

Subtype Ecodan Power Inverter 10 AA

Certificate Holder	Mitsubishi Electric Air Conditioning Systems Europe LTD
Address	Nettlehill Road, Houston Industrial Estate
ZIP	EH54 5EQ
City	Livingston
Country	GB
Certification Body	SZU - Strojirensky zkusebni ustav (Engineering Test Institute, Public Enterprise)
Subtype title	Ecodan Power Inverter 10 AA
Registration number	037-0050-20
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	4.2 kg
Certification Date	09.04.2020
Testing basis	HP Keymark scheme rules rev. no. 7
Testing laboratory	SZU Brno, CZ

Model PUHZ-SW100VAA(-BS) + EHST20C-M*D

Model name	PUHZ-SW100VAA(-BS) + EHST20C-M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	145 %
COP	3.41
Heating up time	01:58 h:min
Standby power input	35 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	130 %
Prated	10.6 kW	10 kW

SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh

Model PUAZ-SW100YAA(-BS) + EHST20C-M*D

Model name	PUAZ-SW100YAA(-BS) + EHST20C-M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	145 %
COP	3.41
Heating up time	01:58 h:min
Standby power input	35 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	165 %	129 %
Prated	10.6 kW	10 kW

SCOP	4.21	3.3
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.14	3.18
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.97	0.98
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh

Model PUHZ-SW100YAA(-BS) + EHST20C-*M*D

Model name	PUHZ-SW100YAA(-BS) + EHST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

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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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh

Model PUHZ-SW100YAA(-BS) + EHSC-M*D

Model name	PUHZ-SW100YAA(-BS) + EHSC-M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

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Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
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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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh

Model PUHZ-SW100YAA(-BS) + EHSC-*M*D

Model name	PUHZ-SW100YAA(-BS) + EHSC-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	165 %	129 %
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Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
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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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5204 kWh	6262 kWh

Model PUAZ-SW100YAA(-BS) + ERST20C-*M*D

Model name	PUAZ-SW100YAA(-BS) + ERST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	145 %
COP	3.41
Heating up time	01:58 h:min
Standby power input	35 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	169 %	132 %

Prated	10.6 kW	10 kW
SCOP	4.31	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	0.99	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.2	3.22
Cdh Tj = +2 °C	0.98	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5086 kWh	6141 kWh

Model PUAZ-SW100YAA(-BS) + ERSC-M*D

Model name	PUAZ-SW100YAA(-BS) + ERSC-M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

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Heat output	11.2 kW	11.2 kW
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Annual energy consumption Qhe	5086 kWh	6141 kWh

Model PUAZ-SW100YAA(-BS) + ERSC-*M*D

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Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

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Any additional heat sources	n/a

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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	1.64 kW	1.42 kW
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Units	Indoor, Outdoor
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Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW

COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh

Model PUAZ-SW100VAA(-BS) + EHSC-*M*D

Model name	PUAZ-SW100VAA(-BS) + EHSC-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	130 %
Prated	10.6 kW	10 kW
SCOP	4.25	3.33
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.16	3.2
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW

COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5156 kWh	6204 kWh

Model PUHZ-SW100VAA(-BS) + ERST20C-*M*D

Model name	PUHZ-SW100VAA(-BS) + ERST20C-*M*D
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	145 %
COP	3.41
Heating up time	01:58 h:min
Standby power input	35 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	278 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	170 %	132 %

Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99
Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.3 kW	5.3 kW
COP Tj = 12°C	7.47	6.12
Cdh Tj = +12 °C	0.97	0.98
Pdh Tj = Tbiv	9.4 kW	8.9 kW
COP Tj = Tbiv	2.75	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.44	1.84
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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 kWh

Model PUAZ-SW100VAA(-BS) + ERSC-M*D

Model name	PUAZ-SW100VAA(-BS) + ERSC-M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
El input	2.52 kW	4.31 kW
COP	4.45	2.6

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	170 %	132 %
Prated	10.6 kW	10 kW
SCOP	4.32	3.37
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	9.4 kW	8.9 kW
COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	4.5 kW	4.7 kW
COP Tj = +7°C	5.55	4.79
Cdh Tj = +7 °C	0.98	0.98
Pdh Tj = 12°C	4.3 kW	5.3 kW
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.96 kW	8.58 kW
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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	1.64 kW	1.42 kW
Annual energy consumption Qhe	5070 kWh	6130 kWh

Model PUHZ-SW100VAA(-BS) + ERSC-*M*D

Model name	PUHZ-SW100VAA(-BS) + ERSC-*M*D
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	11.2 kW	11.2 kW
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EN 12102-1 | Average Climate

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EN 14825 | Average Climate

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COP Tj = -7°C	2.75	1.95
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	5.7 kW	5.4 kW
COP Tj = +2°C	4.21	3.22
Cdh Tj = +2 °C	0.99	0.99

Pdh Tj = +7°C	4.5 kW	4.7 kW
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Pdh Tj = 12°C	4.3 kW	5.3 kW
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WTOL	60 °C	60 °C
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PSB	15 W	15 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.64 kW	1.42 kW
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