

Subtype WSB 8-A-RME-AI/WSB 10-A-RME-AI

Certificate Holder	Max Weishaupt GmbH
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Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	WSB 8-A-RME-AI/WSB 10-A-RME-AI
Registration number	011-1W0615
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.3 kg
Certification Date	05.05.2023
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 12 (as of 2023-03)

Model WSB-8-A-RME-AI

Model name	WSB-8-A-RME-AI
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
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	6.68 kW	5.58 kW
El input	1.42 kW	2.09 kW
COP	4.69	2.68

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	125 %
Prated	7.00 kW	6.50 kW
SCOP	4.74	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.77 kW	5.26 kW
COP Tj = -7°C	2.90	1.95
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.50 kW	4.50 kW
COP Tj = +2°C	4.62	3.31
Cdh Tj = +2 °C	1.000	0.990

Pdh Tj = +7°C	2.67 kW	2.72 kW
COP Tj = +7°C	5.76	3.97
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.40 kW	2.84 kW
COP Tj = 12°C	8.54	5.30
Cdh Tj = +12 °C	0.990	0.980
Pdh Tj = Tbiv	5.77 kW	5.26 kW
COP Tj = Tbiv	2.90	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.47 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	0.993
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	4 W	4 W
PSB	14 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.53 kW	3.32 kW
Annual energy consumption Qhe	3054 kWh	4184 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	136 %	117 %
Prated	7.00 kW	7.00 kW
SCOP	3.46	2.99
Tbiv	-10 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.50 kW	4.20 kW
COP Tj = -7°C	3.10	2.00
Cdh Tj = -7 °C	1.000	0.970
Pdh Tj = +2°C	2.80 kW	3.10 kW
COP Tj = +2°C	4.50	4.12
Cdh Tj = +2 °C	1.000	0.960
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	5.63	4.70
Cdh Tj = +7 °C	0.900	0.950
Pdh Tj = 12°C	4.00 kW	2.70 kW
COP Tj = 12°C	8.10	5.37

Cdh Tj = +12 °C	0.900	0.950
Pdh Tj = Tbiv	4.70 kW	4.70 kW
COP Tj = Tbiv	2.80	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.30	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	4 W	4 W
PSB	14 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.00 kW	7.00 kW
Annual energy consumption Qhe	4983 kWh	5775 kWh
Pdh Tj = -15°C (if TOL)	3.50	3.50
COP Tj = -15°C (if TOL)	2.40	1.60
Cdh Tj = -15 °C	1.000	0.990

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	239 %	148 %
Prated	7.00 kW	7.00 kW
SCOP	6.06	3.78
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	7.00 kW
COP Tj = +2°C	3.53	2.70
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.00	3.42
Cdh Tj = +7 °C	0.990	1.000
Pdh Tj = 12°C	3.40 kW	2.70 kW
COP Tj = 12°C	8.54	4.41
Cdh Tj = +12 °C	0.990	0.950
Pdh Tj = Tbiv	7.10 kW	7.00 kW
COP Tj = Tbiv	3.53	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	7.00 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.53	2.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	4 W	4 W
PSB	14 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1544 kWh	2472 kWh

Model WSB-8-A-RMEK-AI

Model name	WSB-8-A-RMEK-AI
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
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	XL
Efficiency η_{DHW}	111 %
COP	2.69
Heating up time	1:17 h:min
Standby power input	35.7 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	214 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.16
Heating up time	1:31 h:min
Standby power input	38.3 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	214 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.18
Heating up time	1:11 h:min
Standby power input	29.7 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	218 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	6.68 kW	5.58 kW
El input	1.42 kW	2.09 kW
COP	4.69	2.68

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	125 %
Prated	7.00 kW	6.50 kW
SCOP	4.74	3.21
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.77 kW	5.26 kW
COP Tj = -7°C	2.90	1.95
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.50 kW	4.50 kW
COP Tj = +2°C	4.62	3.31
Cdh Tj = +2 °C	1.000	0.990
Pdh Tj = +7°C	2.67 kW	2.72 kW
COP Tj = +7°C	5.76	3.97
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	3.40 kW	2.84 kW
COP Tj = 12°C	8.54	5.30
Cdh Tj = +12 °C	0.990	0.980
Pdh Tj = Tbiv	5.77 kW	5.26 kW
COP Tj = Tbiv	2.90	1.95
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.47 kW	3.18 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	0.993
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	4 W	4 W
PSB	14 W	8 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.53 kW	3.32 kW
Annual energy consumption Qhe	3054 kWh	4184 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature
η_s	136 %	117 %
Prated	7.00 kW	7.00 kW
SCOP	3.46	2.99
Tbiv	-10 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	4.50 kW	4.20 kW
COP Tj = -7°C	3.10	2.00
Cdh Tj = -7 °C	1.000	0.970
Pdh Tj = +2°C	2.80 kW	3.10 kW
COP Tj = +2°C	4.50	4.12
Cdh Tj = +2 °C	1.000	0.960
Pdh Tj = +7°C	2.80 kW	2.80 kW
COP Tj = +7°C	5.63	4.70
Cdh Tj = +7 °C	0.900	0.950
Pdh Tj = 12°C	4.00 kW	2.70 kW
COP Tj = 12°C	8.10	5.37
Cdh Tj = +12 °C	0.900	0.950
Pdh Tj = Tbiv	4.70 kW	4.70 kW
COP Tj = Tbiv	2.80	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW	3.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.30	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	0.990
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	4 W	4 W
PSB	14 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.00 kW	7.00 kW
Annual energy consumption Qhe	4983 kWh	5775 kWh
Pdh Tj = -15°C (if TOL)	3.50	3.50

COP Tj = -15°C (if TOL	2.40	1.60
Cdh Tj = -15 °C	1.000	0.990

EN 12102-1 Warmer Climate		
	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 Warmer Climate		
	Low temperature	Medium temperature
ηs	239 %	148 %
Prated	7.00 kW	7.00 kW
SCOP	6.06	3.78
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.10 kW	7.00 kW
COP Tj = +2°C	3.53	2.70
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	5.00 kW	4.70 kW
COP Tj = +7°C	5.00	3.42
Cdh Tj = +7 °C	0.990	1.000
Pdh Tj = 12°C	3.40 kW	2.70 kW
COP Tj = 12°C	8.54	4.41
Cdh Tj = +12 °C	0.990	0.950
Pdh Tj = Tbiv	7.10 kW	7.00 kW
COP Tj = Tbiv	3.53	2.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.10 kW	7.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.53	2.70
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	12 W	12 W
PTO	4 W	4 W
PSB	14 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1544 kWh	2472 kWh

Model WSB-10-A-RME-AI

Model name	WSB-10-A-RME-AI
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
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	3.52 kW	5.16 kW
El input	0.72 kW	1.83 kW
COP	4.86	2.82

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	194 %	134 %
P _{rated}	9.00 kW	8.00 kW
SCOP	4.92	3.42
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh} T _j = -7 °C	7.40 kW	6.61 kW
COP T _j = -7 °C	3.22	2.20
C _{dh} T _j = -7 °C	1.000	1.000
P _{dh} T _j = +2 °C	5.00 kW	4.34 kW
COP T _j = +2 °C	4.74	3.34
C _{dh} T _j = +2 °C	1.000	1.000

Pdh Tj = +7°C	3.42 kW	2.94 kW
COP Tj = +7°C	6.63	4.51
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	3.50 kW	3.07 kW
COP Tj = 12°C	8.40	5.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.40 kW	6.61 kW
COP Tj = Tbiv	3.22	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.04 kW	5.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	4 W	4 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.96 kW	2.78 kW
Annual energy consumption Qhe	3779 kWh	4833 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	149 %	114 %
Prated	9.00 kW	7.00 kW
SCOP	3.79	2.93
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.50 kW	4.50 kW
COP Tj = -7°C	3.03	2.31
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.40 kW	3.10 kW
COP Tj = +2°C	5.25	4.12
Cdh Tj = +2 °C	1.000	0.960
Pdh Tj = +7°C	2.90 kW	2.60 kW
COP Tj = +7°C	7.17	5.11
Cdh Tj = +7 °C	0.900	0.950
Pdh Tj = 12°C	3.50 kW	3.30 kW
COP Tj = 12°C	9.29	7.53

Cdh Tj = +12 °C	0.900	0.950
Pdh Tj = Tbiv	5.50 kW	4.50 kW
COP Tj = Tbiv	3.03	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	3.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	4 W	4 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.00 kW	7.00 kW
Annual energy consumption Qhe	5847 kWh	5888 kWh
Pdh Tj = -15°C (if TOL)		
COP Tj = -15°C (if TOL)		
Cdh Tj = -15 °C		

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	263 %	176 %
Prated	10.00 kW	8.00 kW
SCOP	6.66	4.48
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.70 kW	9.10 kW
COP Tj = +2°C	3.58	2.48
Cdh Tj = +2 °C	1.000	0.990
Pdh Tj = +7°C	6.60 kW	5.10 kW
COP Tj = +7°C	5.89	3.67
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	3.40 kW	3.00 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.900	0.950
Pdh Tj = Tbiv	9.70 kW	9.10 kW
COP Tj = Tbiv	3.58	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	9.10 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.58	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	4 W	4 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2005 kWh	2385 kWh

Model WSB-10-A-RMEK-AI

Model name	WSB-10-A-RMEK-AI
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
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	XL
Efficiency η_{DHW}	110 %
COP	2.69
Heating up time	1:17 h:min
Standby power input	35.7 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	214 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	89 %
COP	2.16
Heating up time	1:31 h:min
Standby power input	38.3 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	214 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	131 %
COP	3.18
Heating up time	1:11 h:min
Standby power input	29.7 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	218 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	3.52 kW	5.16 kW
El input	0.72 kW	1.83 kW
COP	4.86	2.82

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	194 %	134 %
Prated	9.00 kW	8.00 kW
SCOP	4.92	3.42
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.40 kW	6.61 kW
COP Tj = -7°C	3.22	2.20
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.00 kW	4.34 kW
COP Tj = +2°C	4.74	3.34
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.42 kW	2.94 kW
COP Tj = +7°C	6.63	4.51
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	3.50 kW	3.07 kW
COP Tj = 12°C	8.40	5.70
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.40 kW	6.61 kW
COP Tj = Tbiv	3.22	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.04 kW	5.22 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	1.56
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	4 W	4 W
PSB	14 W	14 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.96 kW	2.78 kW
Annual energy consumption Qhe	3779 kWh	4833 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature
ηs	149 %	114 %
Prated	9.00 kW	7.00 kW
SCOP	3.79	2.93
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-20 °C
Pdh Tj = -7°C	5.50 kW	4.50 kW
COP Tj = -7°C	3.03	2.31
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	3.40 kW	3.10 kW
COP Tj = +2°C	5.25	4.12
Cdh Tj = +2 °C	1.000	0.960
Pdh Tj = +7°C	2.90 kW	2.60 kW
COP Tj = +7°C	7.17	5.11
Cdh Tj = +7 °C	0.900	0.950
Pdh Tj = 12°C	3.50 kW	3.30 kW
COP Tj = 12°C	9.29	7.53
Cdh Tj = +12 °C	0.900	0.950
Pdh Tj = Tbiv	5.50 kW	4.50 kW
COP Tj = Tbiv	3.03	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	3.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.18	1.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	4 W	4 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	9.00 kW	7.00 kW
Annual energy consumption Qhe	5847 kWh	5888 kWh
Pdh Tj = -15°C (if TOL		

COP Tj = -15°C (if TOL)

Cdh Tj = -15 °C

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	31 dB(A)	31 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

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	Low temperature	Medium temperature
ηs	263 %	176 %
Prated	10.00 kW	8.00 kW
SCOP	6.66	4.48
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.70 kW	9.10 kW
COP Tj = +2°C	3.58	2.48
Cdh Tj = +2 °C	1.000	0.990
Pdh Tj = +7°C	6.60 kW	5.10 kW
COP Tj = +7°C	5.89	3.67
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	3.40 kW	3.00 kW
COP Tj = 12°C	8.35	6.00
Cdh Tj = +12 °C	0.900	0.950
Pdh Tj = Tbiv	9.70 kW	9.10 kW
COP Tj = Tbiv	3.58	2.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.70 kW	9.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.58	2.48
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	11 W	11 W
PTO	4 W	4 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2005 kWh	2385 kWh