

	This information was generated by the in RET		
Summary of	Ecodan Power Inverter 8-200D AA	Reg. No.	037-0011-20
Certificate Holder	Certificate Holder		
Name	Mitsubishi Electric Air Conditioning Systems Euro	ope LTD	
Address	Nettlehill Road, Houston Industrial Estate	Zip	EH54 5EQ
City	Livingston	Country	United Kingdom
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)		
Name of testing laboratory	Heat Pump Test Center WPZ, Switzerland		
Subtype title	Ecodan Power Inverter 8-200D AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3 kg		
Certification Date	14.02.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		



### Model: PUHZ-SW75VAA + EHST20D-M\*D

General Data	
Power supply	1x230V 50Hz

#### Heating

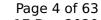
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

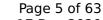
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.12	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98
	'	





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 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

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.41	
Heating up time	02:23 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



### Model: PUHZ-SW75YAA + EHST20D-M\*D

General Data	
Power supply	3x400V 50Hz

#### Heating

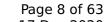
EN 14511-2		
Low temperature Medium temperature		
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98





This information was	generated by the HP	KEYMARK database on 17 De	ec 202
Pdh Tj = 12°C	3.10 kW	2.80 kW	
COP Tj = 12°C	7.00	6.10	
Cdh	0.96	0.97	
Pdh Tj = Tbiv	6.40 kW	6.30 kW	
COP Tj = Tbiv	2.54	2.04	
Pdh Tj = TOL	8.53 kW	7.65 kW	
COP Tj = TOL	3.18	2.20	
WTOL	60 °C	60 °C	
Poff	22 W	22 W	
РТО	22 W	22 W	
PSB	22 W	22 W	
PCK	o w	0 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	1.00 kW	1.00 kW	

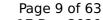
Domestic Hot Water (DHW)

Annual energy consumption Qhe

Average Climate

3507 kWh

4329 kWh





EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	02:23 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



### Model: PUHZ-SW75YAA + EHST20D-VM\*D

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

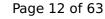
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

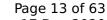
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	160 %	128 %
Prated	7.20 kW	7.10 kW
SCOP	4.07	3.28
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 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	3507 kWh	4329 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	02:23 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



## Model: PUHZ-SW75YAA + EHST20D-YM\*D

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

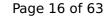
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



 $$\operatorname{\textit{Page}}\ 15$$  of 63 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

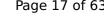
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	160 %	128 %
Prated	7.20 kW	7.10 kW
SCOP	4.07	3.28
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 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

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	02:23 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



## Model: PUHZ-SW75YAA + ERST20D-VM\*D

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	

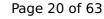
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



 $$\operatorname{\textit{Page}}\ 19$ of 63$$  This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

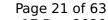
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	165 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.20	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	02:23 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



### Model: PUHZ-SW75YAA + EHSD-M\*D

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	



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98



# $$\operatorname{\textit{Page}}\xspace$ 24 of 63 This information was generated by the HP KEYMARK database on 17 Dec 2020

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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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 + EHSD-VM\*D

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	



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98



# $$\operatorname{\textit{Page}}\xspace$ 27 of 63 This information was generated by the HP KEYMARK database on 17 Dec 2020

	Teracea by the fill RETT	
Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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 + EHSD-YM\*D

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$  29 of 63 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98



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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 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	3507 kWh	4329 kWh



### Model: PUHZ-SW75YAA + ERSD-M\*D

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	



 $$\operatorname{\textit{Page}}\ 32$$  of 63 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98



# $$\operatorname{\textit{Page}}\xspace$ 33 of 63 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	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 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	3507 kWh	4329 kWh



### Model: PUHZ-SW75YAA + ERSD-VM\*D

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	



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EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	41 dB(A)	41 dB(A)	
Sound power level outdoor	58 dB(A)	58 dB(A)	

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	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	2.54	2.04	
Cdh	0.99	1.00	
Pdh Tj = +2°C	3.90 kW	3.80 kW	
COP Tj = +2°C	4.16	3.23	
Cdh	0.98	0.99	
Pdh Tj = +7°C	2.60 kW	2.90 kW	
COP Tj = +7°C	5.62	4.59	
Cdh	0.97	0.98	



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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	22 W	22 W
РТО	22 W	22 W
PSB	22 W	22 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	3507 kWh	4329 kWh



# Model: PUHZ-SW75VAA + EHST20D-VM\*D

General Data	
Power supply	1x230V 50Hz

#### Heating

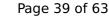
EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.00 kW	8.00 kW
El input	1.82 kW	3.03 kW
СОР	4.40	2.64
Indoor water flow rate	1.38 m³/h	0.86 m³/h

EN 14511-4	
Shutting off the heat transfer medium flow	naccod
Shutting on the heat transfer medium now	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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

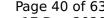
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.12	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	145 %
СОР	3.41
Heating up time	02:23 h:min
Standby power input	35.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278



# Model: PUHZ-SW75VAA + EHST20D-YM\*D

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



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

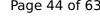
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	162 %	129 %
Prated	7.20 kW	7.10 kW
SCOP	4.12	3.31
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.41	
Heating up time	02:23 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



# Model: PUHZ-SW75VAA + ERST20D-VM\*D

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

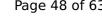
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	166 %	132 %
Prated	7.20 kW	7.10 kW
SCOP	4.22	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	6.40 kW	6.30 kW
COP Tj = -7°C	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98





Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	145 %	
СОР	3.41	
Heating up time	02:23 h:min	
Standby power input	35.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	278	



## Model: PUHZ-SW75VAA + EHSD-M\*D

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98



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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 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 + EHSD-VM\*D

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98



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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 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 + EHSD-YM\*D

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



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98



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	,	
Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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 + ERSD-M\*D

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	41 dB(A)	41 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	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	2.54	2.04
Cdh	0.99	1.00
Pdh Tj = +2°C	3.90 kW	3.80 kW
COP Tj = +2°C	4.16	3.23
Cdh	0.98	0.99
Pdh Tj = +7°C	2.60 kW	2.90 kW
COP Tj = +7°C	5.62	4.59
Cdh	0.97	0.98



	Teracea by the fill RETT	
Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
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 + ERSD-VM\*D

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	41 dB(A)	41 dB(A)		
Sound power level outdoor	58 dB(A)	58 dB(A)		

EN 14825				
	Low temperature	Medium temperature		
$\eta_{s}$	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	2.54	2.04		
Cdh	0.99	1.00		
Pdh Tj = +2°C	3.90 kW	3.80 kW		
COP Tj = +2°C	4.16	3.23		
Cdh	0.98	0.99		
Pdh Tj = +7°C	2.60 kW	2.90 kW		
COP Tj = +7°C	5.62	4.59		
Cdh	0.97	0.98		



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Pdh Tj = 12°C	3.10 kW	2.80 kW
COP Tj = 12°C	7.00	6.10
Cdh	0.96	0.97
Pdh Tj = Tbiv	6.40 kW	6.30 kW
COP Tj = Tbiv	2.54	2.04
Pdh Tj = TOL	8.53 kW	7.65 kW
COP Tj = TOL	3.18	2.20
WTOL	60 °C	60 °C
Poff	15 W	15 W
РТО	15 W	15 W
PSB	15 W	15 W
PCK	0 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