

Subtype Bosch Compress 3000 AWS-4/6

Certificate Holder	Bosch Thermotechnik GmbH
Address	Junkersstraße 20 - 24
ZIP	73249
City	Wernau
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Bosch Compress 3000 AWS-4/6
Registration number	011-1W0133
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	1.6 kg
Certification Date	18.07.2017

Model Bosch Compress 3000 AWS-6 E

Model name	Bosch Compress 3000 AWS-6 E
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

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	3.47 kW	7.62 kW
El input	1.96 kW	3.46 kW
COP	1.77	2.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	121 %
Prated	6.80 kW	5.31 kW
SCOP	4.24	3.10
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.92 kW	4.78 kW
COP Tj = -7°C	2.64	1.90
Cdh Tj = -7 °C	0.992	0.993
Pdh Tj = +2°C	3.58 kW	2.80 kW
COP Tj = +2°C	4.22	3.11

Cdh Tj = +2 °C	0.980	0.981
Pdh Tj = +7°C	3.49 kW	3.16 kW
COP Tj = +7°C	5.51	3.96
Cdh Tj = +7 °C	0.973	0.979
Pdh Tj = 12°C	3.91 kW	3.81 kW
COP Tj = 12°C	6.40	5.22
Cdh Tj = +12 °C	0.972	0.977
Pdh Tj = Tbiv	6.80 kW	5.31 kW
COP Tj = Tbiv	2.54	1.54
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3311 kWh	3535 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	141 %	109 %
Prated	7.30 kW	6.80 kW
SCOP	3.59	2.80
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.12 kW
COP Tj = -7°C	3.29	2.37
Cdh Tj = -7 °C	0.987	0.990
Pdh Tj = +2°C	3.00 kW	2.73 kW
COP Tj = +2°C	4.74	3.55
Cdh Tj = +2 °C	0.973	0.978
Pdh Tj = +7°C	3.47 kW	3.26 kW
COP Tj = +7°C	5.56	4.38
Cdh Tj = +7 °C	0.973	0.977
Pdh Tj = 12°C	4.03 kW	3.87 kW

COP Tj = 12°C	6.74	5.47
Cdh Tj = +12 °C	0.972	0.976
Pdh Tj = Tbiv	6.00 kW	5.55 kW
COP Tj = Tbiv	2.43	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.30 kW	6.80 kW
Annual energy consumption Qhe	5007 kWh	5992 kWh
Pdh Tj = -15°C (if TOL)	6.00	5.55
COP Tj = -15°C (if TOL)	2.43	1.86
Cdh Tj = -15 °C	0.993	0.994

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	215 %	148 %
Prated	6.39 kW	5.81 kW
SCOP	5.45	3.77
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.39 kW	5.81 kW
COP Tj = +2°C	3.10	2.02
Cdh Tj = +2 °C	0.992	0.994
Pdh Tj = +7°C	4.22 kW	3.72 kW
COP Tj = +7°C	5.21	3.36
Cdh Tj = +7 °C	0.979	0.985
Pdh Tj = 12°C	4.01 kW	3.72 kW
COP Tj = 12°C	6.57	4.84
Cdh Tj = +12 °C	0.972	0.978
Pdh Tj = Tbiv	6.39 kW	5.81 kW
COP Tj = Tbiv	3.10	2.02

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.39 kW	5.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1566 kWh	2058 kWh

Model Bosch Compress 3000 AWS-6 B

Model name	Bosch Compress 3000 AWS-6 B
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

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	3.47 kW	7.62 kW
El input	1.96 kW	3.46 kW
COP	1.77	2.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	121 %
Prated	6.80 kW	5.31 kW
SCOP	4.24	3.10
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.92 kW	4.78 kW
COP Tj = -7°C	2.64	1.90
Cdh Tj = -7 °C	0.992	0.993
Pdh Tj = +2°C	3.58 kW	2.80 kW
COP Tj = +2°C	4.22	3.11

Cdh Tj = +2 °C	0.980	0.981
Pdh Tj = +7°C	3.49 kW	3.16 kW
COP Tj = +7°C	5.51	3.96
Cdh Tj = +7 °C	0.973	0.979
Pdh Tj = 12°C	3.91 kW	3.81 kW
COP Tj = 12°C	6.40	5.22
Cdh Tj = +12 °C	0.972	0.977
Pdh Tj = Tbiv	6.80 kW	5.31 kW
COP Tj = Tbiv	2.54	1.54
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	5.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.54	1.54
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.994	0.995
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3311 kWh	3535 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	141 %	109 %
Prated	7.30 kW	6.80 kW
SCOP	3.59	2.80
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.12 kW
COP Tj = -7°C	3.29	2.37
Cdh Tj = -7 °C	0.987	0.990
Pdh Tj = +2°C	3.00 kW	2.73 kW
COP Tj = +2°C	4.74	3.55
Cdh Tj = +2 °C	0.973	0.978
Pdh Tj = +7°C	3.47 kW	3.26 kW
COP Tj = +7°C	5.56	4.38
Cdh Tj = +7 °C	0.973	0.977
Pdh Tj = 12°C	4.03 kW	3.87 kW

COP Tj = 12°C	6.74	5.47
Cdh Tj = +12 °C	0.972	0.976
Pdh Tj = Tbiv	6.00 kW	5.55 kW
COP Tj = Tbiv	2.43	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5007 kWh	5992 kWh
Pdh Tj = -15°C (if TOL	6.00	5.55
COP Tj = -15°C (if TOL	2.43	1.86
Cdh Tj = -15 °C	0.993	0.994

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	215 %	148 %
Prated	6.39 kW	5.81 kW
SCOP	5.45	3.77
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.39 kW	5.81 kW
COP Tj = +2°C	3.10	2.02
Cdh Tj = +2 °C	0.992	0.994
Pdh Tj = +7°C	4.22 kW	3.72 kW
COP Tj = +7°C	5.21	3.36
Cdh Tj = +7 °C	0.979	0.985
Pdh Tj = 12°C	4.01 kW	3.72 kW
COP Tj = 12°C	6.57	4.84
Cdh Tj = +12 °C	0.972	0.978
Pdh Tj = Tbiv	6.39 kW	5.81 kW
COP Tj = Tbiv	3.10	2.02

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.39 kW	5.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1566 kWh	2058 kWh

Model Bosch Compress 3000 AWS-6 M

Model name	Bosch Compress 3000 AWS-6 M
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	94 %
COP	2.22
Heating up time	02:11 h:min
Standby power input	58.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	254 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	72 %
COP	1.64
Heating up time	02:43 h:min
Standby power input	109.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	113 %
COP	2.65
Heating up time	01:44 h:min
Standby power input	51.0 W
Reference hot water temperature	51.9 °C
Mixed water at 40°C	252 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	3.47 kW	7.62 kW
El input	1.96 kW	3.46 kW
COP	1.77	2.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	121 %
P _{rated}	6.80 kW	5.31 kW
SCOP	4.24	3.10
T _{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
P _d h T _j = -7°C	5.92 kW	4.78 kW
COP T _j = -7°C	2.64	1.90
C _d h T _j = -7 °C	0.992	0.993
P _d h T _j = +2°C	3.58 kW	2.80 kW
COP T _j = +2°C	4.22	3.11
C _d h T _j = +2 °C	0.980	0.981
P _d h T _j = +7°C	3.49 kW	3.16 kW
COP T _j = +7°C	5.51	3.96
C _d h T _j = +7 °C	0.973	0.979
P _d h T _j = 12°C	3.91 kW	3.81 kW
COP T _j = 12°C	6.40	5.22
C _d h T _j = +12 °C	0.972	0.977
P _d h T _j = T _{biv}	6.80 kW	5.31 kW
COP T _j = T _{biv}	2.54	1.54
P _d h T _j = TOL or P _d h T _j = T _{designh} if TOL < T _{designh}	6.80 kW	5.31 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.54	1.54
C _d h T _j = TOL or P _d h T _j = T _{designh} if TOL < T _{designh}	0.994	0.995
WTOL	57 °C	57 °C
P _{off}	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W

PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3311 kWh	3535 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	141 %	109 %
Prated	7.30 kW	6.80 kW
SCOP	3.59	2.80
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.12 kW
COP Tj = -7°C	3.29	2.37
Cdh Tj = -7 °C	0.987	0.990
Pdh Tj = +2°C	3.00 kW	2.73 kW
COP Tj = +2°C	4.74	3.55
Cdh Tj = +2 °C	0.973	0.978
Pdh Tj = +7°C	3.47 kW	3.26 kW
COP Tj = +7°C	5.56	4.38
Cdh Tj = +7 °C	0.973	0.977
Pdh Tj = 12°C	4.03 kW	3.87 kW
COP Tj = 12°C	6.74	5.47
Cdh Tj = +12 °C	0.972	0.976
Pdh Tj = Tbiv	6.00 kW	5.55 kW
COP Tj = Tbiv	2.43	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.30 kW	6.80 kW
Annual energy consumption Qhe	5007 kWh	5992 kWh

Pdh Tj = -15°C (if TOL)	6.00	1.86
COP Tj = -15°C (if TOL)	2.43	1.86
Cdh Tj = -15 °C	0.993	0.994

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	215 %	148 %
Prated	6.39 kW	5.81 kW
SCOP	5.45	3.77
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.39 kW	5.81 kW
COP Tj = +2°C	3.10	2.02
Cdh Tj = +2 °C	0.992	0.994
Pdh Tj = +7°C	4.22 kW	3.72 kW
COP Tj = +7°C	5.21	3.36
Cdh Tj = +7 °C	0.979	0.985
Pdh Tj = 12°C	4.01 kW	3.72 kW
COP Tj = 12°C	6.57	4.84
Cdh Tj = +12 °C	0.972	0.978
Pdh Tj = Tbiv	6.39 kW	5.81 kW
COP Tj = Tbiv	3.10	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.39 kW	5.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1566 kWh	2058 kWh

Model Bosch Compress 3000 AWS-6 MS

Model name	Bosch Compress 3000 AWS-6 MS
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	87 %
COP	2.04
Heating up time	02:08 h:min
Standby power input	62.2 W
Reference hot water temperature	51.1 °C
Mixed water at 40°C	238 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	70 %
COP	1.61
Heating up time	01:56 h:min
Standby power input	111.2 W
Reference hot water temperature	50.5 °C
Mixed water at 40°C	244 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	100 %
COP	2.34
Heating up time	01:42 h:min
Standby power input	63.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	247 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	3.47 kW	7.62 kW
El input	1.96 kW	3.46 kW
COP	1.77	2.20

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	167 %	121 %
P _{rated}	6.80 kW	5.31 kW
SCOP	4.24	3.10
T _{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
P _d h T _j = -7°C	5.92 kW	4.78 kW
COP T _j = -7°C	2.64	1.90
C _d h T _j = -7 °C	0.992	0.993
P _d h T _j = +2°C	3.58 kW	2.80 kW
COP T _j = +2°C	4.22	3.11
C _d h T _j = +2 °C	0.980	0.981
P _d h T _j = +7°C	3.49 kW	3.16 kW
COP T _j = +7°C	5.51	3.96
C _d h T _j = +7 °C	0.973	0.979
P _d h T _j = 12°C	3.91 kW	3.81 kW
COP T _j = 12°C	6.40	5.22
C _d h T _j = +12 °C	0.972	0.977
P _d h T _j = T _{biv}	6.80 kW	5.31 kW
COP T _j = T _{biv}	2.54	1.54
P _d h T _j = TOL or P _d h T _j = T _{designh} if TOL < T _{designh}	6.80 kW	5.31 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.54	1.54
C _d h T _j = TOL or P _d h T _j = T _{designh} if TOL < T _{designh}	0.994	0.995
WTOL	57 °C	57 °C
P _{off}	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W

PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3311 kWh	3535 kWh
EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature
η_s	141 %	109 %
Prated	7.30 kW	6.80 kW
SCOP	3.59	2.80
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	4.12 kW
COP Tj = -7°C	3.29	2.37
Cdh Tj = -7 °C	0.987	0.990
Pdh Tj = +2°C	3.00 kW	2.73 kW
COP Tj = +2°C	4.74	3.55
Cdh Tj = +2 °C	0.973	0.978
Pdh Tj = +7°C	3.47 kW	3.26 kW
COP Tj = +7°C	5.56	4.38
Cdh Tj = +7 °C	0.973	0.977
Pdh Tj = 12°C	4.03 kW	3.87 kW
COP Tj = 12°C	6.74	5.47
Cdh Tj = +12 °C	0.972	0.976
Pdh Tj = Tbiv	6.00 kW	5.55 kW
COP Tj = Tbiv	2.43	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.00 kW	5.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.30 kW	6.80 kW
Annual energy consumption Qhe	5007 kWh	5992 kWh

Pdh Tj = -15°C (if TOL)	6.00	5.55
COP Tj = -15°C (if TOL)	2.43	1.86
Cdh Tj = -15 °C	0.993	0.994

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	215 %	148 %
Prated	6.39 kW	5.81 kW
SCOP	5.45	3.77
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.39 kW	5.81 kW
COP Tj = +2°C	3.10	2.02
Cdh Tj = +2 °C	0.992	0.994
Pdh Tj = +7°C	4.22 kW	3.72 kW
COP Tj = +7°C	5.21	3.36
Cdh Tj = +7 °C	0.979	0.985
Pdh Tj = 12°C	4.01 kW	3.72 kW
COP Tj = 12°C	6.57	4.84
Cdh Tj = +12 °C	0.972	0.978
Pdh Tj = Tbiv	6.39 kW	5.81 kW
COP Tj = Tbiv	3.10	2.02
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.39 kW	5.81 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.10	2.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1566 kWh	2058 kWh

Model Bosch Compress 3000 AWS-4 E

Model name	Bosch Compress 3000 AWS-4 E
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

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	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
COP	1.77	2.27

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	122 %
Prated	5.84 kW	4.78 kW
SCOP	4.46	3.12
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.19 kW	4.20 kW
COP Tj = -7°C	3.04	1.91
Cdh Tj = -7 °C	0.990	0.992
Pdh Tj = +2°C	3.01 kW	2.52 kW
COP Tj = +2°C	4.53	3.09

Cdh Tj = +2 °C	0.974	0.979
Pdh Tj = +7°C	3.49 kW	3.16 kW
COP Tj = +7°C	5.57	4.08
Cdh Tj = +7 °C	0.973	0.978
Pdh Tj = 12°C	3.49 kW	3.81 kW
COP Tj = 12°C	5.57	5.35
Cdh Tj = +12 °C	0.973	0.976
Pdh Tj = Tbiv	5.84 kW	4.77 kW
COP Tj = Tbiv	2.68	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.84 kW	4.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2708 kWh	3163 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	145 %	106 %
Prated	6.74 kW	5.44 kW
SCOP	3.69	2.72
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.08 kW	3.27 kW
COP Tj = -7°C	3.44	2.28
Cdh Tj = -7 °C	0.986	0.988
Pdh Tj = +2°C	3.08 kW	2.81 kW
COP Tj = +2°C	4.79	3.40
Cdh Tj = +2 °C	0.974	0.979
Pdh Tj = +7°C	3.51 kW	3.29 kW
COP Tj = +7°C	5.72	4.35
Cdh Tj = +7 °C	0.972	0.978
Pdh Tj = 12°C	4.01 kW	3.83 kW

COP Tj = 12°C	6.62	5.61
Cdh Tj = +12 °C	0.972	0.975
Pdh Tj = Tbiv	5.50 kW	4.44 kW
COP Tj = Tbiv	2.81	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	4.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.992
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.74 kW	5.44 kW
Annual energy consumption Qhe	4500 kWh	4933 kWh
Pdh Tj = -15°C (if TOL)	5.50	4.43
COP Tj = -15°C (if TOL)	2.81	1.99
Cdh Tj = -15 °C	0.991	0.992

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	215 %	149 %
Prated	6.17 kW	4.95 kW
SCOP	5.46	3.81
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.17 kW	4.94 kW
COP Tj = +2°C	3.53	2.07
Cdh Tj = +2 °C	0.990	0.993
Pdh Tj = +7°C	3.96 kW	3.16 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	3.99 kW	3.73 kW
COP Tj = 12°C	6.59	4.99
Cdh Tj = +12 °C	0.972	0.977
Pdh Tj = Tbiv	6.17 kW	4.94 kW
COP Tj = Tbiv	3.53	2.07

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.17 kW	4.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.53	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.993
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1510 kWh	1737 kWh

Model Bosch Compress 3000 AWS-4 B

Model name	Bosch Compress 3000 AWS-4 B
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

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	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
COP	1.77	2.27

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	122 %
Prated	5.84 kW	4.78 kW
SCOP	4.46	3.12
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.19 kW	4.20 kW
COP Tj = -7°C	3.04	1.91
Cdh Tj = -7 °C	0.990	0.992
Pdh Tj = +2°C	3.01 kW	2.52 kW
COP Tj = +2°C	4.53	3.09

Cdh Tj = +2 °C	0.974	0.979
Pdh Tj = +7°C	3.49 kW	3.16 kW
COP Tj = +7°C	5.57	4.08
Cdh Tj = +7 °C	0.973	0.978
Pdh Tj = 12°C	3.49 kW	3.81 kW
COP Tj = 12°C	5.57	5.35
Cdh Tj = +12 °C	0.973	0.976
Pdh Tj = Tbiv	5.84 kW	4.77 kW
COP Tj = Tbiv	2.68	1.72
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.84 kW	4.77 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.72
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.992	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2708 kWh	3163 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	145 %	106 %
Prated	6.74 kW	5.44 kW
SCOP	3.69	2.72
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.08 kW	3.27 kW
COP Tj = -7°C	3.44	2.28
Cdh Tj = -7 °C	0.986	0.988
Pdh Tj = +2°C	3.08 kW	2.81 kW
COP Tj = +2°C	4.79	3.40
Cdh Tj = +2 °C	0.974	0.979
Pdh Tj = +7°C	3.51 kW	3.29 kW
COP Tj = +7°C	5.72	4.35
Cdh Tj = +7 °C	0.972	0.978
Pdh Tj = 12°C	4.01 kW	3.83 kW

COP Tj = 12°C	6.62	5.61
Cdh Tj = +12 °C	0.972	0.975
Pdh Tj = Tbiv	5.50 kW	4.44 kW
COP Tj = Tbiv	2.81	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	4.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.992
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4500 kWh	4933 kWh
Pdh Tj = -15°C (if TOL)	5.50	4.43
COP Tj = -15°C (if TOL)	2.81	1.99
Cdh Tj = -15 °C	0.991	0.992

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	29 dB(A)	29 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	215 %	149 %
Prated	6.17 kW	4.95 kW
SCOP	5.46	3.81
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.17 kW	4.94 kW
COP Tj = +2°C	3.53	2.07
Cdh Tj = +2 °C	0.990	0.993
Pdh Tj = +7°C	3.96 kW	3.16 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	3.99 kW	3.73 kW
COP Tj = 12°C	6.59	4.99
Cdh Tj = +12 °C	0.972	0.977
Pdh Tj = Tbiv	6.17 kW	4.94 kW
COP Tj = Tbiv	3.53	2.07

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.17 kW	4.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.53	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.993
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input		
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1510 kWh	1737 kWh

Model Bosch Compress 3000 AWS-4 M

Model name	Bosch Compress 3000 AWS-4 M
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	94 %
COP	2.22
Heating up time	02:11 h:min
Standby power input	58.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	254 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	72 %
COP	1.64
Heating up time	02:43 h:min
Standby power input	109.0 W
Reference hot water temperature	52.1 °C
Mixed water at 40°C	250 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	113 %
COP	2.65
Heating up time	01:44 h:min
Standby power input	51.0 W
Reference hot water temperature	51.9 °C
Mixed water at 40°C	252 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	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
COP	1.77	2.27

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	122 %
P _{rated}	5.84 kW	4.78 kW
SCOP	4.46	3.12
T _{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
P _d h T _j = -7°C	5.19 kW	4.20 kW
COP T _j = -7°C	3.04	1.91
C _d h T _j = -7 °C	0.990	0.992
P _d h T _j = +2°C	3.01 kW	2.52 kW
COP T _j = +2°C	4.53	3.09
C _d h T _j = +2 °C	0.974	0.979
P _d h T _j = +7°C	3.49 kW	3.16 kW
COP T _j = +7°C	5.57	4.08
C _d h T _j = +7 °C	0.973	0.978
P _d h T _j = 12°C	3.49 kW	3.81 kW
COP T _j = 12°C	5.57	5.35
C _d h T _j = +12 °C	0.973	0.976
P _d h T _j = T _{biv}	5.84 kW	4.77 kW
COP T _j = T _{biv}	2.68	1.72
P _d h T _j = TOL or P _d h T _j = T _{designh} if TOL < T _{designh}	5.84 kW	4.77 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.68	1.72
C _d h T _j = TOL or P _d h T _j = T _{designh} if TOL < T _{designh}	0.992	0.994
WTOL	57 °C	57 °C
P _{off}	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W

PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2708 kWh	3163 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	145 %	106 %
Prated	6.74 kW	5.44 kW
SCOP	3.69	2.72
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.08 kW	3.27 kW
COP Tj = -7°C	3.44	2.28
Cdh Tj = -7 °C	0.986	0.988
Pdh Tj = +2°C	3.08 kW	2.81 kW
COP Tj = +2°C	4.79	3.40
Cdh Tj = +2 °C	0.974	0.979
Pdh Tj = +7°C	3.51 kW	3.29 kW
COP Tj = +7°C	5.72	4.35
Cdh Tj = +7 °C	0.972	0.978
Pdh Tj = 12°C	4.01 kW	3.83 kW
COP Tj = 12°C	6.62	5.61
Cdh Tj = +12 °C	0.972	0.975
Pdh Tj = Tbiv	5.50 kW	4.44 kW
COP Tj = Tbiv	2.81	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	4.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.992
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.74 kW	5.44 kW
Annual energy consumption Qhe	4500 kWh	4933 kWh

Pdh Tj = -15°C (if TOL)	5.50	1.99
COP Tj = -15°C (if TOL)	2.81	1.99
Cdh Tj = -15 °C	0.991	0.992

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	215 %	149 %
Prated	6.17 kW	4.95 kW
SCOP	5.46	3.81
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.17 kW	4.94 kW
COP Tj = +2°C	3.53	2.07
Cdh Tj = +2 °C	0.990	0.993
Pdh Tj = +7°C	3.96 kW	3.16 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	3.99 kW	3.73 kW
COP Tj = 12°C	6.59	4.99
Cdh Tj = +12 °C	0.972	0.977
Pdh Tj = Tbiv	6.17 kW	4.94 kW
COP Tj = Tbiv	3.53	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.17 kW	4.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.53	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.993
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1510 kWh	1737 kWh

Model Bosch Compress 3000 AWS-4 MS

Model name	Bosch Compress 3000 AWS-4 MS
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Heat Source	Outdoor Air
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	L
Efficiency η_{DHW}	87 %
COP	2.04
Heating up time	02:08 h:min
Standby power input	62.2 W
Reference hot water temperature	51.1 °C
Mixed water at 40°C	238 l

EN 16147 | Colder Climate

Declared load profile	L
Efficiency η_{DHW}	70 %
COP	1.61
Heating up time	01:56 h:min
Standby power input	111.2 W
Reference hot water temperature	50.5 °C
Mixed water at 40°C	244 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	100 %
COP	2.34
Heating up time	01:42 h:min
Standby power input	63.0 W
Reference hot water temperature	50.9 °C
Mixed water at 40°C	247 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	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
COP	1.77	2.27

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	175 %	122 %
P _{rated}	5.84 kW	4.78 kW
SCOP	4.46	3.12
T _{biv}	-10 °C	-10 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	5.19 kW	4.20 kW
COP T _j = -7°C	3.04	1.91
C _{dh} T _j = -7 °C	0.990	0.992
P _{dh} T _j = +2°C	3.01 kW	2.52 kW
COP T _j = +2°C	4.53	3.09
C _{dh} T _j = +2 °C	0.974	0.979
P _{dh} T _j = +7°C	3.49 kW	3.16 kW
COP T _j = +7°C	5.57	4.08
C _{dh} T _j = +7 °C	0.973	0.978
P _{dh} T _j = 12°C	3.49 kW	3.81 kW
COP T _j = 12°C	5.57	5.35
C _{dh} T _j = +12 °C	0.973	0.976
P _{dh} T _j = T _{biv}	5.84 kW	4.77 kW
COP T _j = T _{biv}	2.68	1.72
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.84 kW	4.77 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.68	1.72
C _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	0.992	0.994
WTOL	57 °C	57 °C
P _{off}	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W

PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2708 kWh	3163 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	145 %	106 %
Prated	6.74 kW	5.44 kW
SCOP	3.69	2.72
Tbiv	-15 °C	-15 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.08 kW	3.27 kW
COP Tj = -7°C	3.44	2.28
Cdh Tj = -7 °C	0.986	0.988
Pdh Tj = +2°C	3.08 kW	2.81 kW
COP Tj = +2°C	4.79	3.40
Cdh Tj = +2 °C	0.974	0.979
Pdh Tj = +7°C	3.51 kW	3.29 kW
COP Tj = +7°C	5.72	4.35
Cdh Tj = +7 °C	0.972	0.978
Pdh Tj = 12°C	4.01 kW	3.83 kW
COP Tj = 12°C	6.62	5.61
Cdh Tj = +12 °C	0.972	0.975
Pdh Tj = Tbiv	5.50 kW	4.44 kW
COP Tj = Tbiv	2.81	1.99
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	4.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.992
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.74 kW	5.44 kW
Annual energy consumption Qhe	4500 kWh	4933 kWh

Pdh Tj = -15°C (if TOL)	5.50	4.43
COP Tj = -15°C (if TOL)	2.81	1.99
Cdh Tj = -15 °C	0.991	0.992

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	38 dB(A)	38 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	215 %	149 %
Prated	6.17 kW	4.95 kW
SCOP	5.46	3.81
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	6.17 kW	4.94 kW
COP Tj = +2°C	3.53	2.07
Cdh Tj = +2 °C	0.990	0.993
Pdh Tj = +7°C	3.96 kW	3.16 kW
COP Tj = +7°C	5.11	3.36
Cdh Tj = +7 °C	0.978	0.982
Pdh Tj = 12°C	3.99 kW	3.73 kW
COP Tj = 12°C	6.59	4.99
Cdh Tj = +12 °C	0.972	0.977
Pdh Tj = Tbiv	6.17 kW	4.94 kW
COP Tj = Tbiv	3.53	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.17 kW	4.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.53	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.993
WTOL	57 °C	57 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1510 kWh	1737 kWh