

	<u> </u>		
Summary of	Ecodan Power Inverter 8 AA	Reg. No.	037-0056-20
Certificate Holder			
Name	Mitsubishi Electric Air Conditioning Systems Euro	pe LTD	
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering T	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)	
Name of testing laboratory	CETIAT		
Subtype title	Ecodan Power Inverter 8 AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3 kg		
Certification Date	09.04.2020		
Testing basis	HP Keymark scheme rules rev. no. 7		



Model: PUHZ-SW75VAA(-BS) + EHSD-M*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	162 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.12	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh	0.95	0.96
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.95	0.96
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.95	0.96



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	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh	0.95	0.96
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.30	1.37
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3500 kWh	4325 kWh



Model: PUHZ-SW75VAA(-BS) + EHSD-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	162 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.12	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh	0.95	0.96
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.95	0.96
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.95	0.96



Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh	0.95	0.96
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.30	1.37
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3500 kWh	4325 kWh



Model: PUHZ-SW75VAA(-BS) + EHSD-YM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	162 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.12	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh	0.95	0.96
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.95	0.96
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.95	0.96



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	,	
Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh	0.95	0.96
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.30	1.37
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3500 kWh	4325 kWh



Model: PUHZ-SW75VAA(-BS) + EHST20D-M*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

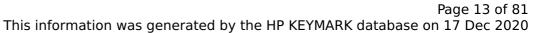
EN 14511-4	
Shutting off the heat transfer medium flow	nassod
Shutting on the heat transfer medium now	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



 $$\operatorname{Page}\ 12$$ of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

EN 14825	
	Medium temperature
η_s	129 %
Prated	7.10 kW
SCOP	3.31
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	2.04
Cdh	0.96
Pdh Tj = +2°C	3.80 kW
$COP Tj = +2^{\circ}C$	3.23
Cdh	0.96
Pdh Tj = +7°C	2.90 kW
COP Tj = +7°C	4.59
Cdh	0.96



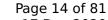


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Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.96
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
РСК	o w
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW

4325 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe





EN 16147		
Declared load profile	L	
Efficiency ηDHW	104 %	
СОР	2.46	
Heating up time	2:28 h:min	
Standby power input	31.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	

Model: PUHZ-SW75VAA(-BS) + EHST20D-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

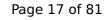
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



 $$\operatorname{\textit{Page}}\ 16$$ of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

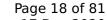
EN 14825		
	Medium temperature	
η_{s}	129 %	
Prated	7.10 kW	
SCOP	3.31	
Tbiv	-7 °C	
TOL	-20 °C	
Pdh Tj = -7°C	6.30 kW	
COP Tj = -7°C	2.04	
Cdh	0.96	
Pdh Tj = +2°C	3.80 kW	
COP Tj = +2°C	3.23	
Cdh	0.96	
Pdh Tj = +7°C	2.90 kW	
$COP Tj = +7^{\circ}C$	4.59	
Cdh	0.96	





This information was generated by the	
Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.96
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4325 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	104 %	
COP	2.46	
Heating up time	2:28 h:min	
Standby power input	31.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SW75VAA(-BS) + EHST20D-YM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

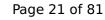
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



 $$\operatorname{\textit{Page}}\xspace$ 20 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

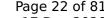
Modium to non outline
Medium temperature
129 %
7.10 kW
3.31
-7 °C
-20 °C
6.30 kW
2.04
0.96
3.80 kW
3.23
0.96
2.90 kW
4.59
0.96





This information was generated by the	
Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.96
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4325 kWh

Domestic Hot Water (DHW)





$$\operatorname{Page}\ 22$$ of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	104 %	
СОР	2.46	
Heating up time	2:28 h:min	
Standby power input	31.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



Model: PUHZ-SW75VAA(-BS) + ERSD-VM*C

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.00 kW	8.00 kW	
El input	1.82 kW	3.03 kW	
СОР	4.40	2.64	
Indoor water flow rate	1.38 m³/h	0.86 m³/h	

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	166 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.22	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh	0.95	0.96
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.95	0.96
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.95	0.96



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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh	0.95	0.96
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.30	1.37
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3500 kWh	4325 kWh



Model: PUHZ-SW75VAA(-BS) + ERST20D-M*C

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

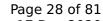
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



 $$\operatorname{\textit{Page}}\xspace$ 27 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

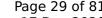
EN 14825	
	Medium temperature
S	132 %
rated	7.10 kW
СОР	3.37
iv	-7 °C
)L	-20 °C
h Tj = -7°C	6.30 kW
OP Tj = -7°C	2.04
h	0.96
n Tj = +2°C	3.80 kW
P Tj = +2°C	3.23
h	0.96
h Tj = +7°C	2.90 kW
P Tj = +7°C	4.59
h	0.96





This information was generated by the	
Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.96
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4325 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	104 %
СОР	2.46
Heating up time	2:28 h:min
Standby power input	31.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUHZ-SW75VAA(-BS) + ERST20D-VM*C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

EN 14511-4		
Shutting off the heat transfer medium flow	nassod	
Shutting on the heat transfer medium now	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



 $$\operatorname{\textit{Page}}\ 31$$ of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

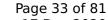
Medium temperature 132 % 7.10 kW
7.10 kW
3.37
-7 °C
-20 °C
6.30 kW
2.04
0.96
3.80 kW
3.23
0.96
2.90 kW
4.59
0.96





Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.96
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4325 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	104 %
СОР	2.46
Heating up time	2:28 h:min
Standby power input	31.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



Model: PUHZ-SW75VAA(-BS) + EHST20D-VM*C2

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2				
	Low temperature	Medium temperature		
Heat output	8.00 kW			
El input	3.03 kW			
СОР	2.64			
Indoor water flow rate	0.86 m³/h			

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



EN 12102-1		
	Medium temperature	
Sound power level indoor	40 dB(A)	
Sound power level outdoor	58 dB(A)	

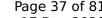
EN 14825		
	Medium temperature	
η_{s}	129 %	
Prated	7.10 kW	
SCOP	3.31	
ГЬіν	-7 °C	
гоц	-20 °C	
Pdh Tj = -7°C	6.30 kW	
COP Tj = -7°C	2.04	
Cdh	0.96	
Pdh Tj = +2°C	3.80 kW	
COP Tj = +2°C	3.23	
Cdh	0.96	
Pdh Tj = +7°C	2.90 kW	
$COP Tj = +7^{\circ}C$	4.59	
Cdh	0.96	





This information was generated by the	THE RETMARK database on 17 Dec 2020
Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.96
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4325 kWh
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Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}\xspace$ 37 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Heating up time	2:28 h:min	
Reference hot water temperature	52.5 °C	
Efficiency ηDHW	145 %	
СОР	3.41	
Standby power input	29.0 W	
Mixed water at 40°C	292 I	



Model: PUHZ-SW75VAA(-BS) + ERST20D-VM*C2

General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

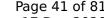
EN 14825	
	Medium temperature
η_s	132 %
Prated	7.10 kW
SCOP	3.37
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	2.04
Cdh	0.96
Pdh Tj = +2°C	3.80 kW
$COP Tj = +2^{\circ}C$	3.23
Cdh	0.96
Pdh Tj = +7°C	2.90 kW
COP Tj = +7°C	4.59
Cdh	0.96





This information was generated by the	
Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.96
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	15 W
РТО	15 W
PSB	15 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4325 kWh

Domestic Hot Water (DHW)





 $$\operatorname{Page}\ 41$$ of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Heating up time	2:28 h:min	
Reference hot water temperature	52.5 °C	
Efficiency ηDHW	145 %	
СОР	3.41	
Standby power input	29.0 W	
Mixed water at 40°C	292 I	



Model: PUHZ-SW75YAA(-BS) + EHSD-M*C

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	160 %	128 %
Prated	7.20 kW	7.10 kW
SCOP	4.07	3.28
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh	0.94	0.95
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.94	0.95
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.94	0.95



$$\operatorname{Page}$ 44 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh	0.94	0.95
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.30	1.37
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3507 kWh	4329 kWh



Model: PUHZ-SW75YAA(-BS) + EHSD-VM*C

General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.00 kW	8.00 kW	
El input	1.82 kW	3.03 kW	
СОР	4.40	2.64	
Indoor water flow rate	1.38 m³/h	0.86 m³/h	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	160 %	128 %
Prated	7.20 kW	7.10 kW
SCOP	4.07	3.28
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh	0.94	0.95
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.94	0.95
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.94	0.95



$$\operatorname{Page}\ 47$$ of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh	0.94	0.95
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.30	1.37
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3507 kWh	4329 kWh



Model: PUHZ-SW75YAA(-BS) + EHSD-YM*C

General Data	
Power supply 3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	160 %	128 %
Prated	7.20 kW	7.10 kW
SCOP	4.07	3.28
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh	0.94	0.95
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.94	0.95
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.94	0.95



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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh	0.94	0.95
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.30	1.37
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3507 kWh	4329 kWh



Model: PUHZ-SW75YAA(-BS) + EHST20D-M*C

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

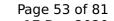
EN 14511-4		
Shutting off the heat transfer medium flow	nassod	
Shutting on the heat transfer medium now	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



 $$\operatorname{\textit{Page}}\xspace$ 52 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

EN 14825	
	Medium temperature
η_{s}	128 %
Prated	7.10 kW
SCOP	3.28
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	2.04
Cdh	0.95
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.95
Pdh Tj = +7°C	2.90 kW
COP Tj = +7°C	4.59
Cdh	0.95





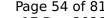
This information was generated by the HP KEYMARK database on 17 Dec 2020 Pdh Tj = 12° C 2.80 kW $COP Tj = 12^{\circ}C$ 6.10 Cdh 0.95 Pdh Tj = Tbiv6.30 kW 2.04 COP Tj = TbivPdh Tj = TOL5.60 kW COPTj = TOL1.37 WTOL 60 °C Poff 22 W PTO 22 W **PSB** 22 W **PCK** 0 W Supplementary Heater: Type of energy input electricity 1.00 kW Supplementary Heater: PSUP

Domestic Hot Water (DHW)

Annual energy consumption Qhe

Average Climate

4329 kWh





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	104 %	
СОР	2.46	
Heating up time	2:28 h:min	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	
Standby power input	42.0 W	



Model: PUHZ-SW75YAA(-BS) + EHST20D-VM*C

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

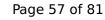
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



 $$\operatorname{\textit{Page}}\xspace$ 56 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
Medium temperature	
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

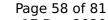
Medium temperature 128 % 7.10 kW 3.28 -7 °C -20 °C
7.10 kW 3.28 -7 °C
3.28 -7 °C
-7 °C
-20 °C
6.30 kW
2.04
0.95
3.80 kW
3.23
0.95
2.90 kW
4.59
0.95





This information was generated by the	
Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.95
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	22 W
РТО	22 W
PSB	22 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4329 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	104 %	
СОР	2.46	
Heating up time	2:28 h:min	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	
Standby power input	42.0 W	

Model: PUHZ-SW75YAA(-BS) + EHST20D-YM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

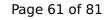
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



 $$\operatorname{\textit{Page}}\xspace$ 60 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

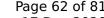
EN 14825	
	Medium temperature
η_s	128 %
Prated	7.10 kW
SCOP	3.28
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	2.04
Cdh	0.95
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.95
Pdh Tj = +7°C	2.90 kW
COP Tj = +7°C	4.59
Cdh	0.95





This information was generated by the	
Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.95
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	22 W
РТО	22 W
PSB	22 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4329 kWh

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$ 62 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	104 %	
СОР	2.46	
Heating up time	2:28 h:min	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	
Standby power input	42.0 W	



Model: PUHZ-SW75YAA(-BS) + ERSD-VM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



 $$\operatorname{\textit{Page}}\xspace$ 64 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.20	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.43	2.04
Cdh	0.94	0.95
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.94	0.95
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.94	0.95



 $$\operatorname{\textit{Page}}\xspace$ 65 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.93	6.10
Cdh	0.94	0.95
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.43	2.04
Pdh Tj = TOL	5.60 kW	5.60 kW
COP Tj = TOL	1.30	1.37
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	3507 kWh	4329 kWh



Model: PUHZ-SW75YAA(-BS) + ERST20D-M*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



 $$\operatorname{\textit{Page}}\xspace$ 67 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

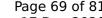
EN 14825	
	Medium temperature
η_{s}	132 %
Prated	7.10 kW
SCOP	3.36
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7 °C	2.04
Cdh	0.95
Pdh Tj = $+2$ °C	3.80 kW
$COP Tj = +2^{\circ}C$	3.23
Cdh	0.95
Pdh Tj = $+7^{\circ}$ C	2.90 kW
COP Tj = +7°C	4.59
Cdh	0.95
Cuii	





Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.95
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	22 W
PTO	22 W
PSB	22 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4329 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	104 %
СОР	2.46
Heating up time	2:28 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278

Model: PUHZ-SW75YAA(-BS) + ERST20D-VM*C

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



 $$\operatorname{\textit{Page}}\ 71$$ of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

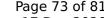
EN 14825	
	Medium temperature
η_s	132 %
Prated	7.10 kW
SCOP	3.36
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	2.04
Cdh	0.95
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.95
Pdh Tj = +7°C	2.90 kW
COP Tj = +7°C	4.59
Cdh	0.95
	·





Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.95
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	22 W
PTO	22 W
PSB	22 W
PCK	o w
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4329 kWh

Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}\xspace$ 73 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency ηDHW	104 %
СОР	2.46
Heating up time	2:28 h:min
Standby power input	42.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278

Model: PUHZ-SW75YAA(-BS) + EHST20D-VM*C2

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



 $$\operatorname{\textit{Page}}\xspace$ 75 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

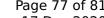
EN 14825	
	Medium temperature
η_{s}	128 %
Prated	7.10 kW
SCOP	3.28
biv	-7 °C
OL .	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	2.04
dh	0.95
dh Tj = +2°C	3.80 kW
OP Tj = +2°C	3.23
dh	0.95
dh Tj = +7°C	2.90 kW
OP Tj = +7°C	4.59
dh	0.95





This information was generated by the	
Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.95
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	22 W
РТО	22 W
PSB	22 W
PCK	0 W
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4329 kWh

Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}\xspace$ 77 of 81 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Heating up time	2:28 h:min	
Reference hot water temperature	52.5 °C	
Efficiency ηDHW	145 %	
СОР	3.41	
Mixed water at 40°C	292 I	
Standby power input	35.0 W	



Model: PUHZ-SW75YAA(-BS) + ERST20D-VM*C2

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	
El input	3.03 kW	
СОР	2.64	
Indoor water flow rate	0.86 m³/h	

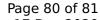
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



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EN 12102-1	
	Medium temperature
Sound power level indoor	40 dB(A)
Sound power level outdoor	58 dB(A)

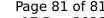
EN 14825	
	Medium temperature
η_s	132 %
Prated	7.10 kW
SCOP	3.36
Tbiv	-7 °C
TOL	-20 °C
Pdh Tj = -7°C	6.30 kW
COP Tj = -7°C	2.04
Cdh	0.95
Pdh Tj = +2°C	3.80 kW
COP Tj = +2°C	3.23
Cdh	0.95
Pdh Tj = +7°C	2.90 kW
COP Tj = +7°C	4.59
Cdh	0.95





Pdh Tj = 12°C	2.80 kW
COP Tj = 12°C	6.10
Cdh	0.95
Pdh Tj = Tbiv	6.30 kW
COP Tj = Tbiv	2.04
Pdh Tj = TOL	5.60 kW
COP Tj = TOL	1.37
WTOL	60 °C
Poff	22 W
РТО	22 W
PSB	22 W
PCK	o w
Supplementary Heater: Type of energy input	electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	4329 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Heating up time	2:28 h:min	
Reference hot water temperature	52.5 °C	
Efficiency ηDHW	145 %	
СОР	3.41	
Mixed water at 40°C	292 I	
Standby power input	35.0 W	