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Summary of	Bosch Compress 3000 AWS-4/6	Reg. No.	011-1W0133
Certificate Holder			
Name	Bosch Thermotechnik GmbH		
Address	Junkersstraße 20 - 24	Zip	73249
City	Wernau	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Bosch Compress 3000 AWS-4/6		
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

Configure model	
Model name	Bosch Compress 3000 AWS-6 E
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + 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	3.47 kW	7.62 kW
El input	1.96 kW	3.46 kW
COP	1.77	2.20

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

Average Climate

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EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Colder Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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<-20°C)	6.00	5.55
COP Tj = -15°C (if TOL<-20°C)	2.43	1.86
Cdh Tj = -15 °C	0.993	0.994

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	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

	Low temperature	Medium temperature
η_s	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Configure model	
Model name	Bosch Compress 3000 AWS-6 B
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + 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	3.47 kW	7.62 kW
El input	1.96 kW	3.46 kW
COP	1.77	2.20

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

Average Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3311 kWh	3535 kWh

Colder Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5007 kWh	5992 kWh
Pdh Tj = -15°C (if TOL<-20°C)	6.00	5.55
COP Tj = -15°C (if TOL<-20°C)	2.43	1.86
Cdh Tj = -15 °C	0.993	0.994

Warmer Climate

EN 12102-1

	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

	Low temperature	Medium temperature
η_s	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1566 kWh	2058 kWh

Model: Bosch Compress 3000 AWS-6 M

Configure model	
Model name	Bosch Compress 3000 AWS-6 M
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + 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	3.47 kW	7.62 kW
El input	1.96 kW	3.46 kW
COP	1.77	2.20

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

Average Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Colder Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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<-20°C)	6.00	1.86
COP Tj = -15°C (if TOL<-20°C)	2.43	1.86
Cdh Tj = -15 °C	0.993	0.994

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	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

	Low temperature	Medium temperature
η_s	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
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

Colder Climate

EN 16147	
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

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
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

Model: Bosch Compress 3000 AWS-6 MS

Configure model	
Model name	Bosch Compress 3000 AWS-6 MS
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + 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	3.47 kW	7.62 kW
El input	1.96 kW	3.46 kW
COP	1.77	2.20

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

Average Climate

EN 12102-1

	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

	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
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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

Colder Climate

EN 12102-1

	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

	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
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Cdh Tj = +7 °C	0.973	0.977

This information was generated by the HP KEYMARK database on 18 Mar 2022

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<-20°C)	6.00	5.55
COP Tj = -15°C (if TOL<-20°C)	2.43	1.86
Cdh Tj = -15 °C	0.993	0.994

Warmer Climate

EN 12102-1

	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

	Low temperature	Medium temperature
η_s	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
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

Colder Climate

EN 16147	
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

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
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

Model: Bosch Compress 3000 AWS-4 E

Configure model	
Model name	Bosch Compress 3000 AWS-4 E
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + 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	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
COP	1.77	2.27

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

Average Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Colder Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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<-20°C)	5.50	4.43
COP Tj = -15°C (if TOL<-20°C)	2.81	1.99
Cdh Tj = -15 °C	0.991	0.992

Warmer Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Configure model	
Model name	Bosch Compress 3000 AWS-4 B
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Colder Climate + 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	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
COP	1.77	2.27

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

Average Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2708 kWh	3163 kWh

Colder Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4500 kWh	4933 kWh
Pdh Tj = -15°C (if TOL<-20°C)	5.50	4.43
COP Tj = -15°C (if TOL<-20°C)	2.81	1.99
Cdh Tj = -15 °C	0.991	0.992

Warmer Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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	n/a	
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1510 kWh	1737 kWh

Model: Bosch Compress 3000 AWS-4 M

Configure model	
Model name	Bosch Compress 3000 AWS-4 M
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + 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	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
COP	1.77	2.27

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

Average Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Colder Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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<-20°C)	5.50	1.99
COP Tj = -15°C (if TOL<-20°C)	2.81	1.99
Cdh Tj = -15 °C	0.991	0.992

Warmer Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Colder Climate

EN 16147	
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

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
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

Model: Bosch Compress 3000 AWS-4 MS

Configure model	
Model name	Bosch Compress 3000 AWS-4 MS
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Colder Climate + 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	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
COP	1.77	2.27

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

Average Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Colder Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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<-20°C)	5.50	4.43
COP Tj = -15°C (if TOL<-20°C)	2.81	1.99
Cdh Tj = -15 °C	0.991	0.992

Warmer Climate

EN 12102-1

	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

	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

This information was generated by the HP KEYMARK database on 18 Mar 2022

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

Domestic Hot Water (DHW)

Average Climate

EN 16147	
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

Colder Climate

EN 16147	
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

Warmer Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147	
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