

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-4, Bosch Compress 3000 AWS-6
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	B
Registration No.	011-1W0133
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.
DAKKS Deutsche Akkreditierungsstelle D-ZE-11125-01-00	2017-09-26 DiplWiIng. (FH) Sören Scholz Head of Certification Body



ANNEX

Certificate

011-1W0133 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)

4P07069-01 dated 2015-05-05



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Summary of	Bosch Compress 3000 AWS-4/6	Reg. No.	011-1W0133
Certificate Holder		!	
Name	Bosch Thermotechnik GmbH		
Address	Sophienstraße 30-32	Zip	35576
City	Wetzlar	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbew	vertung mbH	
Name of testing laboratory	RISE Research Institutes of Sweden AB		
Subtype title	Bosch Compress 3000 AWS-4/6		
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-4 E

General Data		
Power supply	1x230V 50Hz	

Heating

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 14511-2				
	Low temperature	Medium temperature		
Heat output	4.49 kW	3.01 kW		
El input	0.96 kW	1.18 kW		
СОР	4.69	2.55		
Indoor water flow rate	0.78 m³/h	0.33 m³/h		

Average Climate

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EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	36 dB(A)	36 dB(A)	
Sound power level outdoor	65 dB(A)	65 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η _s	144 %	115 %
Prated	5.00 kW	4.00 kW
SCOP	3.68	2.95
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	3.50 kW
COP Tj = -7°C	2.71	2.02
Pdh Tj = +2°C	3.60 kW	3.20 kW
COP Tj = +2°C	3.61	3.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.61	4.70
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.61	5.00

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Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.31	1.82
Pdh Tj = TOL	4.10 kW	4.10 kW
COP Tj = TOL	2.51	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
РСК	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	2814 kWh	2811 kWh



Model: Bosch Compress 3000 AWS-4 B

General Data		
Power supply	1x230V 50Hz	

Heating

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 14511-2			
	Low temperature	Medium temperature	
Heat output	4.49 kW	3.01 kW	
El input	0.96 kW	1.18 kW	
СОР	4.69	2.55	
Indoor water flow rate	0.78 m³/h	0.33 m³/h	

Average Climate



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	144 %	115 %
Prated	5.00 kW	4.00 kW
SCOP	3.68	2.95
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	3.50 kW
COP Tj = -7°C	2.71	2.02
Pdh Tj = +2°C	3.60 kW	3.20 kW
COP Tj = +2°C	3.61	3.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.61	4.70
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.61	5.00

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Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.31	1.82
Pdh Tj = TOL	4.10 kW	4.10 kW
COP Tj = TOL	2.51	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
РСК	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	2814 kWh	2811 kWh



Model: Bosch Compress 3000 AWS-4 M

General Data		
Power supply	1x230V 50Hz	

Heating

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 14511-2			
	Low temperature	Medium temperature	
Heat output	4.49 kW	3.01 kW	
El input	0.96 kW	1.18 kW	
СОР	4.69	2.55	
Indoor water flow rate	0.78 m³/h	0.33 m³/h	

Average Climate

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	144 %	115 %
Prated	5.00 kW	4.00 kW
SCOP	3.68	2.95
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	3.50 kW
COP Tj = -7°C	2.71	2.02
Pdh Tj = +2°C	3.60 kW	3.20 kW
COP Tj = +2°C	3.61	3.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.61	4.70
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.61	5.00

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Pdh Tj = Tbiv	5.00 kW	4.00 kW
COP Tj = Tbiv	3.31	1.82
Pdh Tj = TOL	4.10 kW	4.10 kW
COP Tj = TOL	2.51	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
РСК	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	2814 kWh	2811 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147		
Declared load profile	L	
Efficiency ηDHW	105 %	
СОР	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	



Model: Bosch Compress 3000 AWS-4 MS

General Data		
Power supply 1x230V 50Hz		

Heating

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 14511-2		
	Low temperature	Medium temperature
Heat output	4.49 kW	3.01 kW
El input	0.96 kW	1.18 kW
СОР	4.69	2.55
Indoor water flow rate	0.78 m³/h	0.33 m³/h

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	144 %	115 %
Prated	5.00 kW	4.00 kW
SCOP	3.68	2.95
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	4.40 kW	3.50 kW
COP Tj = -7°C	2.71	2.02
Pdh Tj = +2°C	3.60 kW	3.20 kW
COP Tj = +2°C	3.61	3.00
Pdh Tj = +7°C	3.60 kW	3.60 kW
COP Tj = +7°C	5.61	4.70
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.61	5.00

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Pdh Tj = Tbiv	5.00 kW	4.00 kW	
COP Tj = Tbiv	3.31	1.82	
Pdh Tj = TOL	4.10 kW	4.10 kW	
COP Tj = TOL	2.51	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	
РСК	100 W	100 W	
Supplementary Heater: Type of energy input	Electric	Electric	
Supplementary Heater: PSUP	0.00 kW	0.00 kW	

2814 kWh

2811 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe

Average Climate

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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	

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Model: Bosch Compress 3000 AWS-6 E

General Data	
Power supply 1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.01 kW	3.50 kW
El input	1.06 kW	1.35 kW
СОР	4.70	2.60
Indoor water flow rate	0.87 m³/h	0.38 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

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	148 %	119 %
Prated	6.00 kW	5.00 kW
SCOP	3.78	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.30 kW	4.40 kW
COP Tj = -7°C	2.71	2.00
Pdh Tj = +2°C	3.60 kW	3.20 kW
COP Tj = +2°C	3.61	3.01
Pdh Tj = +7°C	3.60 kW	3.50 kW
COP Tj = +7°C	5.61	4.71
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.61	5.02

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Annual energy consumption Qhe

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Pdh Tj = Tbiv	6.00 kW	5.00 kW
COP Tj = Tbiv	2.51	1.80
Pdh Tj = TOL	4.90 kW	4.50 kW
COP Tj = TOL	2.51	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
РСК	100 W	100 W
Supplementary Heater: Type of energy input	Electric	Electric
Supplementary Heater: PSUP	0.00 kW	0.00 kW

3296 kWh

3400 kWh

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Model: Bosch Compress 3000 AWS-6 B

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.01 kW	3.50 kW
El input	1.06 kW	1.35 kW
СОР	4.70	2.60
Indoor water flow rate	0.87 m³/h	0.38 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	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	148 %	119 %
Prated	6.00 kW	5.00 kW
SCOP	3.78	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.30 kW	4.40 kW
COP Tj = -7°C	2.71	2.00
Pdh Tj = +2°C	3.60 kW	3.20 kW
COP Tj = +2°C	3.61	3.01
Pdh Tj = +7°C	3.60 kW	3.50 kW
COP Tj = +7°C	5.61	4.71
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.61	5.02

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Pdh Tj = Tbiv	6.00 kW	5.00 kW
COP Tj = Tbiv	2.51	1.80
Pdh Tj = TOL	4.90 kW	4.50 kW
COP Tj = TOL	2.51	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
РСК	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	3296 kWh	3400 kWh



Model: Bosch Compress 3000 AWS-6 M

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.01 kW	3.50 kW
El input	1.06 kW	1.35 kW
СОР	4.70	2.60
Indoor water flow rate	0.87 m³/h	0.38 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	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	148 %	119 %
Prated	6.00 kW	5.00 kW
SCOP	3.78	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.30 kW	4.40 kW
COP Tj = -7°C	2.71	2.00
Pdh Tj = +2°C	3.60 kW	3.20 kW
COP Tj = +2°C	3.61	3.01
Pdh Tj = +7°C	3.60 kW	3.50 kW
COP Tj = +7°C	5.61	4.71
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.61	5.02

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	6.00 kW	5.00 kW	

Pdh Tj = Tbiv	6.00 kW	5.00 kW
COP Tj = Tbiv	2.51	1.80
Pdh Tj = TOL	4.90 kW	4.50 kW
COP Tj = TOL	2.51	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
РСК	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	3296 kWh	3400 kWh

Domestic Hot Water (DHW)

Average Climate

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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

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Model: Bosch Compress 3000 AWS-6 MS

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.01 kW	3.50 kW
El input	1.06 kW	1.35 kW
СОР	4.70	2.60
Indoor water flow rate	0.87 m³/h	0.38 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	

Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	36 dB(A)	36 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _s	148 %	119 %
Prated	6.00 kW	5.00 kW
SCOP	3.78	3.05
Tbiv	-10 °C	-10 °C
TOL	-15 °C	-15 °C
Pdh Tj = -7°C	5.30 kW	4.40 kW
COP Tj = -7°C	2.71	2.00
Pdh Tj = +2°C	3.60 kW	3.20 kW
COP Tj = +2°C	3.61	3.01
Pdh Tj = +7°C	3.60 kW	3.50 kW
COP Tj = +7°C	5.61	4.71
Pdh Tj = 12°C	3.60 kW	3.60 kW
COP Tj = 12°C	5.61	5.02

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KEYMARK		
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Pdh Tj = Tbiv	6.00 kW	5.00 kW
COP Tj = Tbiv	2.51	1.80
Pdh Tj = TOL	4.90 kW	4.50 kW
COP Tj = TOL	2.51	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
РСК	100 W	100 W

Electric

0.00 kW

3296 kWh

Electric

0.00 kW

3400 kWh

Domestic Hot Water (DHW)

Supplementary Heater: Type of energy input

Average Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

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EN 16147	
Declared load profile	L
Efficiency ηDHW	105 %
СОР	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

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