Login

Summary of	Ecodan Power Inverter 6/9-170D Packaged AA	Reg. No.	037-0031-20
Certificate Holder			
Name	Mitsubishi Electric Air Conditioning Systems Europe 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)		
Subtype title	Ecodan Power Inverter 6/9-170D Packaged AA		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	2.2 kg		
Certification Date	22.06.2020		
Testing basis	HP Keymark scheme rules rev. no. 6		

Model: PUZ-WM60VAA(-BS) + EHPT17X-*M*D

Configure model	
Model name	PUZ-WM60VAA(-BS) + EHPT17X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6 kW	6 kW
El input	1.19 kW	2.01 kW
COP	5.06	2.98

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

Warmer Climate

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	218 %	154 %
Prated	6 kW	6 kW
SCOP	5.52	3.92
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6 kW	6 kW
COP Tj = +2°C	3.75	1.85
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	3.9 kW	3.9 kW
COP Tj = +7°C	4.84	3.3
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.6	5.76
Cdh Tj = +12 °C	0.97	0.98

Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	3.75	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	1.85
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	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	0 kW	0 kW
Annual energy consumption Qhe	1453 kWh	2046 kWh

Average Climate

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	190 %	142 %
Prated	6 kW	6 kW
SCOP	4.84	3.62
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.74	3.5
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.3 kW	3.6 kW
COP Tj = +7°C	6.36	5.07
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	3.1 kW	3.2 kW
COP Tj = 12°C	8.86	6.81
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.3 kW	5.3 kW
COP Tj = Tbiv	3.4	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14

WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2564 kWh	3428 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	135 %
COP	3.19
Heating up time	02:17 h:min
Standby power input	37 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	120 %
COP	2.85
Heating up time	02:31 h:min
Standby power input	39 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: PUZ-WM60VAA(-BS) + ERPT17X-*M*D

Configure model	
Model name	PUZ-WM60VAA(-BS) + ERPT17X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6 kW	6 kW
El input	1.19 kW	2.01 kW
COP	5.06	2.98

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

Warmer Climate

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	226 %	158 %
Prated	6 kW	6 kW
SCOP	5.73	4.02
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	6 kW	6 kW
COP Tj = +2°C	3.75	1.85
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	3.9 kW	3.9 kW
COP Tj = +7°C	4.8	3.25
Cdh Tj = +7 °C	0.98	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.5	5.76
Cdh Tj = +12 °C	0.97	0.98

Pdh Tj = Tbiv	6 kW	6 kW
COP Tj = Tbiv	3.75	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.75	1.85
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	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	0 kW	0 kW
Annual energy consumption Qhe	1400 kWh	1994 kWh

Average Climate

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	197 %	145 %
Prated	6 kW	6 kW
SCOP	4.99	3.71
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.3 kW	5.3 kW
COP Tj = -7°C	3.4	2.26
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.1 kW	3.5 kW
COP Tj = +2°C	4.84	3.56
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.3 kW	3.6 kW
COP Tj = +7°C	6.35	5.07
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	3.1 kW	3.2 kW
COP Tj = 12°C	8.86	6.81
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	5.3 kW	5.3 kW
COP Tj = Tbiv	3.4	2.26
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.21 kW	5.21 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.02	2.14

WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	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	0.79 kW	0.79 kW
Annual energy consumption Qhe	2484 kWh	3344 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	135 %
COP	3.19
Heating up time	02:17 h:min
Standby power input	37 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	120 %
COP	2.85
Heating up time	02:31 h:min
Standby power input	39 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: PUZ-WM85VAA(-BS) + EHPT17X-*M*D

Configure model	
Model name	PUZ-WM85VAA(-BS) + EHPT17X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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

Warmer Climate

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	227 %	156 %
Prated	8.5 kW	8.5 kW
SCOP	5.76	3.98
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	5	3.28
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98

Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	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	0 kW	0 kW
Annual energy consumption Qhe	1972 kWh	2852 kWh

Average Climate

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	193 %	139 %
Prated	8.5 kW	8.5 kW
SCOP	4.89	3.54
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.71	3.42
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01

WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3592 kWh	4958 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	135 %
COP	3.19
Heating up time	02:17 h:min
Standby power input	37 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	120 %
COP	2.85
Heating up time	02:31 h:min
Standby power input	39 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: PUZ-WM85VAA(-BS) + ERPT17X-*M*D

Configure model	
Model name	PUZ-WM85VAA(-BS) + ERPT17X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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

Warmer Climate

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	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.92	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	4.92	3.24
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.77	5.76
Cdh Tj = +12 °C	0.97	0.98

Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	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	0 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2802 kWh

Average Climate

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	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.77	3.45
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.98
Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.97
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01

WTOL	60 °C	60 °C
Poff	15 W	15 W
PTO	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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3515 kWh	4881 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	135 %
COP	3.19
Heating up time	02:17 h:min
Standby power input	37 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	120 %
COP	2.85
Heating up time	02:31 h:min
Standby power input	39 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: PUZ-WM85YAA(-BS) + EHPT17X-*M*D

Configure model	
Model name	PUZ-WM85YAA(-BS) + EHPT17X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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

Warmer Climate

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	224 %	155 %
Prated	8.5 kW	8.5 kW
SCOP	5.69	3.94
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	5.1	3.31
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98

Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	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	0 kW	0 kW
Annual energy consumption Qhe	1997 kWh	2882 kWh

Average Climate

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	190 %	138 %
Prated	8.5 kW	8.5 kW
SCOP	4.84	3.52
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.69	3.42
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.82	5
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01

WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3632 kWh	4994 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	135 %
COP	3.19
Heating up time	02:17 h:min
Standby power input	37 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	120 %
COP	2.85
Heating up time	02:31 h:min
Standby power input	39 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Model: PUZ-WM85YAA(-BS) + ERPT17X-*M*D

Configure model	
Model name	PUZ-WM85YAA(-BS) + ERPT17X-*M*D
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	8.5 kW	8.5 kW
El input	1.77 kW	3.01 kW
COP	4.8	2.82

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

Warmer Climate

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	234 %	159 %
Prated	8.5 kW	8.5 kW
SCOP	5.91	4.05
Tbiv	2 °C	2 °C
TOL	-20 °C	-20 °C
Pdh Tj = +2°C	8.5 kW	8.5 kW
COP Tj = +2°C	3.51	1.88
Cdh Tj = +2 °C	0.99	1
Pdh Tj = +7°C	5.5 kW	5.5 kW
COP Tj = +7°C	4.98	3.26
Cdh Tj = +7 °C	0.99	0.99
Pdh Tj = 12°C	3.6 kW	3.4 kW
COP Tj = 12°C	7.78	5.76
Cdh Tj = +12 °C	0.97	0.98

Pdh Tj = Tbiv	8.5 kW	8.5 kW
COP Tj = Tbiv	3.51	1.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.5 kW	8.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	1.88
WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	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	0 kW	0 kW
Annual energy consumption Qhe	1920 kWh	2805 kWh

Average Climate

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	197 %	141 %
Prated	8.5 kW	8.5 kW
SCOP	5	3.6
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	7.5 kW	7.5 kW
COP Tj = -7°C	3.1	2.07
Cdh Tj = -7 °C	0.99	0.99
Pdh Tj = +2°C	4.6 kW	4.6 kW
COP Tj = +2°C	4.79	3.46
Cdh Tj = +2 °C	0.98	0.98
Pdh Tj = +7°C	3.2 kW	3.7 kW
COP Tj = +7°C	6.81	5
Cdh Tj = +7 °C	0.97	0.97
Pdh Tj = 12°C	3.2 kW	3.4 kW
COP Tj = 12°C	9.14	7.08
Cdh Tj = +12 °C	0.96	0.95
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	3.1	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.18 kW	7.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.8	2.01

WTOL	60 °C	60 °C
Poff	22 W	22 W
PTO	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	1.32 kW	1.32 kW
Annual energy consumption Qhe	3514 kWh	4884 kWh

Domestic Hot Water (DHW)

Warmer Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	135 %
COP	3.19
Heating up time	02:17 h:min
Standby power input	37 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l

Average Climate

EN 16147

Declared load profile	L
Efficiency ηDHW	120 %
COP	2.85
Heating up time	02:31 h:min
Standby power input	39 W
Reference hot water temperature	55.5 °C
Mixed water at 40°C	236 l