

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

Certificate Holder	Max Weishaupt GmbH
Address	Max-Weishaupt-Str. 14
ZIP	88477
City	Schwendi
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 Q _{he}	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
T _{biv}	-10 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	4.50 kW	4.20 kW
COP T _j = -7°C	3.10	2.00
C _{dh} T _j = -7 °C	1.000	0.970
P _{dh} T _j = +2°C	2.80 kW	3.10 kW
COP T _j = +2°C	4.50	4.12
C _{dh} T _j = +2 °C	1.000	0.960
P _{dh} T _j = +7°C	2.80 kW	2.80 kW
COP T _j = +7°C	5.63	4.70
C _{dh} T _j = +7 °C	0.900	0.950
P _{dh} T _j = 12°C	4.00 kW	2.70 kW
COP T _j = 12°C	8.10	5.37
C _{dh} T _j = +12 °C	0.900	0.950
P _{dh} T _j = T _{biv}	4.70 kW	4.70 kW
COP T _j = T _{biv}	2.80	1.70
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	3.50 kW	3.50 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	1.30	1.30
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	1.000	0.990
WTOL	60 °C	60 °C
P _{off}	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 Q _{he}	4983 kWh	5775 kWh
P _{dh} T _j = -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
η_s	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 %
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)

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 Q _{he}	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
η_s	149 %	114 %
Prated	9.00 kW	7.00 kW
SCOP	3.79	2.93
T _{biv}	-7 °C	-7 °C
TOL	-20 °C	-20 °C
P _{dh} T _j = -7°C	5.50 kW	4.50 kW
COP T _j = -7°C	3.03	2.31
C _{dh} T _j = -7 °C	1.000	1.000
P _{dh} T _j = +2°C	3.40 kW	3.10 kW
COP T _j = +2°C	5.25	4.12
C _{dh} T _j = +2 °C	1.000	0.960
P _{dh} T _j = +7°C	2.90 kW	2.60 kW
COP T _j = +7°C	7.17	5.11
C _{dh} T _j = +7 °C	0.900	0.950
P _{dh} T _j = 12°C	3.50 kW	3.30 kW
COP T _j = 12°C	9.29	7.53
C _{dh} T _j = +12 °C	0.900	0.950
P _{dh} T _j = T _{biv}	5.50 kW	4.50 kW
COP T _j = T _{biv}	3.03	2.31
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.00 kW	3.50 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.18	1.30
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}		
WTOL	60 °C	60 °C
P _{off}	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 Q _{he}	5847 kWh	5888 kWh
P _{dh} T _j = -15°C (if TOL		

COP Tj = -15°C (if TOL

Cd_h 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
η _s	263 %	176 %
Prated	10.00 kW	8.00 kW
SCOP	6.66	4.48
T _{biv}	2 °C	2 °C
TOL	2 °C	2 °C
P _d h Tj = +2°C	9.70 kW	9.10 kW
COP Tj = +2°C	3.58	2.48
Cd _h Tj = +2 °C	1.000	0.990
P _d h Tj = +7°C	6.60 kW	5.10 kW
COP Tj = +7°C	5.89	3.67
Cd _h Tj = +7 °C	1.000	1.000
P _d h Tj = 12°C	3.40 kW	3.00 kW
COP Tj = 12°C	8.35	6.00
Cd _h Tj = +12 °C	0.900	0.950
P _d h Tj = T _{biv}	9.70 kW	9.10 kW
COP Tj = T _{biv}	3.58	2.48
P _d h Tj = TOL or P _d h Tj = T _{designh} if TOL < T _{designh}	9.70 kW	9.10 kW
COP Tj = TOL or COP Tj = T _{designh} if TOL < T _{designh}	3.58	2.48
Cd _h Tj = TOL or P _d h Tj = T _{designh} if TOL < T _{designh}		
WTOL	60 °C	60 °C
P _{off}	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 Q _{he}	2005 kWh	2385 kWh