

AENOR

Keymark Certificate Solar thermal energy



078/000351

AENOR certifies that the organization

BDR THERMEA GROUP B.V

registered office	MARCHANTSTRAAT, 55 7300 AA APELDOORN (Holanda - Países Bajos)
supplies	Factory made thermal solar heating systems
in compliance with	UNE-EN 12976-1:2006 (EN 12976-1:2006)
Trade Mark	BAXI STS+ 150 2.0, BAXI STS+ 150 2.5, BAXI STS+ 200 2.0, BAXI STS+ 200 2.5, BAXI STS+ 300 2.0, BAXI STS+ 300 2.5
Technical information	Specified in Annexes to the Certificate
Production site	CL MANGANÉS, 2 POLIG. INDUSTRIAL CAN ALBAREDA 08755 CASTELLBISBAL (Barcelona - España)
Certification scheme	In order to grant this Certificate, AENOR has tested the product and has verified the quality system implemented for its manufacture. AENOR performs these tasks periodically while the Certificate has not been cancelled, in accordance with Specific Rules RP 078.02.
First issued on	2020-02-28
Validity date	2025-02-28


Rafael GARCÍA MEIRO
Chief Executive Officer

Original Electronic Certificate


AENOR INTERNACIONAL S.A.U.
Génova, 6. 28004 Madrid. España
Tel. 91 432 60 00.- www.aenor.com

Product certification body accredited by ENAC, number 1/C-PR271



Summary of	EN12976-2	SOLAR SYSTEM test results		Licence Number	078/000351					
Annex to Solar KEYMARK Certificate				Issued	2020-02-28					
Company	BDR THERMEA GROUP B.V.			Country	NETHERLANDS					
Brand (optional)	BAXI			Website	www.bdrthermea.com					
Street	MARCHANSTRAAT 55			E-mail	oleguer.fuertes@BDRThermea.com					
Postal Code	7300 AA	APPELDOORN		Tel. / Fax	+34	902.898.989				
System classification										
Application(s)	Hot water									
Solar loop, circulation principle	Thermosyphon									
Direct solar loop / heat exchanger	Heat exchanger									
Open, vented or closed solar loop	Closed									
Drain back/down	Always filled (no drain)									
Store location	Outdoor									
Store orientation (of main axis)	Horizontal									
Type of auxiliary heating (internal back-up heat)	None									
If other auxiliary/internal back-up heating, please specify:										
Solar+supplementary OR Solar-only / Solar pre-heat	Solar only / Solar preheat									
Collector(s)					Heat store(s)					
Company	FABRISOLIA, S.L.U.				Company	SOLE S.A.				
Keymark lic.no. if available	078/000266 and 078/000258				Keymark lic.no. if available					
Collector name	Per module			Store name	Total nominal volume	Gross height	Gross width	Gross depth	Auxiliary heated volume	Electrical aux. heating power
	Gross Area (Ag)	Gross length	Gross width							
	m ²	mm	mm							
BAXI MED SLIM 200	2,02	1757	1151	STS+ 150	157,9	500	1268	--	--	--
BAXI MED SLIM 250	2,52	2191	1151	STS+ 200	196,8	580	1268	--	--	--
				STS+ 300 Γ	294,5	580	2028	--	--	--
				STS+ 300	325,5	580	2028	--	--	--
Solar loop controller					Solar loop fluid					
Keymark lic.no. if available	--				Recommended/required	Required				
Company	--				Company	BAXI				
Name	--				Name	FAC 10				
Solar loop pump - power range	W to W				Freezing point	-10 °C				
System family overview										
Collector name	Number of collectors in each configuration for each store									
	Store name									
	STS+ 150		STS+ 200		STS+ 300 Γ		STS+ 300			
BAXI MED SLIM 200	1		1		2		2			
BAXI MED SLIM 250	1		1		2		2			
Testing Laboratory	Fundación CENER-CIEMAT									
Website	www.cener.com									
Test report id. number	30.3629.0 Technical Appendix of Solar System Family, 30.3629.0-1 Test report, 30.3629.1-1 Test report									
Date of test report	2020-02-07									
Comments of test lab	STS+ 150 2.0, STS+ 150 2.5, STS+ 200 2.0, STS+ 200 2.5, STS+ 300 2.0 Γ, STS+ 300 2.5 Γ, STS+ 300 2.0 and STS+ 300 2.5 are considered a Solar System Family. The thermal characterisation was performed on model STS+ 300 2.0 Γ and the high-temperature test was performed on model STS+ 300 2.5 Γ.									
					 CENER NATIONAL RENEWABLE ENERGY CENTRE ADItch Stamp & seal of test lab					




Summary of	EN12976-2	test results	Certification No.	078/000351									
Annex to Solar KEYMARK Certificate			Issued	2020-02-28									
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Brand (optional)	BAXI		Website	www.bdrthermea.com									
Street	MARCHANSTRAAT 55		E-mail	oleguer.fuertes@BDRThermea.com									
Postal Code	7300 AA	APPELDOORN	Tel. / Fax	+34 902898989									
System family overview													
For each storage and collector size, give number of collectors													
Collector name	STS+ 150	STS+ 200	STS+ 300 f	STS+ 300									
BAXI MED SLIM 200	1	1	2	2									
BAXI MED SLIM 250	1	1	2	2									
Name of system configuration													
			BAXI STS+ 150 2.0										
Collector name	BAXI MED SLIM 200	No. Collectors	1	Storage name									
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh MJ/y	Daily drawoff 140 l				Daily drawoff 170 l				Daily drawoff 200 l			
		Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %
Stockholm SE	--	7814	3402	0	43,5	9489	3650	0	38,5	11163	3793	0	34,0
WürzburgDE	--	7494	3555	0	47,4	9099	3874	0	42,6	10705	4060	0	37,9
Davos CH	--	8479	4991	0	58,9	10295	5311	0	51,6	12112	5503	0	45,4
Athens GR	--	5823	4477	0	76,9	7071	5032	0	71,2	8319	5452	0	65,5
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
$f_{sol}=Q_L/Q_d$	-	Solar fraction											
Ref. conditions	G	Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	Ta,ave	1.157	1.230	1.684	1.736								
	Tc,ave	7,5	9,0	3,2	18,5								
	± ΔTc	8,5	10,0	5,4	17,8								
		6,4	3,0	0,8	7,4								
G	kWh/m ²	Annual irradiation South, 45°											
Ta,ave	°C	Annual average outdoor air temperature											
Tc,ave	°C	Annual average mains cold water temp.											
ΔTc	K	Seasonal variation of Tc											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		150	kPa	Max. operating press. - tank side		800	kPa						
Testing Laboratory		Fundación CENER-CIEMAT											
Website		www.cener.com											
Test report id. number		30.3629.0 Technical Appendix of Solar System Family											
Date of test report		2020-02-07											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
The thermal performance and the long-term prediction were extrapolated according to Standard EN 12976-1:2017 for model STS+ 300 2.0 f													
													

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

Version 4.5, 2017-10-24




Summary of	EN12976-2	test results	Certification No.	078/000351										
Annex to Solar KEYMARK Certificate			Issued	2020-02-28										
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Postal Code	7300 AA	APPELDOORN	Tel. / Fax	+34 902898989										
System family overview														
For each storage and collector size, give number of collectors														
Collector name	STS+ 150	STS+ 200	STS+ 300 f	STS+ 300										
BAXI MED SLIM 200	1	1	2	2										
BAXI MED SLIM 250	1	1	2	2										
Name of system configuration														
			BAXI STS+ 150 2.5											
Collector name	BAXI MED SLIM 250	No. Collectors	1	Storage name										
				STS+ 150										
Calculated annual results for "solar-only / preheat system"														
Location	Qd,sh MJ/y	Daily drawoff 140 l				Daily drawoff 170 l				Daily drawoff 200 l				
		Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	
Stockholm SE	--	7814	3853	0	49,3	9489	4216	0	44,4	11163	4435	0	39,7	
WürzburgDE	--	7494	3961	0	52,9	9099	4412	0	48,5	10705	4722	0	44,1	
Davos CH	--	8479	5744	0	67,7	10295	6249	0	60,7	12112	6543	0	54,0	
Athens GR	--	5823	4819	0	82,8	7071	5507	0	77,9	8319	6058	0	72,8	
Perf. indicators for the table above														
Qd,sh	MJ/y	Not relevant for solar domestic hot water system												
Qd	MJ/y	Annual heat demand for domestic hot water												
QL	MJ/y	Annual heat energy delivered by the solar system												
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)												
f _{sol} =Q _L /Q _d	-	Solar fraction												
Ref. conditions	G	Stockholm SE	Würzburg DE	Davos CH	Athens GR									
	T _{a,ave}	7,5	9,0	3,2	18,5									
	T _{c,ave}	8,5	10,0	5,4	17,8									
	± ΔT _c	6,4	3,0	0,8	7,4									
	G	kWh/m ²	Annual irradiation South, 45°											
T _{a,ave}	°C	Annual average outdoor air temperature												
T _{c,ave}	°C	Annual average mains cold water temp.												
ΔT _c	K	Seasonal variation of T _c												
Th	45 °C	Desired hot water temperature (mixing valve temperature).												
Max. operating press. - collector side		150	kPa	Max. operating press. - tank side		800	kPa							
Testing Laboratory		Fundación CENER-CIEMAT												
Website		www.cener.com												
Test report id. number		30.3629.0 Technical Appendix of Solar System Family												
Date of test report		2020-02-07												
Test method		ISO 9459-5 (DST)												
Comments of test lab		The thermal performance and the long-term prediction were extrapolated according to Standard EN 12976-1:2017 for model STS+ 300 2.0 f												
		 CENER ADitech NATIONAL RENEWABLE ENERGY CENTRE												

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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Postal Code	7300 AA	APPELDOORN	Tel. / Fax	+34 902898989										
System family overview														
For each storage and collector size, give number of collectors														
Collector name	STS+ 150	STS+ 200	STS+ 300 f	STS+ 300										
BAXI MED SLIM 200	1	1	2	2										
BAXI MED SLIM 250	1	1	2	2										
Name of system configuration														
			BAXI STS+ 200 2.0											
Collector name	BAXI MED SLIM 200	No. Collectors	1	Storage name										
Calculated annual results for "solar-only / preheat system"														
Location	Qd,sh MJ/y	Daily drawoff 170 l				Daily drawoff 200 l				Daily drawoff 250 l				
		Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	Qd,hw MJ/y	QL MJ/y	Qpar MJ/y	fsol %	
Stockholm SE	--	9489	3661	0	38,6	11163	3870	0	34,7	13954	4053	0	29,0	
WürzburgDE	--	9099	3885	0	42,7	10705	4126	0	38,5	13381	4342	0	32,4	
Davos CH	--	10295	5302	0	51,5	12112	5560	0	45,9	15140	5809	0	38,4	
Athens GR	--	7071	5050	0	71,4	8319	5519	0	66,3	10398	6069	0	58,4	
Perf. indicators for the table above														
Qd,sh	MJ/y	Not relevant for solar domestic hot water system												
Qd	MJ/y	Annual heat demand for domestic hot water												
QL	MJ/y	Annual heat energy delivered by the solar system												
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)												
$f_{sol}=Q_L/Q_d$	-	Solar fraction												
Ref. conditions	G	Stockholm SE	Würzburg DE	Davos CH	Athens GR									
	Ta,ave	7,5	9,0	3,2	18,5									
	Tc,ave	8,5	10,0	5,4	17,8									
	± ΔTc	6,4	3,0	0,8	7,4									
	G	kWh/m ²	Annual irradiation South, 45°											
Ta,ave	°C	Annual average outdoor air temperature												
Tc,ave	°C	Annual average mains cold water temp.												
ΔTc	K	Seasonal variation of Tc												
Th	45 °C	Desired hot water temperature (mixing valve temperature).												
Max. operating press. - collector side		150	kPa	Max. operating press. - tank side		800	kPa							
Testing Laboratory		Fundación CENER-CIEMAT												
Website		www.cener.com												
Test report id. number		30.3629.0 Technical Appendix of Solar System Family												
Date of test report		2020-02-07												
Test method		ISO 9459-5 (DST)												
Comments of test lab		The thermal performance and the long-term prediction were extrapolated according to Standard EN 12976-1:2017 for model STS+ 300 2.0 f												
														


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Postal Code	7300 AA	APPELDOORN	Tel. / Fax	+34 902898989													
System family overview																	
For each storage and collector size, give number of collectors																	
Collector name	STS+ 150	STS+ 200	STS+ 300 f	STS+ 300													
BAXI MED SLIM 200	1	1	2	2													
BAXI MED SLIM 250	1	1	2	2													
Name of system configuration																	
			BAXI STS+ 200 2.5														
Collector name	BAXI MED SLIM 250	No. Collectors	1	Storage name													
		STS+ 200															
Calculated annual results for "solar-only / preheat system"																	
Location	Qd,sh	Daily drawoff 170 l				Daily drawoff 200 l				Daily drawoff 250 l							
		Qd,hw		QL		Qpar		fsol		Qd,hw		QL		Qpar		fsol	
		MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%			
Stockholm SE	--	9489	4253	0	44,8	11163	4558	0	40,8	13954	4824	0	34,6				
WürzburgDE	--	9099	4441	0	48,8	10705	4808	0	44,9	13381	5160	0	38,6				
Davos CH	--	10295	6281	0	61,0	12112	6661	0	55,0	15140	7006	0	46,3				
Athens GR	--	7071	5542	0	78,4	8319	6147	0	73,9	10398	6894	0	66,3				
Perf. indicators for the table above																	
Qd,sh	MJ/y	Not relevant for solar domestic hot water system															
Qd	MJ/y	Annual heat demand for domestic hot water															
QL	MJ/y	Annual heat energy delivered by the solar system															
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)															
f _{sol} =Q _L /Q _d	-	Solar fraction															
Ref. conditions	G	Stockholm SE	Würzburg DE	Davos CH	Athens GR												
		1.157	1.230	1.684	1.736												
	T _{a,ave}	7,5	9,0	3,2	18,5												
	T _{c,ave}	8,5	10,0	5,4	17,8												
	± ΔT _c	6,4	3,0	0,8	7,4												
G	kWh/m ²	Annual irradiation South, 45°															
T _{a,ave}	°C	Annual average outdoor air temperature															
T _{c,ave}	°C	Annual average mains cold water temp.															
ΔT _c	K	Seasonal variation of T _c															
Th	45 °C	Desired hot water temperature (mixing valve temperature).															
Max. operating press. - collector side		150	kPa	Max. operating press. - tank side													
		800	kPa														
Testing Laboratory	Fundación CENER-CIEMAT																
Website	www.cener.com																
Test report id. number	30.3629.0 Technical Appendix of Solar System Family																
Date of test report	2020-02-07																
Test method	ISO 9459-5 (DST)																
Comments of test lab																	
The thermal performance and the long-term prediction were extrapolated according to Standard EN 12976-1:2017 for model STS+ 300 2.0 f																	
			 CENER ADitech NATIONAL RENEWABLE ENERGY CENTRE														


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Brand (optional)	BAXI		Website	www.bdrthermea.com									
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Postal Code	7300 AA	APPELDOORN	Tel. / Fax	+34 902898989									
System family overview													
For each storage and collector size, give number of collectors													
Collector name	STS+ 150	STS+ 200	STS+ 300 Γ	STS+ 300									
BAXI MED SLIM 200	1	1	2	2									
BAXI MED SLIM 250	1	1	2	2									
Name of system configuration													
			BAXI STS+ 300 2.0										
Collector name	BAXI MED SLIM 200	No. Collectors	2	Storage name									
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff				Daily drawoff				Daily drawoff			
		250 l		300 l		400 l		250 l		300 l		400 l	
	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	
	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	
Stockholm SE	--	13954	6619	0	47,4	16745	7134	0	42,6	22327	7809	0	35,0
WürzburgDE	--	13381	6793	0	50,8	16058	7500	0	46,7	21410	8281	0	38,7
Davos CH	--	15140	9709	0	64,1	18169	10481	0	57,7	24225	11239	0	46,4
Athens GR	--	10398	8374	0	80,5	12478	9481	0	76,0	16637	11010	0	66,2
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
$f_{sol}=Q_L/Q_d$	-	Solar fraction											
Ref. conditions	G	Stockholm SE	Würzburg DE	Davos CH	Athens GR								
		1.157	1.230	1.684	1.736								
	T _{a,ave}	7,5	9,0	3,2	18,5								
	T _{c,ave}	8,5	10,0	5,4	17,8								
	± ΔT _c	6,4	3,0	0,8	7,4								
G	kWh/m ²	Annual irradiation South, 45°											
T _{a,ave}	°C	Annual average outdoor air temperature											
T _{c,ave}	°C	Annual average mains cold water temp.											
ΔT _c	K	Seasonal variation of T _c											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		150	kPa	Max. operating press. - tank side		800	kPa						
Testing Laboratory		Fundación CENER-CIEMAT											
Website		www.cener.com											
Test report id. number		30.3629.0 Technical Appendix of Solar System Family											
Date of test report		2020-02-07											
Test method		ISO 9459-5 (DST)											
Comments of test lab		The thermal performance and the long-term prediction were extrapolated according to Standard EN 12976-1:2017 for model STS+ 300 2.0 Γ											
													

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Postal Code	7300 AA	APPELDOORN	Tel. / Fax	+34 902898989									
System family overview													
For each storage and collector size, give number of collectors													
Collector name	STS+ 150		STS+ 200										
	STS+ 300 Γ		STS+ 300										
BAXI MED SLIM 200	1		2	2									
BAXI MED SLIM 250	1		2	2									
Name of system configuration													
			BAXI STS+ 300 2.5										
Collector name	BAXI MED SLIM 250	No. Collectors	2	Storage name									
				STS+ 300									
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh	Daily drawoff 250 l				Daily drawoff 300 l				Daily drawoff 400 l			
		Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol	Qd,hw	QL	Qpar	fsol
	MJ/y	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%	MJ/y	MJ/y	MJ/y	%
Stockholm SE	--	13954	7396	0	53,0	16745	8132	0	48,6	22327	9143	0	41,0
WürzburgDE	--	13381	7497	0	56,0	16058	8412	0	52,4	21410	9610	0	44,9
Davos CH	--	15140	11012	0	72,7	18169	12157	0	66,9	24225	13384	0	55,2
Athens GR	--	10398	8944	0	86,0	12478	10249	0	82,1	16637	12222	0	73,5
Perf. indicators for the table above													
Qd,sh	MJ/y	Not relevant for solar domestic hot water system											
Qd	MJ/y	Annual heat demand for domestic hot water											
QL	MJ/y	Annual heat energy delivered by the solar system											
Qpar	MJ/y	Annual parasitic energy: (electricity for pumps/controllers)											
f_{sol}=QL/Q_d	-	Solar fraction											
Ref. conditions	G	Stockholm SE	Würzburg DE	Davos CH	Athens GR								
		1.157	1.230	1.684	1.736								
	T_{a,ave}	7,5	9,0	3,2	18,5								
	T_{c,ave}	8,5	10,0	5,4	17,8								
	± ΔTc	6,4	3,0	0,8	7,4								
G	kWh/m²	Annual irradiation South, 45°											
T_{a,ave}	°C	Annual average outdoor air temperature											
T_{c,ave}	°C	Annual average mains cold water temp.											
ΔTc	K	Seasonal variation of Tc											
Th	45 °C	Desired hot water temperature (mixing valve temperature).											
Max. operating press. - collector side		150	kPa	Max. operating press. - tank side									
		800	kPa										
Testing Laboratory		Fundación CENER-CIEMAT											
Website		www.cener.com											
Test report id. number		30.3629.0 Technical Appendix of Solar System Family											
Date of test report		2020-02-07											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
The thermal performance and the long-term prediction were extrapolated according to Standard EN 12976-1:2017 for model STS+ 300 2.0 Γ													
				 CENER ADitech NATIONAL RENEWABLE ENERGY CENTRE									

All values are subject to some uncertainty; e.g. the uncertainty on system output is typically in the range of ± 5 % to ± 15 %

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