

CERTIFICATE

Certificate holder

Bosch Thermotechnik GmbH

Sophienstr. 30-32 35576 Wetzlar

GERMANY

Production facility

Aveiro, Changwon, Tranas

Product

Air/Water Heat pumps

Type, Model

Bosch Compress 3000 AWS-11, Bosch Compress 3000 AWS-13,

Bosch Compress 3000 AWS-15

Testing basis

DIN EN 14511-1; DIN EN 14511-2; DIN EN 14511-3; DIN EN 14511-4:2013-12

DIN EN 14825:2013-12 DIN EN 12102:2013-10 DIN EN 16147:2011-04

European KEYMARK Scheme Heat Pumps Rev. 2 (2017-03)

Mark of conformity



Registration No.

011-1W0136

Valid until

2027-07-31

Right of use

This certificate entitles the holder to use the mark of conformity shown above in

conjunction with the specified registration number.

See annex for further information.



2017-09-26

Dipl.-Wi.-Ing. (FH) Sören Scholz Head of Certification Body





ANNEX

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Certificate

011-1W0136 dated 2017-09-26

Technical Data

See technical data sheet to the above mentioned registration number at www.dincertco.tuv.com

Testing laboratory/ Inspection body RISE Research Institutes of Sweden AB PO Box 857 501 15 Boras SWEDEN

Test report(s)

4P07069-03 dated 2015-05-05





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Summary of	Bosch Compress 3000 AWS-11/13/15	Reg. No.	011-1W0136
Certificate Holder			
Name	Bosch Thermotechnik GmbH		
Address	Sophienstraße 30-32	Zip	35576
City	Wetzlar	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	RISE Research Institutes of Sweden		
Subtype title	Bosch Compress 3000 AWS-11/13/15		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	HFC-410a		
Mass Of Refrigerant	2.3 kg		
Certification Date	26.09.2017		
Testing basis	n/a		



Model: Bosch Compress 3000 AWS-13 MS

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.21 kW	8.02 kW
El input	2.09 kW	2.96 kW
СОР	4.40	2.70
Indoor water flow rate	1.57 m³/h	0.88 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	153 %	121 %
Prated	11.00 kW	10.00 kW
SCOP	3.90	3.10
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.90 kW	8.40 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.72	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01



This information was dow	vnloaded from the HP KEY	MARK database on 16 Mar 202
Pdh Tj = Tbiv	11.20 kW	9.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	11.20 kW	9.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric

0.00 kW

5949 kWh

0.00 kW

6356 kWh

Domestic Hot Water (DHW)

Supplementary Heater: PSUP

Annual energy consumption Qhe



EN 16147	
Declared load profile	L
Efficiency ηDHW	71 %
COP	1.68
Standby power input	60.0 W
Reference hot water temperature	56.4 °C
Mixed water at 40°C	304
Heating up time	3:20 h:min



Model: Bosch Compress 3000 AWS-13 M

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.21 kW	8.02 kW
El input	2.09 kW	2.96 kW
СОР	4.40	2.70
Indoor water flow rate	1.57 m³/h	0.88 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	153 %	121 %	
Prated	11.00 kW	10.00 kW	
SCOP	3.90	3.10	
Tbiv	-10 °C	-10 °C	
TOL	-15 °C	-15 °C	
Pdh Tj = -7°C	9.90 kW	8.40 kW	
COP Tj = -7°C	2.71	2.11	
Pdh Tj = +2°C	6.00 kW	6.00 kW	
COP Tj = +2°C	3.72	3.11	
Pdh Tj = +7°C	6.50 kW	6.00 kW	
COP Tj = +7°C	5.71	4.31	
Pdh Tj = 12°C	6.50 kW	6.00 kW	
COP Tj = 12°C	5.71	5.01	



Pdh Tj = Tbiv	11.20 kW	9.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	11.20 kW	9.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5949 kWh	6356 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	71 %	
СОР	1.68	
Heating up time	3:20 h:min	
Standby power input	60.0 W	
Reference hot water temperature	56.4 °C	
Mixed water at 40°C	304	



Model: Bosch Compress 3000 AWS-13 B

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.21 kW	8.02 kW
El input	2.09 kW	2.96 kW
СОР	4.40	2.70
Indoor water flow rate	1.57 m³/h	0.88 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	153 %	121 %
Prated	11.00 kW	10.00 kW
SCOP	3.90	3.10
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.90 kW	8.40 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.72	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01



Pdh Tj = Tbiv	11.20 kW	9.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	11.20 kW	9.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5949 kWh	6356 kWh



Model: Bosch Compress 3000 AWS-13 E

General Data	
Power supply	3x400V 50Hz

Heating

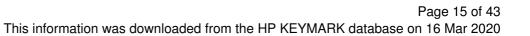
EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.21 kW	8.02 kW
El input	2.09 kW	2.96 kW
СОР	4.40	2.70
Indoor water flow rate	1.57 m³/h	0.88 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	153 %	121 %
Prated	11.00 kW	10.00 kW
SCOP	3.90	3.10
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	9.90 kW	8.40 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.00 kW	6.00 kW
COP Tj = +2°C	3.72	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01





Pdh Tj = Tbiv	11.20 kW	9.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	11.20 kW	9.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5949 kWh	6356 kWh



Model: Bosch Compress 3000 AWS-11 MS

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.60 kW	7.50 kW	
El input	1.95 kW	2.78 kW	
СОР	4.40	2.70	
Indoor water flow rate	1.47 m³/h	0.83 m³/h	

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	152 %	119 %
Prated	10.00 kW	9.00 kW
SCOP	3.88	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	7.50 kW
COP Tj = -7°C	2.71	2.10
Pdh Tj = +2°C	5.90 kW	6.00 kW
COP Tj = +2°C	3.81	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.30
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01



Pdh Tj = Tbiv	10.00 kW	8.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	10.00 kW	8.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5324 kWh	5770 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	71 %	
COP	1.68	
Heating up time	3:20 h:min	
Standby power input	60.0 W	
Reference hot water temperature	56.4 °C	
Mixed water at 40°C	304	



Model: Bosch Compress 3000 AWS-11 M

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	8.60 kW	7.50 kW	
El input	1.95 kW	2.78 kW	
СОР	4.40	2.70	
Indoor water flow rate	1.47 m³/h	0.83 m³/h	

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	152 %	119 %
Prated	10.00 kW	9.00 kW
SCOP	3.88	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	7.50 kW
COP Tj = -7°C	2.71	2.10
Pdh Tj = +2°C	5.90 kW	6.00 kW
COP Tj = +2°C	3.81	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.30
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01



Pdh Tj = Tbiv	10.00 kW	8.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	10.00 kW	8.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5324 kWh	5770 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	L
Efficiency ηDHW	71 %
COP	1.68
Heating up time	3:20 h:min
Standby power input	60.0 W
Reference hot water temperature	56.4 °C
Mixed water at 40°C	304



Model: Bosch Compress 3000 AWS-11 B

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	8.60 kW	7.50 kW
El input	1.95 kW	2.78 kW
СОР	4.40	2.70
Indoor water flow rate	1.47 m³/h	0.83 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	152 %	119 %
Prated	10.00 kW	9.00 kW
SCOP	3.88	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	7.50 kW
COP Tj = -7°C	2.71	2.10
Pdh Tj = +2°C	5.90 kW	6.00 kW
COP Tj = +2°C	3.81	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.30
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01





Pdh Tj = Tbiv	10.00 kW	8.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	10.00 kW	8.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5324 kWh	5770 kWh



Model: Bosch Compress 3000 AWS-11 E

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.60 kW	7.50 kW	
El input	1.95 kW	2.78 kW	
СОР	4.40	2.70	
Indoor water flow rate	1.47 m³/h	0.83 m³/h	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 12102-1				
	Low temperature	Medium temperature		
Sound power level indoor	35 dB(A)	35 dB(A)		
Sound power level outdoor 67 dB(A) 67 dB(A)				

EN 14825		
	Low temperature	Medium temperature
η_{s}	152 %	119 %
Prated	10.00 kW	9.00 kW
SCOP	3.88	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	8.80 kW	7.50 kW
COP Tj = -7°C	2.71	2.10
Pdh Tj = +2°C	5.90 kW	6.00 kW
COP Tj = +2°C	3.81	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.30
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01





Pdh Tj = Tbiv	10.00 kW	8.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	10.00 kW	8.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5324 kWh	5770 kWh



Model: Bosch Compress 3000 AWS-15 MS

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.65 kW	8.36 kW	
El input	2.19 kW	3.06 kW	
СОР	4.41	2.73	
Indoor water flow rate	1.64 m³/h	0.92 m³/h	

EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{\rm s}$	153 %	123 %
Prated	13.00 kW	11.00 kW
SCOP	3.90	3.15
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.10 kW	9.30 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.70 kW	6.00 kW
COP Tj = +2°C	3.71	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01



Pdh Tj = Tbiv	12.50 kW	10.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	12.50 kW	10.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6612 kWh	6942 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	71 %	
COP	1.68	
Heating up time	3:20 h:min	
Standby power input	60.0 W	
Reference hot water temperature	56.4 °C	
Mixed water at 40°C	304	



Model: Bosch Compress 3000 AWS-15 M

Gener	al Data
Power supply	3x400V 50Hz

Heating

	EN 14511-2	
	Low temperature	Medium temperature
Heat output	9.65 kW	8.36 kW
El input	2.19 kW	3.06 kW
СОР	4.41	2.73
Indoor water flow rate	1.64 m³/h	0.92 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	153 %	123 %
Prated	13.00 kW	11.00 kW
SCOP	3.90	3.15
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.10 kW	9.30 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.70 kW	6.00 kW
COP Tj = +2°C	3.71	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01



Pdh Tj = Tbiv	12.50 kW	10.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	12.50 kW	10.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6612 kWh	6942 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	L
Efficiency ηDHW	71 %
СОР	1.68
Heating up time	3:20 h:min
Standby power input	60.0 W
Reference hot water temperature	56.4 °C
Mixed water at 40°C	304



Model: Bosch Compress 3000 AWS-15 B

Genera	al Data
Power supply	3x400V 50Hz

Heating

	EN 14511-2	
	Low temperature	Medium temperature
Heat output	9.65 kW	8.36 kW
El input	2.19 kW	3.06 kW
СОР	4.41	2.73
Indoor water flow rate	1.64 m³/h	0.92 m³/h

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	153 %	123 %
Prated	13.00 kW	11.00 kW
SCOP	3.90	3.15
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.10 kW	9.30 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.70 kW	6.00 kW
COP Tj = +2°C	3.71	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01





Pdh Tj = Tbiv	12.50 kW	10.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	12.50 kW	10.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6612 kWh	6942 kWh



Model: Bosch Compress 3000 AWS-15 E

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	9.65 kW	8.36 kW	
El input	2.19 kW	3.06 kW	
СОР	4.41	2.73	
Indoor water flow rate	1.64 m³/h	0.92 m³/h	

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{\rm s}$	153 %	123 %
Prated	13.00 kW	11.00 kW
SCOP	3.90	3.15
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	11.10 kW	9.30 kW
COP Tj = -7°C	2.71	2.11
Pdh Tj = +2°C	6.70 kW	6.00 kW
COP Tj = +2°C	3.71	3.11
Pdh Tj = +7°C	6.50 kW	6.00 kW
COP Tj = +7°C	5.71	4.31
Pdh Tj = 12°C	6.50 kW	6.00 kW
COP Tj = 12°C	5.71	5.01



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Pdh Tj = Tbiv	12.50 kW	10.50 kW
COP Tj = Tbiv	2.61	1.81
Pdh Tj = TOL	12.50 kW	10.50 kW
COP Tj = TOL	2.61	1.81
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
РТО	51 W	51 W
PSB	11 W	11 W
PCK	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	6612 kWh	6942 kWh