

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-8

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.

011-1W0135

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.

2017-07-18

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







ANNEX

Page 1 of 1

Certificate

011-1W0135 dated 2017-07-18

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)

4P07069-02 dated 2015-05-05





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Summary of	Bosch Compress 3000 AWS-8	Reg. No.	011-1W0135
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 AB		
Subtype title	Bosch Compress 3000 AWS-8		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	HFC-410a		
Mass Of Refrigerant	1.6 kg		
Certification Date	n/a		
Testing basis	n/a		



Model: Bosch Compress 3000 AWS-8 E

Gener	al Data
Power supply	1x230V 50Hz

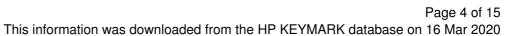
Heating

	EN 14511-2	
	Low temperature	Medium temperature
Heat output	5.41 kW	3.99 kW
El input	1.13 kW	1.47 kW
СОР	4.80	2.72
Indoor water flow rate	0.95 m³/h	0.44 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	37 dB(A)	37 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	150 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	3.83	3.20
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	6.40 kW	5.30 kW
COP Tj = -7°C	2.65	2.11
Pdh Tj = +2°C	3.90 kW	3.20 kW
COP Tj = +2°C	3.61	3.10
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.71	4.70
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.71	5.00





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Pdh Tj = Tbiv	7.20 kW	6.00 kW
COP Tj = Tbiv	2.51	1.90
Pdh Tj = TOL	5.70 kW	4.90 kW
COP Tj = TOL	2.41	2.00
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	3879 kWh	3890 kWh



Model: Bosch Compress 3000 AWS-8 B

Genera	al Data
Power supply	1x230V 50Hz

Heating

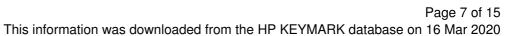
	EN 14511-2	
	Low temperature	Medium temperature
Heat output	5.41 kW	3.99 kW
El input	1.13 kW	1.47 kW
СОР	4.80	2.72
Indoor water flow rate	0.95 m³/h	0.44 m³/h

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	37 dB(A)	37 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{\rm s}$	150 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	3.83	3.20
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	6.40 kW	5.30 kW
COP Tj = -7°C	2.65	2.11
Pdh Tj = +2°C	3.90 kW	3.20 kW
COP Tj = +2°C	3.61	3.10
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.71	4.70
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.71	5.00





This information was downloaded from the Fit TNE TWART database of To Wai 2020		
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COP Tj = Tbiv	2.51	1.90
Pdh Tj = TOL	5.70 kW	4.90 kW
COP Tj = TOL	2.41	2.00
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	3879 kWh	3890 kWh



Model: Bosch Compress 3000 AWS-8 M

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.41 kW	3.99 kW
El input	1.13 kW	1.47 kW
СОР	4.80	2.72
Indoor water flow rate	0.95 m³/h	0.44 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	37 dB(A)	37 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	150 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	3.83	3.20
Tbiv	-10 °C	-10 °C
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Pdh Tj = -7°C	6.40 kW	5.30 kW
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COP Tj = +2°C	3.61	3.10
Pdh Tj = +7°C	3.60 kW	3.60 kW
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Pdh Tj = TOL	5.70 kW	4.90 kW
COP Tj = TOL	2.41	2.00
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	3879 kWh	3890 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	105 %	
COP	2.49	
Heating up time	02:08 h:min	
Standby power input	44.0 W	
Reference hot water temperature	52.6 °C	
Mixed water at 40°C	257 I	



Model: Bosch Compress 3000 AWS-8 MS

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.41 kW	3.99 kW
El input	1.13 kW	1.47 kW
СОР	4.80	2.72
Indoor water flow rate	0.95 m³/h	0.44 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 37 dB(A) 37 dB(A) Sound power level outdoor 65 dB(A) 65 dB(A)

EN 14825		
	Low temperature	Medium temperature
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Prated	7.00 kW	6.00 kW
SCOP	3.83	3.20
Tbiv	-10 °C	-10 °C
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Pdh Tj = TOL	5.70 kW	4.90 kW
COP Tj = TOL	2.41	2.00
Cdh	0.90	0.90
WTOL	57 °C	57 °C
Poff	11 W	11 W
PTO	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	3879 kWh	3890 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	105 %	
СОР	2.49	
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