



Keymark Certificate



078/000317

AENOR certifies that the organization

BDR THERMEA GROUP B.V.

registered office KANAAL ZUID, 106 7332 BD APELDOORN (Güeldres - 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 300 2.0 LP
Technical information Specified in Annexes to the Certificate

Production site CL MANGANÈS, 2 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 2019-06-18
Last issued on 2024-06-18
Validity 2029-06-18

Rafael GARCÍA MEIRO
CEO



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



Summary of	EN12976-2	SOLAR SYSTEM test results	Licence Number	078/000317						
Annex to Solar KEYMARK Certificate			Issued	2024-06-18						
Company	BDR THERMEA GROUP B.V.		Country	NETHERLANDS						
Brand (optional)	BAXI		Website	http://www.bdrthermea.com						
Street	KANAAL ZUID, 106		E-mail	oscar.mogro@bdrthermea.com						
Postal Code	7332 BD	APELDOORN (Güeldres)	Tel. / Fax	+34 936.828.040						
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		Keymark lic.no. if available							
Collector name	Per module			Store name	Total nominal volume litres	Gross height mm	Gross width mm	Gross depth mm	Auxiliary heated volume litres	Electrical aux. heating power kW
	Gross Area (Ag) m ²	Gross length mm	Gross width mm							
BAXI MEDITERRANEO SLIM 200	2,02	1757	1151	STS LP 300	274	530	1848	--	--	--
Solar loop controller			Solar loop fluid							
Keymark lic.no. if available			Recommended/required							
Company			Required							
Name			BAXI							
Solar loop pump - power range			Name							
W to W			FAC 10							
			Freezing point							
			-10 °C							
System family overview										
Collector name	Number of collectors in each configuration for each store									
	Store name									
	STS LP 300									
BAXI MEDITERRANEO SLIM 200	2									
Testing Laboratory			Fundación CENER-CIEMAT							
Website			www.cener.com							
Test report id. number			30.3452.1-1 R Test report							
Date of test report			2019-06-25							
Comments of test lab										
			 CENER ADItech Stamp & Signature of Test Lab NATIONAL RENEWABLE ENERGY CENTRE							



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Brand (optional)	BAXI		Website	http://www.bdrthermea.com									
Street	KANAAL ZUID, 106		E-mail	oscar.mogro@bdrthermea.com									
Postal Code	7332 BD	APELDOORN (Güeldres)	Tel. / Fax	+34 936828040									
System family overview													
Collector name	For each storage and collector size, give number of collectors												
BAXI MEDITERRANEO SLIM 200	2												
Name of system configuration													
Collector name			BAXI STS 300 2.0 LP										
BAXI MEDITERRANEO SLIM 200		No. Collectors	2	Storage name									
STS LP 300													
Calculated annual results for "solar-only / preheat system"													
Location	Qd,sh MJ/y	Daily drawoff 250 l				Daily drawoff 300 l				Daily drawoff 400 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	--	13954	5318	0	38,1	16745	5541	0	33,1	22327	5701	0	25,5
WürzburgDE	--	13381	6004	0	44,9	16058	6218	0	38,7	21410	6433	0	30,0
Davos CH	--	15140	8287	0	54,7	18169	8466	0	46,6	24225	8689	0	35,9
Athens GR	--	10398	7581	0	72,9	12478	8242	0	66,1	16637	8992	0	54,0
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		Stockholm SE	Würzburg DE	Davos CH	Athens GR								
	G	1.157	1.230	1.684	1.736								
	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/m²	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		1000	kPa	Max. operating press. - tank side		8000	kPa						
Testing Laboratory		Fundación CENER-CIEMAT											
Website		www.cener.com											
Test report id. number		30.3452.1-1 R Test report											
Date of test report		2019-06-25											
Test method		ISO 9459-5 (DST)											
Comments of test lab													
No comments													

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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