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#### This information was generated by the HP KEYMARK database on 22 Jun 2022

#### **Login**

Summary of	Bosch Compress 3000 AWS-4/6	Reg. No.	011-1W0133		
Certificate Holder	Certificate Holder				
Name	Bosch Thermotechnik GmbH				
Address	Junkersstraße 20 - 24	Zip	73249		
City	Wernau	Country	Germany		
Certification Body	DIN CERTCO Gesellschaft für Konforn	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH			
Subtype title	Bosch Compress 3000 AWS-4/6	Bosch Compress 3000 AWS-4/6			
Heat Pump Type	Outdoor Air/Water				
Refrigerant	R410A				
Mass of Refrigerant	1.6 kg	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	
СОР	1.77	2.20	

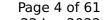
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### 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
$\eta_{s}$	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 = $+7^{\circ}$ C	4.22 kW	3.72 kW
$COP Tj = +7^{\circ}C$	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





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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

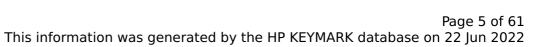
### Colder Climate

Annual energy consumption Qhe

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)	

1566 kWh

2058 kWh



$\bigcirc$	
	CEN heat pump
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	Low temperature	Medium temperature
$\eta_{s}$	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 = $-7^{\circ}$ C	4.40 kW	4.12 kW
$COP Tj = -7^{\circ}C$	3.29	2.37
Cdh Tj = -7 °C	0.987	0.990
Pdh Tj = $+2$ °C	3.00 kW	2.73 kW
$COP Tj = +2^{\circ}C$	4.74	3.55
Cdh Tj = +2 °C	0.973	0.978
Pdh Tj = $+7^{\circ}$ C	3.47 kW	3.26 kW
$COP Tj = +7^{\circ}C$	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

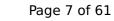




COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.30 kW	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

# **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)





	Low temperature	Medium temperature
ης	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 = $-7^{\circ}$ C	5.92 kW	4.78 kW
$COP Tj = -7^{\circ}C$	2.64	1.90
Cdh Tj = -7 °C	0.992	0.993
Pdh Tj = $+2$ °C	3.58 kW	2.80 kW
$COP Tj = +2^{\circ}C$	4.22	3.11
Cdh Tj = +2 °C	0.980	0.981
Pdh Tj = $+7^{\circ}$ C	3.49 kW	3.16 kW
$COPTj = +7^{\circ}C$	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
РТО	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



# **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	ate Zone Colder Climate + Warmer Climate	
eversibility Yes		
Cooling mode application (optional) n/a		

General Data		
Power supply 1x230V 50Hz		

# Heating

COP

1.77

EN 14511-2			
Low temperature Medium temperature			
Heat output	3.47 kW	7.62 kW	
El input 1.96 kW 3.46 kW			

2.20

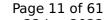
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

### 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 tempe			
$\eta_{s}$	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	





6.39 kW	5.81 kW
3.10	2.02
6.39 kW	5.81 kW
3.10	2.02
0.992	0.994
57 °C	57 °C
17 W	17 W
17 W	17 W
17 W	17 W
16 W	16 W
n/a	
0.00 kW	0.00 kW
1566 kWh	2058 kWh
	3.10 6.39 kW 3.10 0.992 57 °C 17 W 17 W 17 W 16 W n/a 0.00 kW

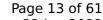
### Colder Climate

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)	



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	Low temperature	Medium temperature
ης	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
$COPTj = -7^{\circ}C$	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
$COPTj = +7^{\circ}C$	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	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

# **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)



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	Low temperature	Medium temperature
ης	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 = $-7^{\circ}$ C	5.92 kW	4.78 kW
$COP Tj = -7^{\circ}C$	2.64	1.90
Cdh Tj = -7 °C	0.992	0.993
Pdh Tj = $+2$ °C	3.58 kW	2.80 kW
$COP Tj = +2^{\circ}C$	4.22	3.11
Cdh Tj = +2 °C	0.980	0.981
Pdh Tj = $+7^{\circ}$ C	3.49 kW	3.16 kW
$COPTj = +7^{\circ}C$	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
РТО	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

# **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
СОР	1.77	2.20

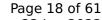
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### 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
$\eta_{s}$	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





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
РТО	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

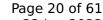
### Colder Climate

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)



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	Low temperature	Medium temperature
$\eta_{s}$	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 = $-7^{\circ}$ C	4.40 kW	4.12 kW
COP Tj = $-7^{\circ}$ C	3.29	2.37
Cdh Tj = -7 °C	0.987	0.990
Pdh Tj = $+2$ °C	3.00 kW	2.73 kW
$COPTj = +2^{\circ}C$	4.74	3.55
Cdh Tj = $+2$ °C	0.973	0.978
Pdh Tj = $+7$ °C	3.47 kW	3.26 kW
$COPTj = +7^{\circ}C$	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
РТО	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

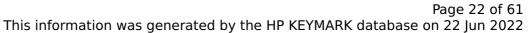
# **Average Climate**

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)



Page 21 of This information was generated by the HP KEYMARK database on 22 Jun 2		
	Low temperature	Medium temperature
$\eta_s$	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
$COP Tj = +2^{\circ}C$	4.22	3.11
Cdh Tj = +2 °C	0.980	0.981
Pdh Tj = $+7$ °C	3.49 kW	3.16 kW
$COP Tj = +7^{\circ}C$	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

CEN heat pump KEYMARK





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
РТО	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

# Domestic Hot Water (DHW)

### Warmer Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	113 %	
СОР	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 I	



### Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	72 %	
СОР	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	

# Average Climate

EN 16147		
Deployed load worfile		
Declared load profile	L	
Efficiency ηDHW	94 %	
СОР	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 I	



# **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
СОР	1.77	2.20

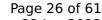
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### 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
$\eta_{s}$	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
	·	





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
РТО	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

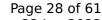
### Colder Climate

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)





	Low temperature	Medium temperature
ης	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
$COPTj = -7^{\circ}C$	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
$COPTj = +7^{\circ}C$	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

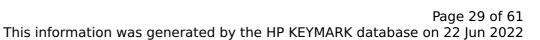




COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.43	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.993	0.994
WTOL	57 °C	57 °C
Poff	17 W	17 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	7.30 kW	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

# **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)





	Low temperature	Medium temperature
$\eta_{S}$	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
$COP Tj = -7^{\circ}C$	2.64	1.90
Cdh Tj = -7 °C	0.992	0.993
Pdh Tj = $+2$ °C	3.58 kW	2.80 kW
$COPTj = +2^{\circ}C$	4.22	3.11
Cdh Tj = +2 °C	0.980	0.981
Pdh Tj = $+7^{\circ}$ C	3.49 kW	3.16 kW
$COPTj = +7^{\circ}C$	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 0.00 kW 0.00 kW

3311 kWh

3535 kWh

### Domestic Hot Water (DHW)

#### Warmer Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

EN 16147	
Declared load profile	L
Efficiency ηDHW	100 %
СОР	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



### Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	70 %
СОР	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

# Average Climate

EN 16147	
Declared load profile	1
	L
Efficiency ηDHW	87 %
СОР	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



# **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	
СОР	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	

### 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
$\eta_{s}$	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

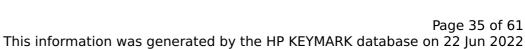




	<u> </u>	
Pdh Tj = Tbiv	6.17 kW	4.94 kW
COP Tj = Tbiv	3.53	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.17 kW	4.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.53	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.993
WTOL	57 °C	57 °C
Poff	17 W	17 W
РТО	17 W	17 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

### 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)	





	Low temperature	Medium temperature
$\eta_{s}$	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 = $-7^{\circ}$ C	4.08 kW	3.27 kW
$COPTj = -7^{\circ}C$	3.44	2.28
Cdh Tj = -7 °C	0.986	0.988
Pdh Tj = $+2$ °C	3.08 kW	2.81 kW
$COP Tj = +2^{\circ}C$	4.79	3.40
Cdh Tj = +2 °C	0.974	0.979
Pdh Tj = $+7^{\circ}$ C	3.51 kW	3.29 kW
$COPTj = +7^{\circ}C$	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

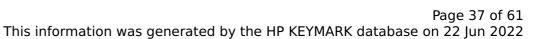




COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.992
WTOL	57 °C	57 °C
Poff	17 W	17 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.74 kW	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

# **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)	





	Low temperature	Medium temperature
$\eta_{s}$	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 = $-7^{\circ}$ C	3.04	1.91
Cdh Tj = -7 °C	0.990	0.992
Pdh Tj = $+2$ °C	3.01 kW	2.52 kW
$COPTj = +2^{\circ}C$	4.53	3.09
Cdh Tj = $+2$ °C	0.974	0.979
Pdh Tj = $+7$ °C	3.49 kW	3.16 kW
$COPTj = +7^{\circ}C$	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



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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
РТО	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

# **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

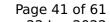
EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
СОР	1.77	2.27

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



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
$\eta_{s}$	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 = $+7^{\circ}$ C	3.96 kW	3.16 kW
$COP Tj = +7^{\circ}C$	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
РТО	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

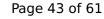
### Colder Climate

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)





	Low temperature	Medium temperature
$\eta_{s}$	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 = $+7^{\circ}$ 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
РТО	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

# **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)	





	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = -7^{\circ}C$	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
$COP Tj = +7^{\circ}C$	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



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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
РТО	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



# **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

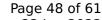
EN 14511-2		
	Low temperature	Medium temperature
Heat output	3.47 kW	6.80 kW
El input	1.96 kW	2.99 kW
СОР	1.77	2.27

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



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
$\eta_{s}$	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

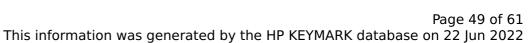




Pdh Tj = Tbiv	6.17 kW	4.94 kW
COP Tj = Tbiv	3.53	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.17 kW	4.94 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.53	2.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.993
WTOL	57 °C	57 °C
Poff	17 W	17 W
РТО	17 W	17 W
PSB	17 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

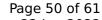
### Colder Climate

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)





	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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





1	
2.81	1.99
0.991	0.992
57 °C	57 °C
17 W	17 W
17 W	17 W
17 W	17 W
16 W	16 W
Electricity	Electricity
6.74 kW	5.44 kW
4500 kWh	4933 kWh
5.50	1.99
2.81	1.99
0.991	0.992
	0.991 57 °C 17 W 17 W 17 W 16 W Electricity 6.74 kW 4500 kWh 5.50 2.81

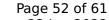
# **Average Climate**

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)	



Page 51 of 61 This information was generated by the HP KEYMARK database on 22 Jun 2022

	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = -7^{\circ}C$	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
$COP Tj = +7^{\circ}C$	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





This information was genera	ted by the HP KEYMAF	RK database on 22 Jun 2022	

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
РТО	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

## Domestic Hot Water (DHW)

EN 16147	
Declared load profile	L
Efficiency ηDHW	113 %
СОР	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 I



### Colder Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	72 %
СОР	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

# Average Climate

EN 16147	
Deployed load worfile	
Declared load profile	L
Efficiency ηDHW	94 %
СОР	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 I

# **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

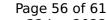
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	3.47 kW	6.80 kW	
El input	1.96 kW	2.99 kW	
СОР	1.77	2.27	

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



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
$\eta_{s}$	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
РТО	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

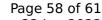
### Colder Climate

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)





	Low temperature	Medium temperature
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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

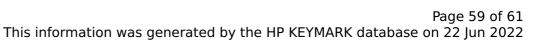




COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.81	1.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.991	0.992
WTOL	57 °C	57 °C
Poff	17 W	17 W
РТО	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	6.74 kW	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

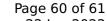
# **Average Climate**

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)





	Low temperature	Medium temperature
$\eta_{s}$	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
РТО	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

# Domestic Hot Water (DHW)

EN 16147		
Declared load profile	L	
Efficiency ηDHW	100 %	
СОР	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 I	



### Colder Climate

EN 16147		
Declared load profile	L	
Efficiency ηDHW	70 %	
СОР	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	

# Average Climate

EN 16147		
Declared load profile	1	
	L	
Efficiency ηDHW	87 %	
СОР	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	