

CERTIFICATE

Certificate holder

Riello S.p.A.
Via Ing. Pilade Riello 7
37045 Legnago VR
ITALY

Production facility

Morbegno

Product

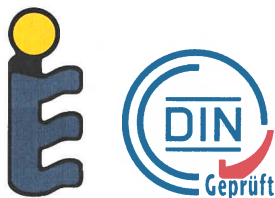
Solar collectors

Type, Model

CP25TVS

Testing basis

DIN EN 12975-1:2011-01
DIN EN 12975-2:2006-06
SOLAR KEYMARK Scheme Rules (2019-03)

Mark of conformity**Registration No.**

011-7S2399 F

Valid until

2024-07-31

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.

ANNEX

Page 1 of 1

Certificate

011-7S2399 F dated 2019-08-19

Technical Data

See data sheet, part of the test report of 2014-07-07

Note(s):

- The freeze resistance test according to DIN EN 12975-2, clause 5.8 was not necessary. According to the manufacturer's declaration, the certified solar collectors may be used in frost exposed areas only in combination with appropriate frost protection mixtures or with appropriate frost protection controller.
- The optional impact resistance test according to DIN EN 12975-2, clause 5.10 was not carried out.

**Testing laboratory/
Inspection body**

Institut für Solartechnik SPF
Hochschule für Technik
Rapperswil
Oberseestraße 10
8640 Rapperswil
SWITZERLAND

Test report(s)

No. C1630LPEN, No. C1630QPEN dated 2014-07-07



[illegible]

Annual collector output based on EN 12975 Test Results, annex to Solar KEYMARK Certificate	Licence Number	011-7S2399 F
	Issued	22.07.2014

Annual collector output kWh/module													
Collector name	Location and collector temperature (T _m)												
	Athens			Davos			Stockholm			Würzburg			
	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	25°C	50°C	75°C	
CP25TVS	2'681	1'875	1'221	2'016	1'384	881	1'481	957	583	1'612	1'031	619	

Collector mounting: Fixed or tracking	Fixed; slope = latitude - 15° (rounded to nearest 5°)
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Overview of locations				
Location	Latitude °	G _{tot} kWh/m ²	T _a °C	Collector orientation or tracking mode
Athens	38	1'765	18.5	South, 25°
Davos	47	1'714	3.2	South, 30°
Stockholm	59	1'166	7.5	South, 45°
Würzburg	50	1'244	9.0	South, 35°

G _{tot}	Annual total irradiation on collector plane	kWh/m ²
T _a	Mean annual ambient air temperature	°C
T _m	Constant collector operating temperature (mean of in- and outlet temperatures)	°C

The calculation of the annual collector performance is performed with the official Solar Keymark spreadsheet tool ScenoCalc. The collector output is calculated hour by hour according to the efficiency parameters from the Keymark test using constant collector operating temperature (T_m). A detailed description of the calculations is available at <http://www.sp.se/en/index/services/solar/ScenoCalc/Sidor/default.aspx>.

DIN CERTCO • Alboinstraße 56 • 12103 Berlin, Germany Tel: +49 30 7562-1131 • Fax: +49 30 7562-1141 • E-Mail: info@dincertco.de • www.dincertco.de	Datasheet version:
	4.06, 2014-01-15
	ScenoCalc version: Ver. 4.06 (Jan, 2014)

RIELLO S.p.A.

Via Risorgimento, 13
23900 Lecco (LC)
Tel. +39 0341 277111

RIELLO S.p.A.
Società con Socio unico soggetta alla
direzione e coordinamento di Riello Group SPA
Sede legale e amministrativa
37045 Legnago (VR) - Via Ing. Pilade Riello 7
Cap. soc. € 7.117.400.00 I.V.
Reg. delle Imp. di Verona N. 02641790239
C.F. e Part. IVA 02641790239

Piombino Dese, 29 Giugno 2015

DICHIARAZIONE DI CORRISPONDENZA

La società

Riello SpA Heating Products Direction
Via Ing. Pilade Riello 7
37045 Legnago
ITALIA

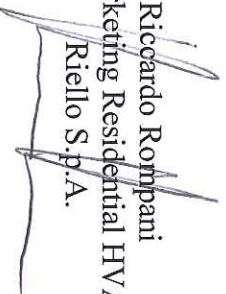
dichiara che i collettori solari serie CP e sistemi a circolazione naturale TSSA dotati di certificazione Solar Keymark e costruiti presso lo stabilimento di Piombino Dese, sono tecnicamente identici ai collettori solari e ai sistemi a marchio Sylber secondo quanto riportato nella tabella allegata.

DECLARATION OF CORRESPONDENCE

The company

Riello SpA Heating Products Direction
Via Ing. Pilade Riello 7
37045 Legnago
ITALIA

declare that the solar collectors type CP and thermosiphon system TSSA certified Solar Keymark and manufactured in the factory located in Piombino Dese, are technically identical to the solar collectors and to the systems with the Sylber brand according to the enclosed table.


Riccardo Rompani
Product Marketing Residential HVAC Manager
Riello S.p.A.

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Descrizione collettore solare	Marchio / Brand	Certificato n.
Solar collector type	Sylber	Certificate n.
CP20TSA	CF-20N	011-7S1765 F
CP25TLA	CFI-25N	011-7S1951 F
CP25TVA	CF-25N	011-7S1766 F
CP25VOA	CFO-25N	011-7S2056 F
TSSA BLACK 200/1	CNS 200/1	111 BN/0
TSSA BLACK 300/2	CNS 300/2	111 BN/0

CP20TSS	CFS-20	011-7S2400 F
CP25TVS	CFS-25	011-7S2399 F
CP25TOS	CFO-25S	011-7S2505 F