuppvärmning under varmare klimatförhållanden	l'efficacité énergétique pour le chauffage de l'eau, dans les conditions climatiques plus chaudes energieeffektivitetsgrad ved vandopvarmning under varmere klimaforhold	l'efficienza energetica di riscaldamento dell'acqua in condizioni climatiche più calde a eficiência energética do aquecimento de água em condições climáticas mais quentes	la eficiencia energética de caudal de agua en condiciones climáticas más calidas η ενεργειακή απόδοση της θέρμανσης νερού υπό θερμότερες κλιματικές συνθήκες
24	Sound power level L _{WA} outdoor het geluidsvermogensniveau L _{WA} buiten äänitehoitolo L _{WA} ulkona	die Schalleistungspegel L _{WA} im Freien Ljudeffektivitet L _{WA} i utomhus äänitehoitolo L _{WA} ulkona	le niveau de puissance acoustique L _{WA} à l'extérieur lydeeffektivitet L _{WA} i ude	il livello di potenza sonora L _{WA} all'esterno O nível de potência sonora L _{WA} no exterior	el nivel de potencia acústica L _{WA} en exteriores η στάθμη ηχητικής ισχύος L _{WA} εξωτερικού χώρου

Model(s):	Outdoor unit:	PUMY-P140VKM5
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.2	kW	Seasonal space heating energy efficiency	η_s	121	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	9.9	kW	T _j = - 7 °C	COP _d	1.80	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 2 °C	P _{dh}	6	kW	T _j = + 2 °C	COP _d	3.05	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	4.20	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	6.9	kW	T _j = +12 °C	COP _d	5.83	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	9.9	kW	T _j = bivalent temperature	COP _d	1.80	-
T _j = operation limit temperature	P _{dh}	7.7	kW	T _j = operation limit temperature	COP _d	1.58	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	1.8	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)
Annual energy consumption	Q _{HE}	7387	kWh
Rated air flow rate, outdoors		6600	m ³ /h

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

Contact details

MITSUBISHI ELECTRIC CORPORATION SHIZUOKA WORKS 3-18-1, Oshika, Suruga-ku, Shizuoka 422-8528, Japan

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P140VKM5
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		average climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.2	kW	Seasonal space heating energy efficiency	η_s	169	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	10.2	kW	T _j = - 7 °C	COP _d	2.74	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	6	kW	T _j = + 2 °C	COP _d	4.24	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	6.1	kW	T _j = + 7 °C	COP _d	5.61	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = +12 °C	P _{dh}	7.3	kW	T _j = +12 °C	COP _d	7.22	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	10.2	kW	T _j = bivalent temperature	COP _d	2.74	-
T _j = operation limit temperature	P _{dh}	7.9	kW	T _j = operation limit temperature	COP _d	1.72	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-7	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	1.5	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)
Annual energy consumption	Q _{HE}	5341	kWh
Rated air flow rate, outdoors		6600	m ³ /h

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

Contact details	
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P140VKM5
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	106	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.9	kW	T _j = - 7 °C	COP _d	2.24	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = + 2 °C	P _{dh}	4.7	kW	T _j = + 2 °C	COP _d	3.23	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 7 °C	P _{dh}	5.6	kW	T _j = + 7 °C	COP _d	4.19	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	6.9	kW	T _j = +12 °C	COP _d	5.69	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.7	kW	T _j = bivalent temperature	COP _d	1.50	-
T _j = operation limit temperature	P _{dh}	7.7	kW	T _j = operation limit temperature	COP _d	1.50	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	8.0	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)
Annual energy consumption	Q _{HE}	7263	kWh
Rated air flow rate, outdoors		6600	m ³ /h

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

Contact details

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P140VKM5
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		colder climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.0	kW	Seasonal space heating energy efficiency	η_s	133	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	4.9	kW	T _j = - 7 °C	COP _d	2.77	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = + 2 °C	P _{dh}	5.2	kW	T _j = + 2 °C	COP _d	4.18	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = + 7 °C	P _{dh}	6.1	kW	T _j = + 7 °C	COP _d	5.34	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = +12 °C	P _{dh}	7.2	kW	T _j = +12 °C	COP _d	6.72	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	7.7	kW	T _j = bivalent temperature	COP _d	1.69	-
T _j = operation limit temperature	P _{dh}	7.7	kW	T _j = operation limit temperature	COP _d	1.69	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	-20	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	8.0	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items				Rated air flow rate, outdoors			
Capacity control		variable		-	6600	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)				
Annual energy consumption	Q _{HE}	5844	kWh				

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

Contact details

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P140VKM5
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		medium-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.0	kW	Seasonal space heating energy efficiency	η_s	139	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	10.2	kW	T _j = + 2 °C	COP _d	1.51	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	6.4	kW	T _j = + 7 °C	COP _d	2.97	-
Degradation co-efficient (**)	C _{dh}	0.98	-				
T _j = +12 °C	P _{dh}	6.7	kW	T _j = +12 °C	COP _d	5.04	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	10.2	kW	T _j = bivalent temperature	COP _d	1.51	-
T _j = operation limit temperature	P _{dh}	7.7	kW	T _j = operation limit temperature	COP _d	1.50	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items				Rated air flow rate, outdoors			
Capacity control		variable		-	6600	m ³ /h	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)				
Annual energy consumption	Q _{HE}	3746	kWh				

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

Contact details

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):	Outdoor unit:	PUMY-P140VKM5
	Indoor unit:	EHSC-***D
Air-to-water heat pump:		yes
Water-to-water heat pump:		no
Brine-to-water heat pump:		no
Low-temperature heat pump:		no
Equipped with a supplementary heater:		yes
Heat pump combination heater:		yes
Parameters for		low-temperature application.
Parameters for		warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.2	kW	Seasonal space heating energy efficiency	η_s	208	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _j				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _j			
T _j = - 7 °C	P _{dh}	-	kW	T _j = - 7 °C	COP _d	-	-
Degradation co-efficient (**)	C _{dh}	-	-				
T _j = + 2 °C	P _{dh}	11.2	kW	T _j = + 2 °C	COP _d	2.51	-
Degradation co-efficient (**)	C _{dh}	0.99	-				
T _j = + 7 °C	P _{dh}	7.2	kW	T _j = + 7 °C	COP _d	4.85	-
Degradation co-efficient (**)	C _{dh}	0.97	-				
T _j = +12 °C	P _{dh}	7.2	kW	T _j = +12 °C	COP _d	6.67	-
Degradation co-efficient (**)	C _{dh}	0.96	-				
T _j = bivalent temperature	P _{dh}	11.2	kW	T _j = bivalent temperature	COP _d	2.51	-
T _j = operation limit temperature	P _{dh}	7.9	kW	T _j = operation limit temperature	COP _d	1.63	-
T _j = - 15 °C (if TOL < - 20 °C)	P _{dh}	-	kW	T _j = - 15 °C (if TOL < - 20 °C)	COP _d	-	-
Bivalent temperature	T _{biv}	2	°C	Operation limit temperature	TOL	-20	°C
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.040	kW	Rated heat output (*)	P _{sup}	0.0	kW
Thermostat-off mode	P _{TO}	0.040	kW				
Standby mode	P _{SB}	0.040	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW				

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	40/69	dB(A)
Annual energy consumption	Q _{HE}	2830	kWh
Rated air flow rate, outdoors		6600	m ³ /h

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

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