

# ECO SKIN - INNOVATIVE INSULATION



REDUCE ENERGY  
LOSSES BY 21%



Austria Email



**ECO SKIN** - INNOVATIVE INSULATION





# INNOVATIVE INSULATION

All insulation is not created equal.

To minimise heat losses, high quality materials are required.

Austria Email's new ECO SKIN line is a new generation of high-efficiency thermal insulation.

## 6 ADVANTAGES

- 1 REDUCE ENERGY LOSSES BY 21%**  
THANKS TO STATE-OF-THE-ART TECHNOLOGY AND PERFECT FIT
- 2 INSULATED CONNECTIONS**  
WITH NEW COVER CAPS
- 3 SIMPLE INSTALLATION**  
WHATEVER THE TEMPERATURE CONDITIONS
- 4 ENVIRONMENTALLY-FRIENDLY**  
70% OF THE MATERIAL USED IS RECYCLED
- 5 ATTRACTIVE DESIGN**  
MODERN AND APPEALING
- 6 SOFT-TOUCH MATERIAL**  
ALLERGY-FRIENDLY



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## A STEP IN THE RIGHT DIRECTION

### Reduce energy consumption by 21%

The form-fitting design of the new ECO SKIN insulation and the new cover caps save you money and prevent unnecessary CO<sub>2</sub> emissions. The combination of both products reduces the thermal losses of a 1000-litre buffer cylinder by 21% (compared with the soft foam insulation previously available).

These improvements mean that Austria Email's products already fulfil requirements which the European Union will make in the years to come as part of the Eco Design Directive and to reduce CO<sub>2</sub> emissions.



## FITS LIKE A WARM WINTER JACKET

### **Fleece – a new high-quality insulating material**

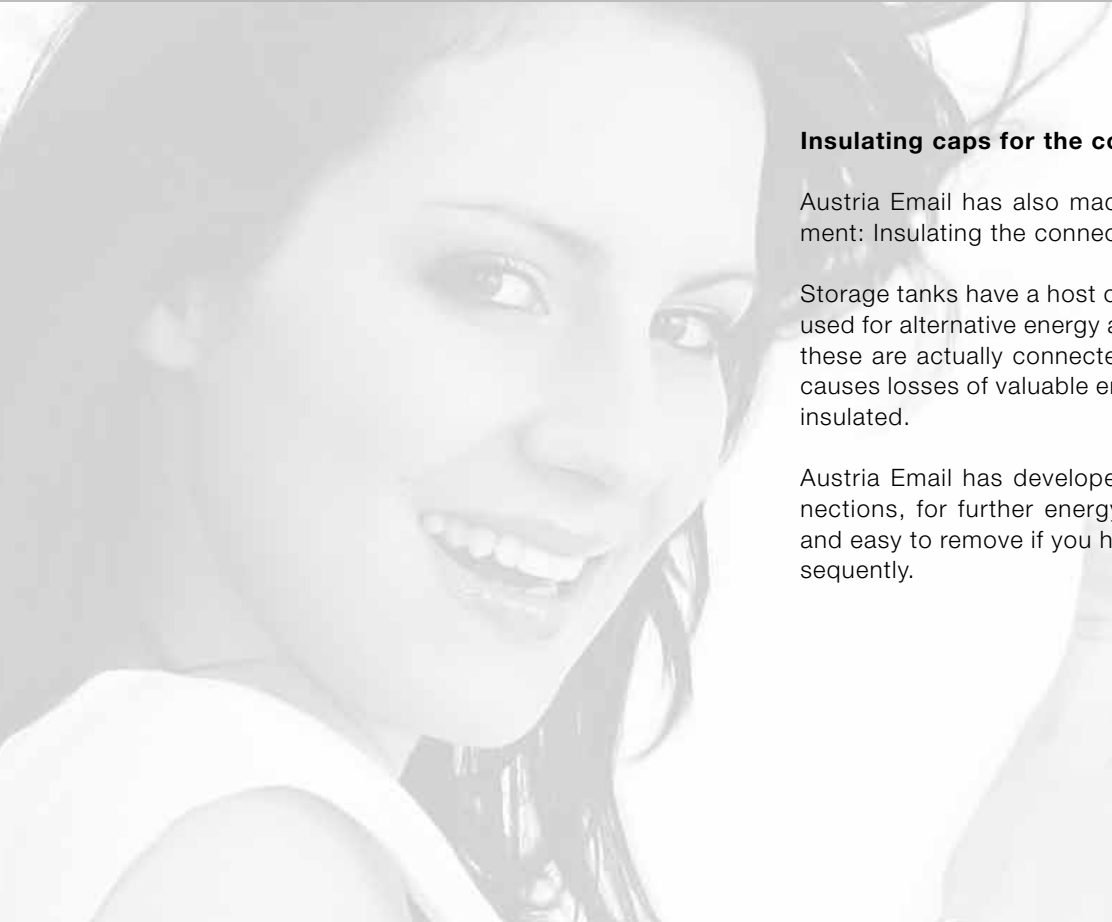
ECO SKIN uses polyester fleece, which has excellent properties and is used in the textile industry to produce cosy, soft-to-the-touch fleece jackets.

The design at the connections also has a significant influence on the insulation efficiency.

The Austria Email engineers chose this as a starting point and opted to use a material which fits the inner tank and connections perfectly, just like a warm jacket, for ECO SKIN. This avoids the stack losses common in other insulating material.



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## Insulating caps for the connections

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

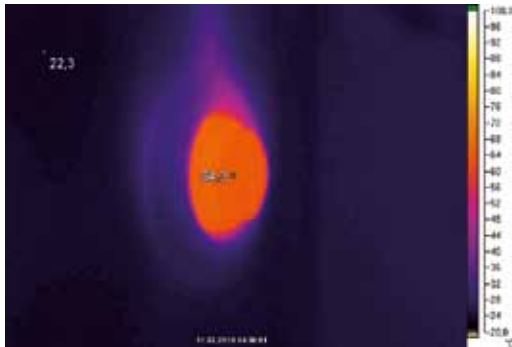
Storage tanks have a host of connections, especially those used for alternative energy applications. However, not all of these are actually connected to other components, which causes losses of valuable energy if the connections are not insulated.

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

The infrared images show the significant improvement of 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



## EXCELLENT TEST RESULTS

### Precise, proven specifications

Austria Email's laboratory is accredited in accordance with strict Swiss standards (ENV 730.01). All thermal specifications we provide for our products are based on measurements made in this laboratory.

SVGW  
Schweizerischer Verein des Gas- und Wasserfaches  
Grütlistrasse 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 (W/TPW 101) zertifiziert der SVGW die folgenden Serienprodukte:

Rubrik: Werkprüfstände für Wärmeverlustmessungen

Bezeichnung: Interne Beheizung

Modelle / Typen: 30-2000 I Inhalt

DN: - PN: - tmax: = - °C

Zertifizierungsgrundlage: SVGW W/TPW 115 (01/07), EnV


Gültigkeit: 30.11.2011


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

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

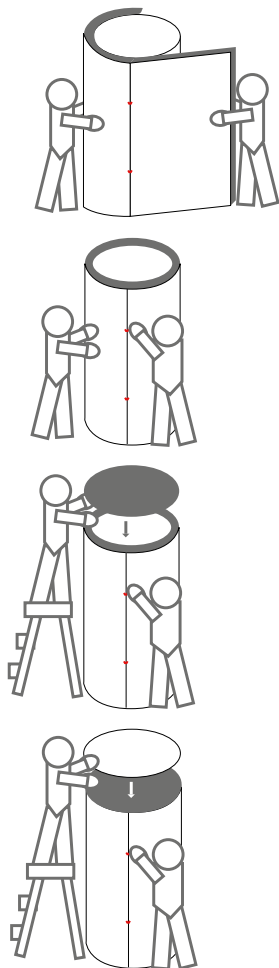
Schweizerischer Verein des Gas- und Wasserfaches

Zürich, 6. Oktober 2008

  
Geschäftsleitung

  
Zertifizierungsstelle Wasser

## SIMPLE INSTALLATION



### In any temperature conditions

And speaking of installation: Not all popular types of insulation are easy to install. In particular, low temperatures on the construction site can cause many problems.

The new ECO SKIN insulation makes installation and handling particularly easy because

- the material is easy to press together, regardless of the processing temperature. It can even be installed in sub-zero temperatures.
- the hook closure is robust by contrast to zips, which break easily or can even burst open. The usage of the two stage hook closure allows you to tighten the insulation in multiple steps (attach and tighten). This means that the insulation is easy to adjust later.
- the softer material allows manufacturing tolerances to be compensated better, and the fleece hugs the connections, even if the holes are not exactly in the right position for the connections.
- the ECO SKIN packaging has handles which make transport far easier.
- the rosettes can now also be installed downstream of the pipe connection thanks to the new breaking point.

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