

## Participation

Attendance fee: 420,00 € + VAT

(Incl. evening programme on June 28<sup>th</sup> and symposium package on June 28<sup>th</sup> & 29<sup>th</sup> June)

During the symposium and the evening event there will be a free bus transfer from the hotels in Schaffhausen to the venues and back.

## Accommodation

Hotel room allotments in several hotels are available by quoting the reference "eurammon":

Hotel & Restaurant Promenade: until 25<sup>th</sup> May, 2018  
arcona LIVING Schaffhausen: until 18<sup>th</sup> May, 2018

### Hotel & Restaurant Promenade

Fäsenstaubstrasse 43  
8200 Schaffhausen  
Phone: +41 (0)52 630 77 77  
Fax: +41 (0)52 630 77 78  
info@promenade-schaffhausen.ch  
www.promenade-schaffhausen.ch

### arcona LIVING Schaffhausen

Mühlentalstrasse 2  
8200 Schaffhausen  
Phone: +41 52 63100-00  
Fax: +49 381 45 85-108  
reservation@schaffhausen.arcona.ch  
www.schaffhausen.arcona.ch

Registration conditions: Please register by submitting the registration coupon. We will send you a confirmation of your registration. Registrations will be dealt within the received order. Cancellations have to be in written form. eurammon charges 50 % of the attendance fee for cancellations received after June 16<sup>th</sup>, 2018.

## Dear symposium participants,

The momentum in the refrigeration and air conditioning branch is continuing to grow. The transition towards using natural refrigerants is accelerating. On the one hand, this is due to the European F-Gases Regulation and the phase-down of climate-damaging chlorofluorocarbons stipulated therein, and on the other it is due to the minimum requirements regarding the energy efficiency of components for facilities specified in the Ecodesign Directive. In this respect, products using natural refrigerants also score highly for providing environmentally friendly, energy-efficient and future-proof solutions across all areas of application.

At our symposium, international experts will demonstrate the challenges and opportunities arising from the F-Gases Regulation and the Ecodesign Directive. They will provide an overview of the status quo of European legislation and standardisation, as well as present convincing real-world case studies.

Be part of it, join the discussions and talk to experts from around the world. We look forward to seeing you at our symposium!

## Best regards



Bernd Kaltenbrunner  
eurammon  
Chairman of the Board

KWN Engineering GmbH  
Managing Director



Mark Bulmer  
eurammon  
Member of the Board

Georg Fischer Piping Systems Ltd.  
Head of Global Market  
Development & Innovation

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### eurammon

Lyoner Straße 18  
D-60528 Frankfurt am Main  
www.eurammon.com

### Venue

28<sup>th</sup> & 29<sup>th</sup> June, 2018  
Klostergut Paradies  
Klostergutstraße 4  
CH-8252 Schlatt (near Zurich)  
Phone: +41 (0)52 631 27 27  
www.klostergutparadies.ch

### Contact

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## Thank you to ...



## Challenges of the F-Gas Regulation and Eco-Design Directive in 2018 and Compelling Solutions with Natural Refrigerants

### eurammon symposium



Thursday, June 28<sup>th</sup>, 2018  
13:00 – 17:30

Friday, June 29<sup>th</sup>, 2018  
09:00 – 15:45

Klostergut Paradies, Klostergutstraße 4  
CH-8252 Schlatt (near Zurich)

## Programme

Thursday, June 28<sup>th</sup>, 2018

### Lecture event

12:00 – 13:00 REGISTRATION / WELCOME COFFEE

15:15 – 16:00 COFFEE BREAK

### PART 1: REGULATIONS, STANDARDS AND TECHNOLOGIES

16:00 – 16:45 **Technologies needed to cope with HFC Phase Down and Climate Change**  
Michael Kauffeld,  
Hochschule Karlsruhe – Technik und Wirtschaft

16:45 – 17:30 **Round Table Discussion – Regulations, Refrigerants and Standards**  
Moderator: Michael Kauffeld,  
Hochschule Karlsruhe – Technik und Wirtschaft

17:30 – 19:00 **CHECK-IN AT HOTEL**

**EVENING PROGRAMME** – Boat tour on the Rhine River

13:00 – 13:10 **Greeting**  
Bernd Kaltenbrunner,  
Chairman of the Board  
Mark Bulmer,  
Georg Fischer Piping Systems Ltd.

13:10 – 13:50 **F-Gas Regulation: Status Quo 2018**  
Arno Kaschl,  
European Commission

13:50 – 14:30 **EU Standardization Request M/555 – Use of Flammable Refrigerants: Requirements given in Regulations and Standards**  
Carsten Hoch,  
TÜV SÜD

14:30 – 15:15 **Energy Efficiency – a Global Challenge**  
Hermann Renz,  
BITZER Kühlmaschinenbau GmbH

Friday, June 29<sup>th</sup>, 2018

08:00 – 09:00 REGISTRATION / WELCOME COFFEE

10:30 – 11:00 COFFEE BREAK

### PART 2: COMPELLING SOLUTIONS WITH NATURAL REFRIGERANTS

09:00 – 09:15 **Welcome Address**  
Mark Bulmer,  
Georg Fischer Piping Systems Ltd.

09:15 – 09:45 **CO<sub>2</sub> Units for Supermarket Applications**  
Frank Rinne,  
Emerson Climate Technologies GmbH

09:45 – 10:30 **Low Charge, Packaged Ammonia Chiller Solutions for Small Industrial Refrigeration Applications**  
Robert Lamb,  
Star Refrigeration Ltd

11:00 – 11:45 **Report on the IIR Working Group on Refrigeration Safety**  
Alexander Pachai,  
Johnson Controls

11:45 – 12:30 **Typical Cases with Plate Heat Exchangers / Plate Heat Exchangers in High Pressure Applications**  
Heikki Oksanen,  
Vahterus Oy  
Tommy Angback,  
Alfa Laval Lund AB

12:30 – 13:45 **LUNCH**

13:45 – 14:30 **Heat Transfer Fluids – an Overview**  
Roger Rosander,  
Temper Technology AB

14:30 – 15:15 **Energy Management of the Refrigeration Supply at Airport Zürich**  
Burkhard Bein,  
Flughafen Zürich AG

15:15 – 15:45 **Summary**

End of the event

