

# ECO SKIN 2.0 - THE SECOND GENERATION

**NEW in Version 2.0**  
**38% ENERGY-SAVING**  
THANKS TO PERFECT FIT



istockphotos

# ECO SKIN 2.0 - THE SECOND GENERATION



**NEW**

**Even greater.  
Even available.**

- 38% improved insulation\*
- Additional floor insulation
- Improved connection layout
- Energy cost savings up to € 3.100



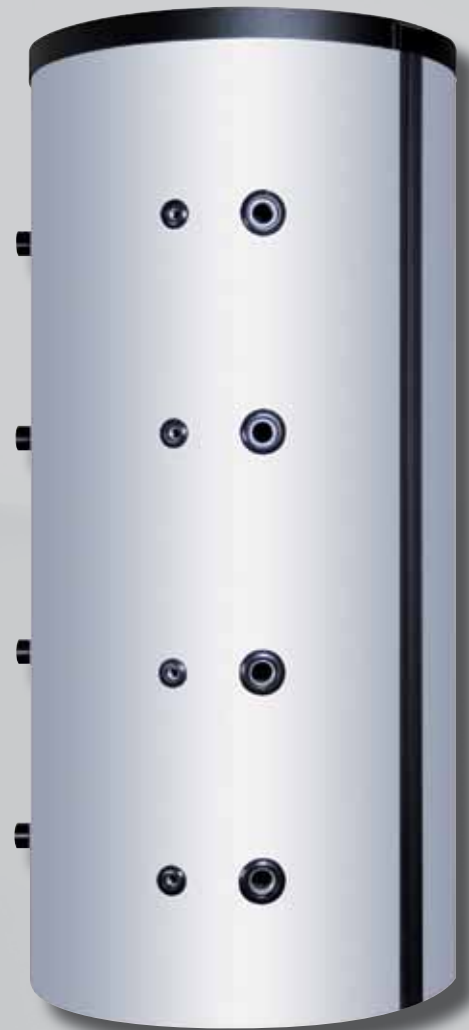
## ECO SKIN 2.0

The extremely successful ECO SKIN thermal insulation is used in the **second generation:** Improved thermal insulation characteristics and optimised fine adjustment during operation. We have made something good even better!

ECO SKIN 2.0 is an innovative insulation for large and buffer storage, which is an essential departure from the previously offered soft foam insulation.

### The convincing advantages of ECO SKIN 2.0

- Essentially improved insulation (+38%)\*
- Increased saving (up to € 3.100.-) over the life of a 1000 Litre storage tank
- Additional floor insulation
- Decidedly improved connection layout
- Perfect fitting of the rosettes
- Optimised seating of the caps
- Easy and faster assembly, even at low temperatures
- Elegant design
- Environmentally-friendly (100% recycling; 70% Recyclable material)
- Materials that are kind of the skin and non-allergy sensitive
- Perfect fit – therefore no chimney losses
- Insulated connection caps



\* with PSM 1000 in comparison to soft foam reference insulation

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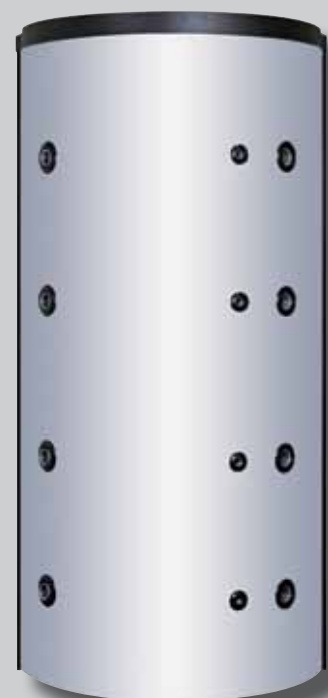
## The sustainable difference

Due to the 'clinging' nature of the new ECO SKIN 2.0 - Insulation and the new cover caps you can save money and reduce the unnecessary CO<sub>2</sub>-emissions. In total both products reduce the heat losses of a 1000 Litre buffer storage tank by **38 %\*** (compared with the previously offered soft foam insulation).

With these improvements Austria Email is already taking into account the objective of the European Union in the coming years of reducing the CO<sub>2</sub> emissions within the framework of the ECODE-SIGN DIRECTIVE.

## Best thermal insulation:

- Perfect fit – no chimney losses
- Essentially improved connection layout
- Heat losses reduced relative to previous soft foam model by 38%\*
- Insulated connection caps (without extra cost)
- Forward looking in view of oncoming EU requirements
- Fire protection class B2 (to DIN 4102-1)\*\*
- Quality packaging with carrying handles



\* Test results from own factory, accredited thermal technology laboratory

\*\* measured at the accredited Test Institute OFI Vienna (formerly "Arsenal")

## Fleece - a high quality, new insulation material

ECO SKIN 2.0 uses Polyester-fleece, which has outstanding characteristics and is used in the textile industry, for example, for the manufacture of comfortable warming, skin-friendly fleece jackets.

A further point, which has an essential impact on the efficiency of an insulation medium, is the processing of the connection features.

The engineers of Austria Email AG have developed a special production method for ECO SKIN 2.0, in order to increase the efficiency of the thermal insulation to a maximum.



Perfectly fitting shape, resulting in no stack losses

## Fleece is not just Fleece ECO SKIN 2.0 - the new Compact Fleece

- Unique structure of the fleece insulation preserves valuable energy
- Maximum thermal insulation guaranteed
- ECO SKIN saves money every day
- Quality from a single source



ECO SKIN - compact fleece

## The Austria Email package

- Everything from a single source - buffer storage and associated insulation material
- Short delivery time, thanks to local storage
- Prepared for future EU developments
- Outstanding technique and design
- ONE expert contact



Conventional layered fleece

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## Substantially improved connection set-up

### Insulating caps for the connections

Austria Email has also made another innovative improvement: Insulating the connections.

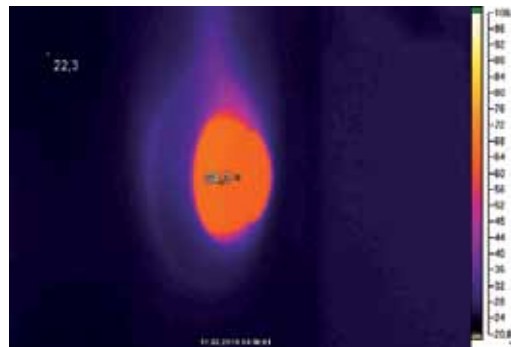
Cylinders have a host of connections, especially those used for renewable energy applications. However, not all of these are actually connected to other components, which causes losses of valuable energy if the connections are not insulated.

Austria Email has developed insulating caps for the connections in order to save additional further energy. They are easy to fit and easy to remove if you have to connect something subsequently.

The infrared images show the significantly improved thermal insulation in the vicinity of the connections.



Heating connection without a cover cap



Infrared image without a cover cap



Heating connection with a cover cap



Infrared image with a cover cap



## You can depend on our specified data

### Precise, proven specifications

Even though Austria Email has its own certified laboratory, we have nonetheless commissioned the renowned ITW institute in Stuttgart to test the effectiveness of our new insulation.

ITW Stuttgart is the largest testing centre for solar thermal systems and components in Europe and plays a key role in preparing the standards and test procedures that are currently valid for the solar industry.

### The results of the tests:

The values we had measured were not only confirmed but also exceeded!

SVGW  
Schweizerischer Verein des Gas- und Wasserfaches  
Grüßlistrasse 44  
CH- 8027 Zürich

**Zertifizierungsstelle Wasser**



**ZERTIFIKAT NR. 0408 - 4859**

Zertifizierungsantrag: Austria Email AG, Austriastrasse 6, A- 8720 Knittelfeld  
vom: 19.07.2004

Gestützt auf das Prüf- und Zertifizierungsreglement der Technischen Prüfstelle Wasser ( )  
zertifiziert der SVGW die folgenden Serienprodukte:

Rubrik: Werkprüfstände für Wärmeverlustmessungen  
Bezeichnung: Interne Beheizung  
Modelle / Typen: 30-2000 l Inhalt  
DN: - PN: - tmax. = - °C

Zertifizierungsgrundlage: SVGW W/TPW 115 (11/08), EnV  
Gültigkeit: 30.11.2014

Der Auftraggeber ist berechtigt, die oben erwähnten Produkte als SVGW zertifiziert anzubieten.  
SVGW-Konformitätszeichen zu verwenden (Publikation im Zertifizierungsverzeichnis Wasser).

Bemerkungen / Auflagen: Die Kalibrierung der Messinstrumente ist jährlich fortzuführen.

Schweizerischer Verein des Gas- und Wasserfaches

Zürich, 23. Januar 2012

*[Signature]* Geschäftsleitung *[Signature]* Zertifizierungsstelle

SVGW-xertificate

FORSCHUNGS- UND TESTZENTRUM FÜR SOLARANLAGEN  
*itw* Institut für Thermodynamik und Wärmetechnik  
Universität Stuttgart



**Prüfbericht  
Pufferspeicher  
Bestimmung des Bereitschafts-  
Wärmeaufwands nach EN 12897**

Prüfbericht-Nr.: 115TO198  
Stuttgart, den 29.03.2011

Auftraggeber: Austria Email AG  
Austriastrasse 6  
A-8720 Knittelfeld

Hersteller: Austria Email  
Speichertyp: PSM 1000  
Herstelljahr: 2011

Institut für Thermodynamik und Wärmetechnik (ITW) • Pfaffenwaldring 6 • 70550 Stuttgart  
Tel. 0049(0)711 895-43030 • Fax 0049(0)711 895-43033 • e-mail: tw@ibw.uni-stuttgart.de

ITW-test report

# ECO SKIN 2.0 - THE SECOND GENERATION



1



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3



4



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## Simple installation

### For all temperature conditions

With regard to assembly: Not all commonly used insulation materials are easy to fit. In particular, at low temperatures on the construction site many problems can occur.

With the new ECO SKIN 2.0 – Insulation, assembly and insulation are particularly simple, because:

- The material can be very easily pressed together, completely independent of the processing temperature. Even at minus temperatures assembly is still possible.
- The connection hook strip is unlikely to become damaged, even under tough handling – in contrast to the zip fastener type device, which is easily damaged or may even burst completely open. Due to the two-stage hook strip the tensioning can take place in a number of steps (mounting and then re-tensioning). Subsequent adjustment, if required, is therefore also no problem.
- Manufacturing tolerances are better adhered to due to the softer material and the fleece then itself surrounds the connections, if the perforations and connection are not exactly congruent.
- The ECO SKIN 2.0 – is supplied with packaging with carrying handles, which significantly eases handling.
- The rosettes can now also be mounted after the pipe connection, thanks to the new predetermined break point.

Head office and factory: Austria Email AG  
A-8720 Knittelfeld, Austriastrasse 6  
Phone (03512) 700-0, Fax (03512) 700-239  
Internet: [www.austria-email.at](http://www.austria-email.at)  
E-mail: [office@austria-email.at](mailto:office@austria-email.at)

Customer Service: Phone (03512) 700-297  
E-mail: [kundendienst@austria-email.at](mailto:kundendienst@austria-email.at)

#### Sales offices:

Vienna, Lower Austria, Burgenland  
A-1230 Wien, Zetschegasse 17  
Phone (01) 6150727, Fax (01) 6150727-260  
E-mail: [bhrastnik@austria-email.at](mailto:bhrastnik@austria-email.at)

Styria, Carinthia, East Tyrol  
A-8053 Graz, Am Wagrain 62  
Phone (0316) 271869, Fax (0316) 273126  
E-mail: [gbretterkleber@austria-email.at](mailto:gbretterkleber@austria-email.at)

Upper Austria, Salzburg  
A-4600 Wels, Gärtnerstrasse 17  
Phone (07242) 45071, Fax (07242) 43650  
E-mail: [akwetoni@austria-email.at](mailto:akwetoni@austria-email.at)

Tyrol, Vorarlberg  
A-6020 Innsbruck, Etrichgasse 24  
Phone (0512) 347951, Fax (0512) 393353  
E-mail: [hruapp@austria-email.at](mailto:hruapp@austria-email.at)

#### Sales offices Germany:

Germany North/East  
D-14770 Brandenburg, Beetzseeufer 3  
Phone 0049/(0)3381 / 766-0  
Fax 0049/(0)3381 / 766-244  
E-mail: [sgobi@austria-email.at](mailto:sgobi@austria-email.at)

Germany South  
D-92637 Weiden/Opf., Parksteiner Strasse 49  
Phone 0049/(0)961 / 63 490-0  
Fax 0049/(0)961 / 63 490-30  
E-mail: [ahirmer@austria-email.at](mailto:ahirmer@austria-email.at)

