## AUTOCERTIFICAZIONE DEL COSTRUTTORE

*(ai sensi del D.M. 07 agosto 2025 e del D.P.R. n. 445/2000)*

La sottoscritta società PLEION s.p.a., dichiara che gli apparecchi della tipologia INTERVENTO III.D – art.8, comma 1, lettera d, elencati nell'allegato A e immessi sul mercato dalla stessa, soddisfano:

- **i requisiti tecnici,** richiesti nel **DM 07 agosto 2025, misurati secondo le metodologie previste dalla specifica normativa tecnica di riferimento:**

**III.D) Solare termico**

- Impianti prefabbricati Factory Made, normativa di riferimento: UNI EN 12976

Rappresentante legale: Adalberto Scarrone

Pleion S.p.A. - Società con unico Socio
Via Venezia, 11 - 37053 CEREA (VR)
Tel. 0442 320295 E-mail: info@pleion.it
pleion@pec.pleion.it
Capitale sociale € 500.000 i.v.
C.F., P.I. e R.I. di VR 03820120230
R.E.A. 368332

## AUTOCERTIFICAZIONE DEL COSTRUTTORE

*(ai sensi del D.M. 07 agosto 2025 e del D.P.R. n. 445/2000)*

## ALLEGATO A

## ELENCO APPARECCHI CONFORMI AL CONTO TERMICO
## (con relativi dati tecnici)

| PRODOTTO | SOLAR KEYMARK | QL [MJ/anno] | AG [$m^2$] | Aa [$m^2$] | PRODUCIBILITA' SPECIFICA [kWht/$m^2$ anno] | ANNI GARANZIA |
|---|---|---|---|---|---|---|
| EGO 110 | 17021 Rev.1 | 2365 | 1,52 | 1,09 | 603 | 5 |
| EGO 150 | 17021 Rev.1 | 3168 | 1,93 | 1,48 | 595 | 5 |
| EGO 180 | 17021 Rev.1 | 3926 | 2,35 | 1,86 | 586 | 5 |
| EGO 220 | 17021 Rev.1 | 4727 | 2,77 | 2,25 | 584 | 5 |
| EGO 260 | 17021 Rev.1 | 5693 | 3,18 | 2,64 | 599 | 5 |
| EGO PRIME 110 | 15558 Rev.2 | 2365 | 1,28 | 1,09 | 603 | 5 |
| EGO PRIME 150 | 15559 Rev.2 | 3168 | 1,68 | 1,48 | 595 | 5 |
| EGO PRIME 180 | 15560 Rev.2 | 3926 | 2,08 | 1,86 | 586 | 5 |
| EGO PRIME 220 | 15561 Rev.2 | 4727 | 2,48 | 2,25 | 584 | 5 |
| EGO PRIME 260 | 15562 Rev.2 | 5639 | 2,88 | 2,64 | 593 | 5 |
| FREE S 150.1.20 | 011-7S3285 A | 4120 | 2,02 | 1,83 | 625 | 5 |
| FREE S 200.1.20 | 011-7S3285 A | 5023 | 2,02 | 1,83 | 762 | 5 |
| FREE S 300.2.25 | 011-7S3285 A | 9435 | 5,04 | 4,64 | 565 | 5 |

Rappresentante legale: Adalberto Scarrone

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Tel. 0442 320295 E-mail: info@pleion.it
pleion@pec.pleion.it
Capitale sociale € 500.000 i.v.
C.F., P.I. e R.I. di VR 03820120230
R.E.A. 368332

CERTIFICATE

| | | | |
|---|---|---|---|
| Certificate number | 15558 Rev.2 | Replaces | 15558 Rev.1 |
| Issued | 04/04/2023 | First edition | 04/04/2018 |
| Report number | PKC0001762 | Expiry date | 15/12/2026 |
| Page | 1 of 1 | Contract number | PKC0003652 |

# Product Certificate Solar Thermal Products

**License holder:** **Pleion S.p.A.**
Via Venezia 11 – 37053 Cerea (VR), Italy

**Production site(s):** Pleion S.p.A.
Via Venezia 11 – 37053 Cerea (VR), Italy

**Product** Solar thermal system

**Model(s):** EGO Prime 110; EGO Prime 150; EGO Prime 180; EGO Prime 220; EGO Prime 260

Kiwa Cermet Italia hereby declares that the product can be considered complying to the testing requirements and is entitled to use the Solar Keymark Label, based upon the following aspects:

Laboratory testing of the solar thermal products, which are performed by an accredited laboratory in accordance to EN ISO/IEC 17025:2005 -see annex-, using the following standards:

- EN 12976-2:2006; EN 12976-2:2017 (mechanical load test)
  Thermal solar systems and components - Factory made systems - Part 2: Test methods

Specific CEN Keymark Scheme Rules for Solar Thermal Products SKN_N0444R6.

Periodic Inspection of the Factory site(s) performed by Kiwa Cermet Italia.
A description of the test results is given in the annex to this certificate.

*This certificate is issued in accordance with the Kiwa Cermet Italia regulations.*
*Publication of the certificate is allowed.*
*The validity of this certificate is subject to the positive result of periodic surveillance visits.*
*The validity of this certificate can be verified on request at the following e-mail address: energy@kiwacermet.it.*
*Any total or partial reproduction of this document in any form, without Kiwa Cermet Italia express authorization, is prohibited.*

President
Giampiero Belcredi

**Kiwa Cermet Italia S.p.A.**
**Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl**
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40057 Granarolo dell'Emilia (BO)
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Fax +39.051.763.382
E-mail: info@kiwacermet.it
www.kiwa.it

034

PRD N° 069B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
*Signatory of EA, IAF and ILAC Mutual Recognition Agreements*

| Summary of | EN12976-2 | SOLAR SYSTEM test results | Licence Number | 15558 Rev.2 |
|---|---|---|---|---|
| Annex to Solar KEYMARK Certificate | | | Issued | 2023-04-04 |

| | | | | | |
|---|---|---|---|---|---|
| Company | Pleion S.p.A. | | Country | Italy | |
| Brand (optional) | | | Website | www.pleion.it | |
| Street | Via Venezia 11 | | E-mail | info@pleion.it | |
| Postal Code | 37053 | Cerea (VR) | Tel. / Fax | +39 | 0442320295 |

| System classification | |
|---|---|
| Application(s) | Hot water |
| Solar loop, circulation principle | Thermosyphon |
| Direct solar loop / heat exchanger | Direct |
| Open, vented or closed solar loop | Closed |
| Drain back/down | Always filled (no drain) |
| Store location | Int. collector-store |
| Store orientation (of main axis) | Horizontal |
| Type of auxiliary heating (internal back-up heat) | None |
| If other auxiliary/internal back-up heating, please specifiy: | |
| Solar+supplementary OR Solar-only / Solar pre-heat | Solar only / Solar preheat |

| Collector(s) | | | |
|---|---|---|---|
| Company | Pleion S.p.A. | | |
| *Keymark lic.no. if available* | | | |
| Collector name | Per module: Gross Area (AG) | Per module: Gross length | Per module: Gross width |
| | m² | mm | mm |
| EGO Prime 110 | 1.28 | 2055 | 620 |
| EGO Prime 150 | 1.68 | 2055 | 815 |
| EGO Prime 180 | 2.08 | 2055 | 1010 |
| EGO Prime 220 | 2.48 | 2055 | 1205 |
| EGO Prime 260 | 2.88 | 2055 | 1400 |

| Heat store(s) | | | | | | |
|---|---|---|---|---|---|---|
| Company | Pleion S.p.A. | | | | | |
| *Keymark lic.no. if available* | | | | | | |
| Store name | Total nominal volume | Gross height | Gross width | Gross depth | Auxiliary heated volume | Electrical aux. heating power |
| | litres | mm | mm | mm | litres | kW |
| EGO Prime 110 | 105 | 1870 | | | | |
| EGO Prime 150 | 140 | 1870 | | | | |
| EGO Prime 180 | 175 | 1870 | | | | |
| EGO Prime 220 | 210 | 1870 | | | | |
| EGO Prime 260 | 245 | 1870 | | | | |

| Solar loop controller | | | | Solar loop fluid | | |
|---|---|---|---|---|---|---|
| *Keymark lic.no. if available* | | | | Recommended/required | | |
| Company | | | | Company | | |
| Name | | | | Name | | |
| Solar loop pump - power range | W | to | W | Freezing point | | °C |

**System family overview**

| Collector name | Number of collectors in each configuration for each store: Store name: EGO Prime 110 | EGO Prime 150 | EGO Prime 180 | EGO Prime 220 | EGO Prime 260 |
|---|---|---|---|---|---|
| EGO Prime 110 | 1 | | | | |
| EGO Prime 150 | | 1 | | | |
| EGO Prime 180 | | | 1 | | |
| EGO Prime 220 | | | | 1 | |
| EGO Prime 260 | | | | | 1 |

| | |
|---|---|
| Testing Laboratory | ENEA - Centro Ricerche Trisaia |
| Website | http://www.trisaia.enea.it |
| Test report id. number | RP.2016.SYS.191.1; RP.2018.SYS.201.1 |
| Date of test report | 2016-12-15; 2018-03-26 |

**Comments of test lab**

Additional test reports: RP.2016.SYS.191a.1 issued by ENEA - Centro Ricerche Trisaia on 21/12/2016.

Aperture area of collectors: EGO Prime 110: 1.09 m²; EGO Prime 150: 1.48 m²; EGO Prime 180: 1.86 m²; EGO Prime 220: 2.25 m²; EGO Prime 260: 2.64 m².

ENEA
TERIN-STSN
Dr. Vincenzo Sabatelli



Kiwa Cermet Italia S.p.A. • Via Cadriano, 23
• 40057 Granarolo dell'Emilia (BO) • Italy
Tel: +39 0514593111 • Fax: +39 051763382 • E-Mail: info@kiwacermet.it • www.kiwa.com

| Summary of | EN12976-2 | test results | Certification No. | 15558 Rev.2 |
|---|---|---|---|---|
| Annex to Solar KEYMARK Certificate | | | Issued | 2023-04-04 |

| | | | |
|---|---|---|---|
| Company | Pleion S.p.A. | Country | Italy |
| Brand (optional) | | Website | www.pleion.it |
| Street | Via Venezia 11 | E-mail | info@pleion.it |
| Postal Code | 37053 Cerea (VR) | Tel. / Fax | +39 0442320295 |

**System family overview**

| Collector name | For each storage and collector size, give number of collectors | | | | | |
|---|---|---|---|---|---|---|
| | EGO Prime 110 | EGO Prime 150 | EGO Prime 180 | EGO Prime 220 | EGO Prime 260 | |
| EGO Prime 110 | 1 | | | | | |
| EGO Prime 150 | | 1 | | | | |
| EGO Prime 180 | | | 1 | | | |
| EGO Prime 220 | | | | 1 | | |
| EGO Prime 260 | | | | | 1 | |

| | | | |
|---|---|---|---|
| Name of system configuration | | | EGO Prime 110 |
| Collector name | EGO Prime 110 | No. Collectors | 1 |
| | | Storage name | EGO Prime 110 |

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

| Location | Qd,sh | Daily drawoff 80 l | | | | Daily drawoff 110 l | | | | Daily drawoff 140 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 | | 4461 | 1829 | | 0.41 | 6134 | 2104 | | 0.34 | 7808 | 2186 | | 0.28 |
| WürzburgDE | | 4278 | 2013 | | 0.47 | 5882 | 2365 | | 0.40 | 7487 | 2459 | | 0.33 |
| Davos CH | | 4840 | 2663 | | 0.55 | 6655 | 3011 | | 0.45 | 8471 | 3121 | | 0.37 |
| Athens GR | | 3325 | 2466 | | 0.74 | 4571 | 3043 | | 0.67 | 5818 | 3362 | | 0.58 |
| Optional OP | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**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 | Optional OP | | |
|---|---|---|---|---|---|---|---|---|
| | 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 | 400 | kPa | Max. operating press. - tank side | 400 | kPa |

| | |
|---|---|
| Testing Laboratory | ENEA - Centro Ricerche Trisaia |
| Website | http://www.trisaia.enea.it |
| Test report id. number | RP.2016.SYS.191.1; RP.2018.SYS.201.1 |
| Date of test report | 2016-12-15; 2018-03-26 |
| Test method | ISO 9459-2 (CSTG) |

| Comments of test lab | |
|---|---|
| Additional test report: RP.2016.SYS.191a.1. | ENEA<br>TERIN-STSN<br>Dr. Vincenzo Sabatelli |

*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. | 15558 Rev.2 |
|---|---|---|---|---|
| Annex to Solar KEYMARK Certificate | | | Issued | 2023-04-04 |

| | | | | | |
|---|---|---|---|---|---|
| Company | Pleion S.p.A. | | Country | Italy | |
| Brand (optional) | | | Website | www.pleion.it | |
| Street | Via Venezia 11 | | E-mail | info@pleion.it | |
| Postal Code | 37053 | Cerea (VR) | Tel. / Fax | +39 | 0442320295 |

**System family overview**

| Collector name | For each storage and collector size, give number of collectors | | | | |
|---|---|---|---|---|---|
| | EGO Prime 110 | EGO Prime 150 | EGO Prime 180 | EGO Prime 220 | EGO Prime 260 |
| EGO Prime 110 | 1 | | | | |
| EGO Prime 150 | | 1 | | | |
| EGO Prime 180 | | | 1 | | |
| EGO Prime 220 | | | | 1 | |
| EGO Prime 260 | | | | | 1 |

| Name of system configuration | | | | | |
|---|---|---|---|---|---|
| | | | | EGO Prime 150 | |
| Collector name | EGO Prime 150 | No. Collectors | 1 | Storage name | EGO Prime 150 |

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

| Location | Qd,sh | 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 | MJ/y | % |
| Stockholm SE | | 6134 | 2529 | | 0.41 | 7808 | 2833 | | 0.36 | 9481 | 2947 | | 0.31 |
| WürzburgDE | | 5882 | 2782 | | 0.47 | 7487 | 3168 | | 0.42 | 9091 | 3313 | | 0.36 |
| Davos CH | | 6655 | 3682 | | 0.55 | 8471 | 4064 | | 0.48 | 10286 | 4209 | | 0.41 |
| Athens GR | | 4571 | 3401 | | 0.74 | 5818 | 4007 | | 0.69 | 7065 | 4403 | | 0.62 |
| Optional OP | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**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 | Optional OP | | |
|---|---|---|---|---|---|---|---|---|
| | 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 | 400 | kPa | Max. operating press. - tank side | 400 | kPa |
|---|---|---|---|---|---|

| | |
|---|---|
| Testing Laboratory | ENEA - Centro Ricerche Trisaia |
| Website | http://www.trisaia.enea.it |
| Test report id. number | RP.2016.SYS.191.1; RP.2018.SYS.201.1 |
| Date of test report | 2016-12-15; 2018-03-26 |
| Test method | ISO 9459-2 (CSTG) |

| Comments of test lab | |
|---|---|
| Additional test report: RP.2016.SYS.191a.1. | ENEA<br>TERIN-STSN<br>Dr. Vincenzo Sabatelli |

*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. | 15558 Rev.2 |
|---|---|---|---|---|
| Annex to Solar KEYMARK Certificate | | | Issued | 2023-04-04 |

| | | | | |
|---|---|---|---|---|
| Company | Pleion S.p.A. | | Country | Italy |
| Brand (optional) | | | Website | www.pleion.it |
| Street | Via Venezia 11 | | E-mail | info@pleion.it |
| Postal Code | 37053 | Cerea (VR) | Tel. / Fax | +39 0442320295 |

**System family overview**

| Collector name | For each storage and collector size, give number of collectors | | | | |
|---|---|---|---|---|---|
| | EGO Prime 110 | EGO Prime 150 | EGO Prime 180 | EGO Prime 220 | EGO Prime 260 |
| EGO Prime 110 | 1 | | | | |
| EGO Prime 150 | | 1 | | | |
| EGO Prime 180 | | | 1 | | |
| EGO Prime 220 | | | | 1 | |
| EGO Prime 260 | | | | | 1 |

| Name of system configuration | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | EGO Prime 180 | | |
| Collector name | EGO Prime 180 | No. Collectors | 1 | Storage name | EGO Prime 180 | | |

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

| Location | Qd,sh | Daily drawoff 140 l | | | | Daily drawoff 170 l | | | | Daily drawoff 200 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 | | 7808 | 3227 | | 0.41 | 9481 | 3521 | | 0.37 | 11154 | 3676 | | 0.33 |
| WürzburgDE | | 7487 | 3549 | | 0.47 | 9091 | 3926 | | 0.43 | 10695 | 4131 | | 0.39 |
| Davos CH | | 8471 | 4698 | | 0.55 | 10286 | 5056 | | 0.49 | 12101 | 5253 | | 0.43 |
| Athens GR | | 5818 | 4334 | | 0.74 | 7065 | 4931 | | 0.70 | 8312 | 5386 | | 0.65 |
| Optional OP | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**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 | Optional OP | | |
|---|---|---|---|---|---|---|---|---|
| | 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 | 400 | kPa | Max. operating press. - tank side | 400 | kPa |
|---|---|---|---|---|---|

| | |
|---|---|
| Testing Laboratory | ENEA - Centro Ricerche Trisaia |
| Website | http://www.trisaia.enea.it |
| Test report id. number | RP.2016.SYS.191.1; RP.2018.SYS.201.1 |
| Date of test report | 2016-12-15; 2018-03-26 |
| Test method | ISO 9459-2 (CSTG) |

| Comments of test lab | |
|---|---|
| Additional test report: RP.2016.SYS.191a.1. | ENEA<br>TERIN-STSN<br>Dr. Vincenzo Sabatelli |

*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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| Summary of | EN12976-2 | test results | Certification No. | 15558 Rev.2 |
|---|---|---|---|---|
| Annex to Solar KEYMARK Certificate | | | Issued | 2023-04-04 |

| | | | | |
|---|---|---|---|---|
| Company | Pleion S.p.A. | | Country | Italy |
| Brand (optional) | | | Website | www.pleion.it |
| Street | Via Venezia 11 | | E-mail | info@pleion.it |
| Postal Code | 37053 | Cerea (VR) | Tel. / Fax | +39 0442320295 |

**System family overview**

| Collector name | For each storage and collector size, give number of collectors | | | | | |
|---|---|---|---|---|---|---|
| | EGO Prime 110 | EGO Prime 150 | EGO Prime 180 | EGO Prime 220 | EGO Prime 260 | |
| EGO Prime 110 | 1 | | | | | |
| EGO Prime 150 | | 1 | | | | |
| EGO Prime 180 | | | 1 | | | |
| EGO Prime 220 | | | | 1 | | |
| EGO Prime 260 | | | | | 1 | |

| Name of system configuration | | | | | |
|---|---|---|---|---|---|
| | | | | EGO Prime 220 | |
| Collector name | EGO Prime 220 | No. Collectors | 1 | Storage name | EGO Prime 220 |

**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 | 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 | | 9481 | 3930 | | 0.41 | 11154 | 4252 | | 0.38 | 13942 | 4484 | | 0.32 |
| WürzburgDE | | 9091 | 4321 | | 0.48 | 10695 | 4727 | | 0.44 | 13369 | 5037 | | 0.38 |
| Davos CH | | 10286 | 5734 | | 0.56 | 12101 | 6120 | | 0.51 | 15126 | 6405 | | 0.42 |
| Athens GR | | 7065 | 5268 | | 0.75 | 8312 | 5892 | | 0.71 | 10390 | 6621 | | 0.64 |
| Optional OP | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**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 | Optional OP | | |
|---|---|---|---|---|---|---|---|---|
| | 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 | 400 | kPa | Max. operating press. - tank side | 400 kPa |

| | |
|---|---|
| Testing Laboratory | ENEA - Centro Ricerche Trisaia |
| Website | http://www.trisaia.enea.it |
| Test report id. number | RP.2016.SYS.191.1; RP.2018.SYS.201.1 |
| Date of test report | 2016-12-15; 2018-03-26 |
| Test method | ISO 9459-2 (CSTG) |

| Comments of test lab | |
|---|---|
| Additional test report: RP.2016.SYS.191a.1. | ENEA<br>TERIN-STSN<br>Dr. Vincenzo Sabatelli |

*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. | 15558 Rev.2 |
|---|---|---|---|---|
| Annex to Solar KEYMARK Certificate | | | Issued | 2023-04-04 |

| | | | | |
|---|---|---|---|---|
| Company | Pleion S.p.A. | | Country | Italy |
| Brand (optional) | | | Website | www.pleion.it |
| Street | Via Venezia 11 | | E-mail | info@pleion.it |
| Postal Code | 37053 | Cerea (VR) | Tel. / Fax | +39 0442320295 |

**System family overview**

| Collector name | For each storage and collector size, give number of collectors | | | | |
|---|---|---|---|---|---|
| | EGO Prime 110 | EGO Prime 150 | EGO Prime 180 | EGO Prime 220 | EGO Prime 260 |
| EGO Prime 110 | 1 | | | | |
| EGO Prime 150 | | 1 | | | |
| EGO Prime 180 | | | 1 | | |
| EGO Prime 220 | | | | 1 | |
| EGO Prime 260 | | | | | 1 |

| Name of system configuration | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | EGO Prime 260 | |
| Collector name | EGO Prime 260 | No. Collectors | 1 | Storage name | EGO Prime 260 | | |

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

| Location | Qd,sh | Daily drawoff 200 l | | | | Daily drawoff 250 l | | | | Daily drawoff 300 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 | | 11154 | 4642 | | 0.42 | 13942 | 5097 | | 0.37 | 16730 | 5283 | | 0.32 |
| WürzburgDE | | 10695 | 5101 | | 0.48 | 13369 | 5693 | | 0.43 | 16043 | 5932 | | 0.37 |
| Davos CH | | 12101 | 6760 | | 0.56 | 15126 | 7318 | | 0.48 | 18151 | 7544 | | 0.42 |
| Athens GR | | 8312 | 6215 | | 0.75 | 10390 | 7178 | | 0.69 | 12468 | 7845 | | 0.63 |
| Optional OP | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**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 | Optional OP | | |
|---|---|---|---|---|---|---|---|---|
| | 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 | 400 | kPa | Max. operating press. - tank side | 400 | kPa |
|---|---|---|---|---|---|

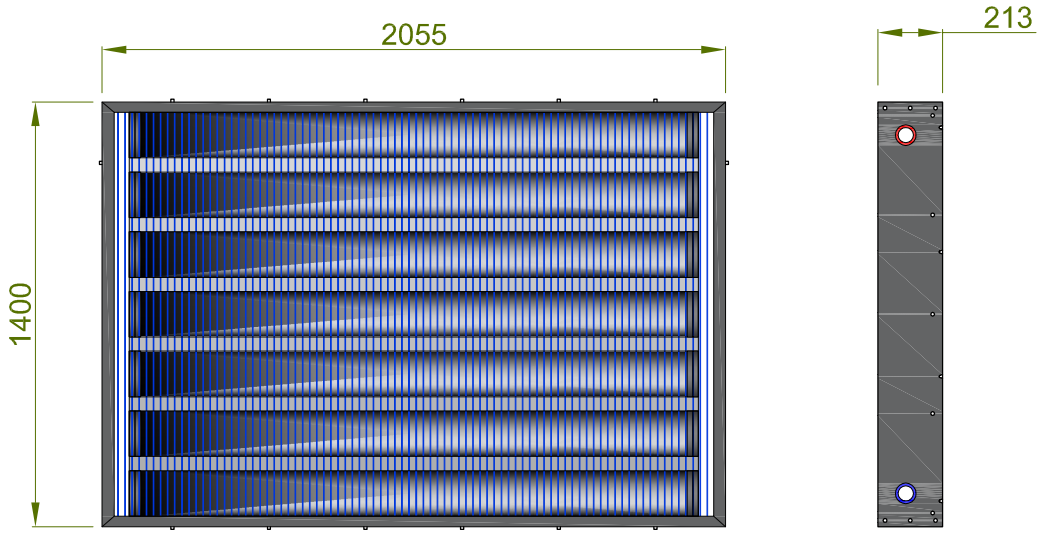
| | |
|---|---|
| Testing Laboratory | ENEA - Centro Ricerche Trisaia |
| Website | http://www.trisaia.enea.it |
| Test report id. number | RP.2016.SYS.191.1; RP.2018.SYS.201.1 |
| Date of test report | 2016-12-15; 2018-03-26 |
| Test method | ISO 9459-2 (CSTG) |

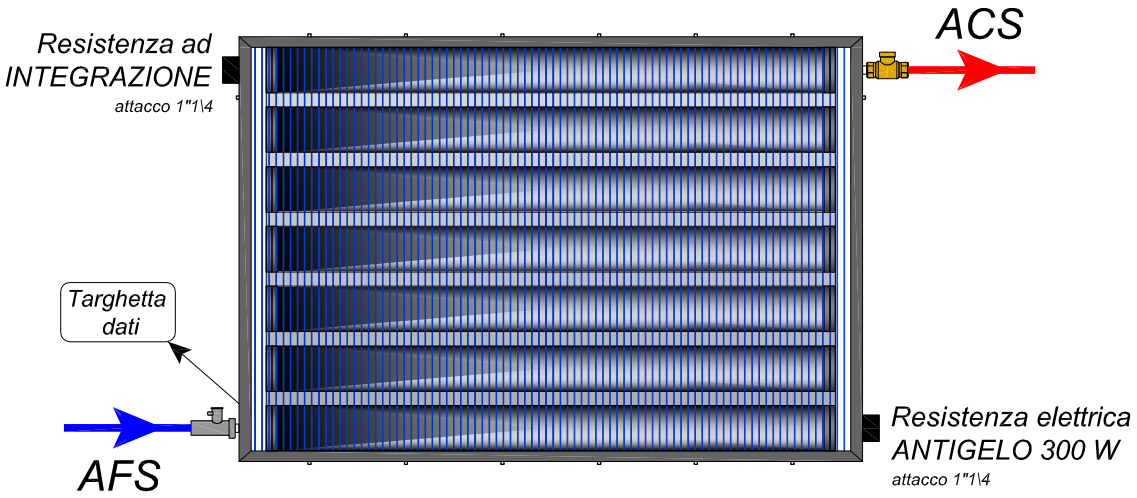
| Comments of test lab |
|---|
| Additional test report: RP.2016.SYS.191a.1. |

ENEA
TERIN-STSN
Dr. Vincenzo Sabatelli

*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*




# EGO PRIME 260

COLLETTORE SOLARE A CIRCOLAZIONE NATURALE ***EGO PRIME*** CON INNOVATIVO E BREVETTATO ACCUMULO INTEGRATO PER IL RISCALDAMENTO DIRETTO DELL'ACQUA AD USO SANITARIO. IL SISTEMA HA UN ACCUMULO INTERNO IN ACCIAIO INOX PER APLICAZIONI MARINE, IDONEO ALLO STOCCAGGIO DI QUALSIASI ACQUA POTABILE. FORMATO DA UNA SERIE DI TUBI DI CAPACITA' 35 LITRI, COLLEGATI ALLE LORO ESTREMITA' PER MEZZO DI ACCOPPIAMENTO TRA CALOTTE IN PLASTICA E CURVE IN MATERIALE METALLICO, CHE ASSICURANO LA TENUTA IN PRESSIONE FINO A 10 BAR, DOTATO DI ATTACCHI IDRAULICI (ACQUA SANITARIA) DA 3/4" CON BATTUTA PIANA, PREDISPOSIZIONE ATTACCHI DA 1"1/4 PER INSTALLAZIONE DELLA RESISTENZA ELETTRICA DI INTEGRAZIONE TERMICA (PARTE ALTA) E RESISTENZA ELET. ANTIGELO (PARTE BASSA), STRUTTURA ESTERNA IN ALLUMINIO RESISTENTE AL ALTE TEMPERATURE, STRUTTURA INTERNA IL LAMIERA ZINCATA E COPERTURA FRONTALE IN POLICARBONATO ALVEOLARE LEXAN ANTIGRANDINE, DOTATO DI ELEVATE PROPRIETA' TERMICHE. DI SERIE STAFFE PER POSA SU TETTO PIANO E TETTO INCLINATO E DI VALVOLA DI PRESSIONE CON FUNZIONE COMBINATA ANTIRIFLUSSO.

| | | |
|---|---|---|
| CAPACITA' | [l] | 245 |
| DIMENSIONI: LUNGHEZZA | [mm] | 2.055 |
| LARGHEZZA | [mm] | 1.400 |
| ALTEZZA | [mm] | 213 |
| SUPERFICIE LORDA | [m²] | 2,88 |
| SUPERFICIE DI APERTURA | [m²] | 2,64 |
| SUPERFICIE ASSORBIMENTO | [m²] | 1,98 |
| PESO A VUOTO | [kg] | 58 |
| PESO IN ESERCIZIO | [kg] | 303 |
| NUMERO TUBI INTERNI | [-] | 7 x 35 lt |
| PRESSIONE MASSIMA ACQUA IN INGRESSO | [bar] | 3 |
| PRESSIONE MASSIMA ESERCIZIO | [kPa] | 400 |
| ISOLAMENTO PUR FONDO E LATERALE | [mm] | 30 / 25 |
| TEMPERATURA MASSIMA | [°C] | 90°C |
| RESISTENZA ELETRICA INTEGRAZIONE TERMICA (OPTIONAL): POTENZA | [kW] | 1,0 / 2,0 |
| TENSIONE - FREQUENZA | [V - Hz] | 220 - 50 |
| REGOLAZIONE | [°C] | +48 : +53 |
| RESISTENZA ELETRICA ANTIGELO (OPTIONAL): POTENZA | [W] | 300 |
| TENSIONE - FREQUENZA | [V - Hz] | 220 - 50 |
| REGOLAZIONE | [°C] | +4 : +8 |
| RACCORDI DI CONNESSIONE | [ inch ] | 2 X ¾" - M |
| CAMPO INCLINAZIONE | [°] | 15 - 60 |
| NUMERO PERSONE CONSIGLIATE | [-] | 5-6 |
| VALORE "QI" DA NORMATIVA al fabbisogno 250 lt/g - CALCOLO GSE | [Mj/an] | 5693 |

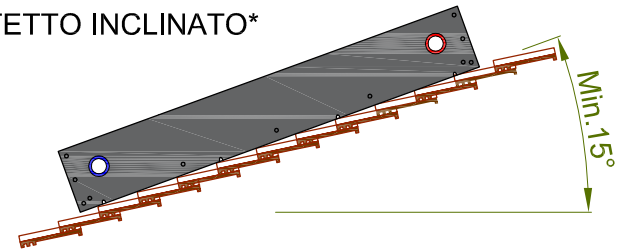
*VALORI ETA0, A1, A2: NON CALCOLATI E NON RICHIESTI DALLA NORMATIVA DI CERTIFICAZIONE DEL COLLETTORE SOLARE. RIFERIMENTO UNI EN 12976 PER ULTERIORI INFORMAZIONI SI RIMANDA ALL'UFFICIO TECNICO PLEION*

LEGENDA:

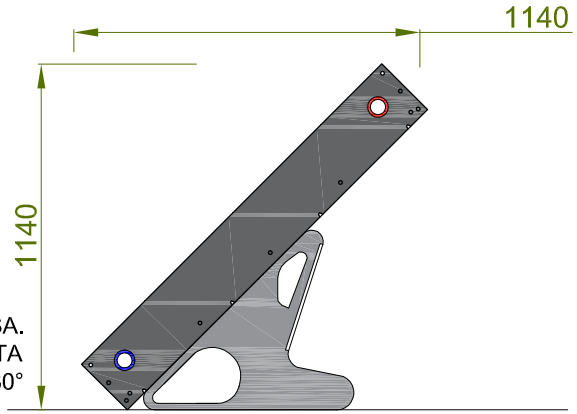
- VALVOLA DI SICUREZZA E NON RITORNO
- VALVOLA ROMPI-VUOTO
- AFS → ACQUA FREDDA SANITARIA TUBAZIONI *IN MATERIALE METALLICO O PLASTICO* DI DIAMETRO CONSIGLIATO 3/4"
- ACS → ACQUA CALDA SANITARIA TUBAZIONI IN *SOLO MATERIALE METALLICO* DI DIAMETRO CONSIGLIATO 3/4"

* FOLDERIA PER INSTALLAZIONE SU TETTO PIANO E TETTO INCLINATO PRESENTE DI SERIE NEL COLLETTORE.

INSTALLAZIONE TETTO INCLINATO*




INSTALLAZIONE TETTO PIANO*




** INCLINAZIONE FISSA. DISPONIBILI SU RICHIESTA VERSIONE A 30°

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| OGGETTO : COLLETTORE EGO PRIME 260 | | RIFERIMENTO : | |
|---|---|---|---|
| SCHEMA : scheda tecnica | DATA : 01.06.18 | DISEGNATO : E.L | CONTROLLATO : |
| REVISIONE : | | | |