

CERTIFICATE

| | |
|----------------------------|--|
| Certificate holder | Riello S.p.A. Via Ing. Pilade Riello 7 37045 Legnago VR ITALY |
| Production facility | Morbegno |
| Product | Thermal solar systems |
| Type, Model | Sylber SN 150/1 TI / SN 150/1 TP Sylber SN 200/1 TI / SN 200/1 TP Sylber SN 220/1 TI / SN 220/1 TP Sylber SN 300/2 TI / SN 300/2 TP Sylber SN 300/3 TI / SN 300/3 TP |
| Testing basis | DIN EN 12976-1:2017-04 DIN EN 12976-2:2017-04 Specific CEN Keymark Scheme Rules for Solar Thermal Products Version 30 (2017-04) |

Mark of conformity**Registration No.** 011-7S2838 A**Valid until** 2023-02-28**Right of use** This certificate entitles the holder to use the mark of conformity shown above in conjunction with the specified registration number.

Further information see annex.

ANNEX

Certificate

011-7S2838 A dated 2018-02-26

Technical Data

see data sheet, part of the test report of 2018-02-20

1. System variant(s):

| Designation | Tank | Collector (Registration No.: 011-7S2400 F) |
|---------------------------|-------|--|
| SN 150/1 TI / SN 150/1 TP | 153 l | 1 CP20TSS |
| SN 200/1 TI / SN 200/1 TP | 202 l | 1 CP20TSS |
| SN 220/1 TI / SN 220/1 TP | 223 l | 2 CP20TSS |
| SN 300/2 TI / SN 300/2 TP | 278 l | 2 CP20TSS |
| SN 300/3 TI / SN 300/3 TP | 278 l | 3 CP20TSS |

2. 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 for the solar collector 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. S238EN, No. S239QPEN dated 2018-02-20





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|------------------------------------|-----------|--------------|-------------------|--------------|
| Summary of | EN12976-2 | test results | Certification No. | 011-7S2838 A |
| Annex to Solar KEYMARK Certificate | | | Issued | 2017-02-21 |

| | | | |
|------------------|--------------------------|------------|-----------------|
| Company | Riello S.p.A. | Country | Italy |
| Brand (optional) | Sylber | Website | www.sylber.it |
| Street | Via Ing. Pilade Riello 7 | E-mail | info@riello.com |
| Postal Code | IT-37045 Legnago | Tel. / Fax | +39 0499 323911 |

System family overview

| Collector name | For each storage and collector size, give number of collectors | | | |
|----------------|--|-------|-------|-------|
| | 150lt | 200lt | 220lt | 300lt |
| CP20TSS | 1 | 1 | 2 | 2 3 |
| | | | | |
| | | | | |
| | | | | |

| | | | | | |
|------------------------------|--------------------------|----------------|---|--------------|-------|
| Name of system configuration | SN 150/1 TP; SN 150/1 TI | | | | |
| Collector name | CP20TSS | No. Collectors | 1 | Storage name | 150lt |

Calculated annual results for "solar-only / preheat system"

| Location | Qd,sh MJ/y | Daily drawoff 110 l | | | | Daily drawoff 140 l | | | | Daily drawoff 170 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 | -- | 6150 | 2970 | -- | 48 | 7821 | 3426 | -- | 44 | 9492 | 3759 | -- | 40 |
| WürzburgDE | -- | 5897 | 3025 | -- | 51 | 7506 | 3603 | -- | 48 | 9114 | 4056 | -- | 45 |
| Davos CH | -- | 6654 | 4299 | -- | 65 | 8483 | 4997 | -- | 59 | 10281 | 5500 | -- | 54 |
| Athens GR | -- | 4573 | 3695 | -- | 81 | 5834 | 4463 | -- | 76 | 7064 | 5107 | -- | 72 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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 | | Stockholm SE | Würzburg DE | Davos CH | Athens GR |
|-----------------|--------------------|--------------|-------------|----------|-----------|
| | G | 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 | 250 | kPa | Max. operating press. - tank side | 1'000 | kPa |
|--|-----|-----|-----------------------------------|-------|-----|

| | |
|------------------------|---|
| Testing Laboratory | Institut für Solartechnik SPF, CH-8640 Rapperswil |
| Website | www.spf.ch |
| Test report id. number | S239QPEN; S238EN |
| Date of test report | 2018-02-20 |
| Test method | S239QPEN; S238EN |

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|--|--|
| Comments of test lab | SN 150/1 TP was tested as the "medium" subtype under SPF Test Number S238. |
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|------------------------------------|-----------|--------------|-------------------|--------------|
| Summary of | EN12976-2 | test results | Certification No. | 011-7S2838 A |
| Annex to Solar KEYMARK Certificate | | | Issued | 2017-02-21 |

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| Company | Riello S.p.A. | Country | Italy |
| Brand (optional) | Sylber | Website | www.sylber.it |
| Street | Via Ing. Pilade Riello 7 | E-mail | info@riello.com |
| Postal Code | IT-37045 Legnago | Tel. / Fax | +39 0499 323911 |

System family overview

| Collector name | For each storage and collector size, give number of collectors | | | | | | | | | | | | |
|----------------|--|--|--|-------|--|--|-------|--|--|-------|---|--|--|
| | 150lt | | | 200lt | | | 220lt | | | 300lt | | | |
| CP20TSS | 1 | | | 1 | | | 2 | | | 2 | 3 | | |

| | | | | | | | | | | | | | |
|------------------------------|--------------------------|----------------|---|--------------|-------|--|--|--|--|--|--|--|--|
| Name of system configuration | SN 200/1 TP; SN 200/1 TI | | | | | | | | | | | | |
| Collector name | CP20TSS | No. Collectors | 1 | Storage name | 200lt | | | | | | | | |

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 | 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 | -- | 9492 | 3332 | -- | 35 | 11164 | 3483 | -- | 31 | 13939 | 3638 | -- | 26 | | | |
| WürzburgDE | -- | 9114 | 3573 | -- | 39 | 10691 | 3731 | -- | 35 | 13371 | 3878 | -- | 29 | | | |
| Davos CH | -- | 10281 | 4894 | -- | 48 | 12110 | 5098 | -- | 42 | 15137 | 5283 | -- | 35 | | | |
| Athens GR | -- | 7064 | 4747 | -- | 67 | 8326 | 5145 | -- | 62 | 10407 | 5505 | -- | 53 | | | |

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 | | Stockholm SE | Würzburg DE | Davos CH | Athens GR |
|-----------------|--------------------|--------------|-------------|----------|-----------|
| | G | 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 | 250 | kPa | Max. operating press. - tank side | 1'000 | kPa |
|--|-----|-----|-----------------------------------|-------|-----|

| | |
|------------------------|---|
| Testing Laboratory | Institut für Solartechnik SPF, CH-8640 Rapperswil |
| Website | www.spf.ch |
| Test report id. number | S239QPEN; S238EN |
| Date of test report | 2018-02-20 |
| Test method | S239QPEN; S238EN |

Comments of test lab

The SPF test number for the system subtype SN 200/1 TP is S238 ST1. The annual performance for the system subtype was calculated according to the Specific CEN Keymark Scheme Rules for system families.





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|------------------------------------|-----------|--------------|-------------------|--------------|
| Summary of | EN12976-2 | test results | Certification No. | 011-7S2838 A |
| Annex to Solar KEYMARK Certificate | | | Issued | 2017-02-21 |

| | | | |
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| Street | Via Ing. Pilade Riello 7 | E-mail | info@riello.com |
| Postal Code | IT-37045 Legnago | Tel. / Fax | +39 0499 323911 |

System family overview

| Collector name | For each storage and collector size, give number of collectors | | | | | | | | | | | | | | |
|----------------|--|--|--|-------|--|---|-------|--|--|-------|---|--|--|--|--|
| | 150lt | | | 200lt | | | 220lt | | | 300lt | | | | | |
| CP20TSS | 1 | | | 1 | | 2 | | | | 2 | 3 | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|------------------------------|--------------------------|----------------|---|--------------|-------|--|--|--|--|--|--|--|--|--|--|
| Name of system configuration | SN 220/2 TP; SN 220/2 TI | | | | | | | | | | | | | | |
| Collector name | CP20TSS | No. Collectors | 2 | Storage name | 220lt | | | | | | | | | | |

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 | 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 | -- | 9492 | 4955 | -- | 52 | 11164 | 5392 | -- | 48 | 13939 | 5826 | -- | 42 |
| WürzburgDE | -- | 9114 | 5122 | -- | 56 | 10691 | 5613 | -- | 53 | 13371 | 6231 | -- | 47 |
| Davos CH | -- | 10281 | 7526 | -- | 73 | 12110 | 8174 | -- | 68 | 15137 | 8840 | -- | 58 |
| Athens GR | -- | 7064 | 6089 | -- | 86 | 8326 | 6835 | -- | 82 | 10407 | 7878 | -- | 76 |

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 | | Stockholm SE | Würzburg DE | Davos CH | Athens GR |
|-----------------|--------------------|--------------|-------------|----------|-----------|
| | G | 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 | 300 | kPa | Max. operating press. - tank side | 1'000 | kPa |
|--|-----|-----|-----------------------------------|-------|-----|

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|------------------------|---|
| Testing Laboratory | Institut für Solartechnik SPF, CH-8640 Rapperswil |
| Website | www.spf.ch |
| Test report id. number | S239QPEN; S238EN |
| Date of test report | 2018-02-20 |
| Test method | S239QPEN; S238EN |

Comments of test lab

The SPF test number for the system subtype SN 220/2 TP is S238 ST2. The annual performance for the system subtype was calculated according to the Specific CEN Keymark Scheme Rules for system families.





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|------------------------------------|-----------|--------------|-------------------|--------------|
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| Postal Code | IT-37045 Legnago | Tel. / Fax | +39 0499 323911 |

System family overview

| Collector name | For each storage and collector size, give number of collectors | | | |
|----------------|--|-------|-------|-------|
| | 150lt | 200lt | 220lt | 300lt |
| CP20TSS | 1 | 1 | 2 | 2 3 |
| | | | | |
| | | | | |
| | | | | |

| | | | | | |
|------------------------------|--------------------------|----------------|---|--------------|-------|
| Name of system configuration | SN 300/2 TP; SN 300/2 TI | | | | |
| Collector name | CP20TSS | No. Collectors | 2 | Storage name | 300lt |

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,sh | | Qpar | | Qd,sh | | Qpar | | Qd,sh | | Qpar | |
| | | MJ/y | QL | MJ/y | fsol | MJ/y | QL | MJ/y | fsol | MJ/y | QL | MJ/y | fsol |
| Stockholm SE | -- | 13939 | 6091 | -- | 44 | 16746 | 6497 | -- | 39 | 22327 | 7011 | -- | 31 |
| WürzburgDE | -- | 13371 | 6472 | -- | 48 | 16052 | 6966 | -- | 43 | 21413 | 7366 | -- | 34 |
| Davos CH | -- | 15137 | 9173 | -- | 61 | 18165 | 9682 | -- | 53 | 24220 | 10124 | -- | 42 |
| Athens GR | -- | 10407 | 8045 | -- | 77 | 12488 | 8967 | -- | 72 | 16651 | 10174 | -- | 61 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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 | | Stockholm SE | Würzburg DE | Davos CH | Athens GR |
|-----------------|--------------------|--------------|-------------|----------|-----------|
| | G | 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 | 250 | kPa | Max. operating press. - tank side | 1'000 | kPa |
|--|-----|-----|-----------------------------------|-------|-----|

| | |
|------------------------|---|
| Testing Laboratory | Institut für Solartechnik SPF, CH-8640 Rapperswil |
| Website | www.spf.ch |
| Test report id. number | S239QPEN; S238EN |
| Date of test report | 2018-02-20 |
| Test method | S239QPEN; S238EN |

Comments of test lab

The SPF test number for the system subtype SN 300/2 TP is S238 ST3. The annual performance for the system subtype was calculated according to the Specific CEN Keymark Scheme Rules for system families.



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| Street | Via Ing. Pilade Riello 7 | E-mail | info@riello.com |
| Postal Code | IT-37045 Legnago | Tel. / Fax | +39 0499 323911 |

System family overview

| Collector name | For each storage and collector size, give number of collectors | | | |
|----------------|--|-------|-------|-------|
| | 150lt | 200lt | 220lt | 300lt |
| CP20TSS | 1 | 1 | 2 | 2 3 |
| | | | | |
| | | | | |
| | | | | |

| | | | | | |
|------------------------------|--------------------------|----------------|---|--------------|-------|
| Name of system configuration | SN 300/3 TP; SN 300/3 TI | | | | |
| Collector name | CP20TSS | No. Collectors | 3 | Storage name | 300lt |

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 | 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 | -- | 13939 | 7374 | -- | 53 | 16746 | 8071 | -- | 48 | 22327 | 9020 | -- | 40 |
| WürzburgDE | -- | 13371 | 7622 | -- | 57 | 16052 | 8459 | -- | 53 | 21413 | 9422 | -- | 44 |
| Davos CH | -- | 15137 | 11262 | -- | 74 | 18165 | 12316 | -- | 68 | 24220 | 13248 | -- | 55 |
| Athens GR | -- | 10407 | 9044 | -- | 87 | 12488 | 10278 | -- | 82 | 16651 | 12139 | -- | 73 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

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 | | Stockholm SE | Würzburg DE | Davos CH | Athens GR |
|-----------------|--------------------|--------------|-------------|----------|-----------|
| | G | 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 | 250 | kPa | Max. operating press. - tank side | 1'000 | kPa |
|--|-----|-----|-----------------------------------|-------|-----|

| | |
|------------------------|---|
| Testing Laboratory | Institut für Solartechnik SPF, CH-8640 Rapperswil |
| Website | www.spf.ch |
| Test report id. number | S239QPEN; S238EN |
| Date of test report | 2018-02-20 |
| Test method | S239QPEN; S238EN |

Comments of test lab

The SPF test number for the system subtype SN 300/3 TP is S238 ST4. The annual performance for the system subtype was calculated according to the Specific CEN Keymark Scheme Rules for system families.



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