

It's now time for...



Ammonia Chiller
Capacity: 85-365 kW



**Transcritical
Booster System**
Capacity: 20-300 kW



EVENTS PLANNER

Monday 13 October | Tuesday 14 October | Wednesday 15 October

The following Events Planner highlights presentations and events taking place during Chillventa, which will focus on or include discussions about natural refrigerants CO₂, ammonia, hydrocarbons and water. With this calendar, participants are best able to plan their attendance and easily see "at a glance" where and when these presentations and events will take place.

Topics included in the below planner are: an overview of market and technology trends in the EU, North America, Japan and China, presented by Nina Masson of shecco; the state of natural refrigerants in various world regions, presented by various associations and academia; and the latest technology trends by leading manufacturers such as Bitzer, Carel, Danfoss, Emerson, Shrieve and more.

TIME*	MONDAY 13 OCTOBER CHILLVENTA CONGRESSING	TUESDAY 14 OCTOBER	WEDNESDAY 15 OCTOBER
09:30 — 09:40			Title: Introduction: Natural Refrigerants Throughout the World – Country Situation, Applications and Experiences Presenter: Monika Witt, Th. WITT Kälte-maschinenfabrik GmbH Location: Forum in Hall 1 Stand 1-536 Language: English
09:40 — 10:10			Title: Specific political guidelines, requirements, experiences and tendencies using natural refrigerants in Kazakhstan Presenter: Yuri Dubodelov, SAKADA Engineering Location: Forum in Hall 1 Stand 1-536 Language: English
10:00 — 10:20		Title: CO ₂ as a refrigerant – start right away! Presenter: Oliver Javerschek, BITZER Kälte-maschinenbau GmbH Location: Forum in Hall 4A Stand 4A-508 Language: English	Title: What drives Ammonia in the Middle East Presenter: Hans Raaymakers, ADEAREST LLC Location: Forum in Hall 1 Stand 1-536 Language: English
10:20 — 10:40	Title: Erfahrungen mit dem Kältemittel R-290 in Seriergeräten Presenter: Dipl.-Ing. Reinhold Resch, AHT Cooling Systems GmbH Location: Room Istanbul, NCC Ost Language: German	Title: Low Global Warming Potential (GWP) refrigerants and associated next generation lubrication technology Presenter: Dr. Christopher Seetun, Director of Global Application Technology of the Shrieve Speciality Products Division Location: Forum in Hall 1 Stand 1-536 Language: English Title: A low capacity centrifugal chiller using water as the refrigerant Presenter: Dr.-Ing. Jürgen Süß, Chief Technical Officer / Efficient Energy GmbH (Feldkirchen) Location: Forum in Hall 4A Stand 4A-508 Language: English	
10:40 — 11:00		Title: Die neuesten CO ₂ Trends für Kälteanlagen Presenter: Sirko Kirsten, Carel Deutschland GmbH Location: Forum in Hall 4A Stand 4A-508 Language: German Title: Optimizing heat recovery from industrial processes with heat pumps Presenter: Kenneth Hoffmann, Heating Application Manager, GEA Refrigeration Technologies GmbH Location: Forum in Hall 7 Stand 7-330 Language: English	Title: Ammonia and Natural Refrigerants in Turkey Presenter: Hüseyin M. Yücel, Air Conditioning & refrigeration Manufactures Association - ISKID Location: Forum in Hall 1 Stand 1-536 Language: English
10:40 — 12:00			Title: Compressor design between resilience, sustainability and cost effectiveness in CO ₂ Systems Presenter: Sylvain Lamy, Director Refrigeration & Industrial Marketing, Emerson Climate Technologies Location: Forum in Hall 4A Stand 4A-508 Language: English Title: The use of Ammonia and Natural Refrigerants in the USA Presenter: Dave Rule, International Institute of Ammonia Refrigeration (IAR) Location: Forum in Hall 1 Stand 1-536 Language: English

* Timing may slightly vary, please consult official technical programme on www.chillventa.de/en/kongress/

TIME*	MONDAY 13 OCTOBER CHILLVENTA CONGRESSING	TUESDAY 14 OCTOBER	WEDNESDAY 15 OCTOBER
11:35 — 12:00	Title: R744 als Gemischkomponente für Kältemittel mit niedrigem GWP Presenter: Tobias Göpfert, Technische Universität Dresden Location: Room Istanbul, NCC Ost Language: German		
12:00 — 16:00			Title: 5 th International GIZ Proklima Expert's Day: Green Cooling – Sustainable refrigeration and air-conditioning Presenter: GIZ Proklima, together with the German Federal Environment Agency (UBA), supported by the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) Location: ARVENA MESSE Hotel Language: English
13:40 — 14:00	Title: Gas Absorption Heat Pump, Ammonia-Water, Air-Source, Demonstration, Performance Prediction Speaker: Dr.-Ing. Constanze Bongs Location: Hall Shanghai, NCC Ost Language: English		Title: Natürliche Kältemittel, Blended Learning, E-Learning, Know-How-Transfer Presenters: Dipl.-Ing. Karsten Beermann Geschäftsführer / Direktor, IKKE and Marco Buoni, AREA and Refrigeration European Location: Forum in Hall 1 Stand 1-536 Language: German
14:20 — 14:40		Title: High-performance alkylbenzene lubricant technology: data report of long-term ammonia (R717) screw compressor trials Speaker: Manuel Munoz Alonso, Shrieve Products International Limited Location: Forum in Hall 4A Stand 4A-508 Language: English	Title: System Architectures and Compressor Solutions in Light of F-Gas Regulation Presenter: Venugopal Kandi, Product Manager Refrigeration Marketing, Emerson Climate Location: Forum in Hall 1 Stand 1-536 Language: English
14:40 — 15:00		Title: Natural refrigerants in food retail: An overview of market, technology and policy trends in EU, N. America, Japan, China Speaker: Nina Masson, Deputy Managing Director / Shecco srl Location: Forum in Hall 1 Stand 1-536 Language: English Title: Trends in safety and control systems for Industrial Refrigeration systems Speaker: Niels P. Vestergaard, Director of Market Support for Danfoss Industrial Refrigeration Location: Forum in Hall 4A Stand 4A-508 Language: English	Title: Semierschweißte Hochdruckapparate für CO ₂ und Ammoniak bis 64 barg Speaker: Ralf Süßmann, thermowave GmbH Location: Forum in Hall 4A Stand 4A-508 Language: German
15:20 — 15:40			Title: Lösungen für Supermarktanwendungen mit R744 oder Kohlenwasserstoffen Presenter: Stefan Wesch, Danfoss Location: Forum in Hall 1 Stand 1-536 Language: German

* Timing may slightly vary, please consult official technical programme on www.chillventa.de/en/kongress/



PREMIUM PRODUCT DIRECTORY

The following Premium Product Directory is a selection of the latest natural refrigerant-based technologies on display at Chillventa, offered by the industry supporters of this GUIDE. In this directory, participants will find, arranged by hall, both components and systems for household, commercial and industrial applications.

LEADING CO₂ TECHNOLOGY

FOR REFRIGERATION AND HEAT PUMPS

- ENERGY SAVING AND ENVIRONMENTALLY FRIENDLY

Advansor is an internationally leading manufacturer of sustainable refrigeration, for supermarkets, industrial refrigeration, power plants, food processing industry, chemical industry and air conditioning of office spaces, with CO₂ as the only refrigerant.

- 100% environmentally friendly
- Non-toxic, inflammable
- Single refrigerant applied
- No global warming impact
- No zone classification
- No ozone depletion
- Compact design
- Low noise
- Easy service
- Easy installation
- Low energy consumptions
- Low cost of installation
- Low cost of maintenance
- Future proof solution

Launching
new design!

The compSUPER
SIGMAS ValuePack

- All-in-one unit – integrated cooling, freezing, air conditioning and heating
- Compact, easy-to-install and service friendly design
- Energy efficient performance in hot climate
- Electrical savings: Southern Europe 6-7% (11% including heat recovery)
- Low investment cost

MT capacity: 25-55 kW

LT capacity: 3-12 kW

AC capacity: 10-20 kW



ADVANSORTM
by HILL PHOENIX

ADVANSOR A/S • Bautavej 1A • DK- 8210 Aarhus V
+45 7217 0174 • info@advansor.dk • www.advansor.dk

HALL 2



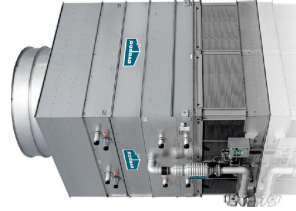
Galileo TP — www.galileotp.com

Kion C11 (World Premiere)

Galileo TP has been manufacturing a comprehensive line of hydrocarbon equipment since 1994, including HC charging systems, complete safety management systems, ex-proof ultrasonic welders, leak detection systems, evacuation systems and more. A global market leader in the vacuum, leak detection, and refrigerant-charging domains (covering all HC & CO₂ needs), Galileo TP's 20 years of experience with HC installations around the world (over 600) has earned the trust of manufacturers worldwide. Galileo TP's unique, proven systems, have been widely accepted by local AHJ (Authorities Having Jurisdiction) and insurance company safety compliance underwriters, for their high reliability and documented compatibility with local norms.

Hall 2 / 2-404 — talk to **Piero Poggiali**

HALL 4



Evapco Europe BVBA — www.evapco.eu

ATC-DC Wet/Dry Condenser

EVAPCO's new hybrid condenser, the ATC-DC, faces the challenge of significantly reducing water and energy consumption. By connecting two heat exchangers in series, this new condenser combines the advantages of an air cooled unit with an evaporative cooled unit. The hybrid condenser can operate in dry mode at lower ambient outlet temperatures and in evaporative mode during the warm season. The condensing of the hot gas begins in the ARID fin Pak™ heat exchanger of the dry cooler section and is then completed in the CROSSCOOL™ Ellipti-fin® heat exchanger of the standard condenser which provides a more efficient heat transfer by increasing the internal surface area of the coil tubes. The new ATC-DC condenser, your water and energy saver!

Hall 4 / 4-518 — talk to **Michael Rabenstein or Luk Van Driessche**



MAJA-Maschinenfabrik Hermann Schill GmbH & Co. KG
— www.maja.de

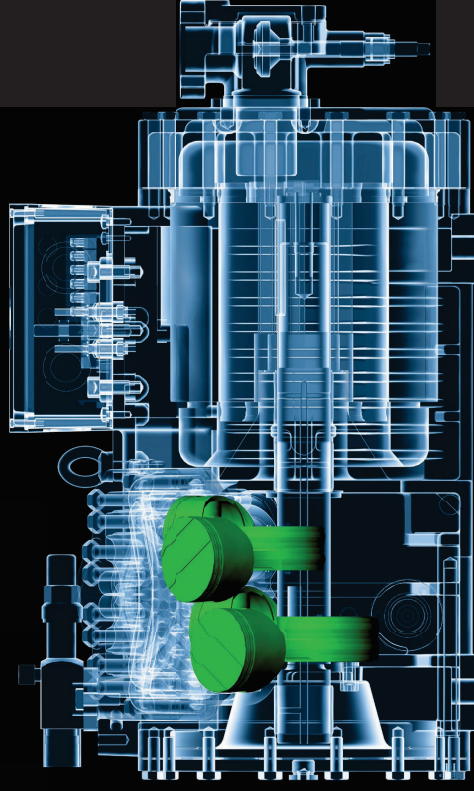
Flake Ice Machines RVH CO₂ for R744 operation

Ice output 500 – 3.800 kg / 24 h

For R744 operation with a multicompressor refrigeration unit or a separately installed condensing unit. The RVH CO₂ can be integrated into refrigeration projects targeting sustainability and environmental safety. Like all MAJA Flake Ice Machines, this type is labelled "HY-GEN protected", allowing for quick and easy cleaning, either by hand or automatically by the self-cleaning system MAJA-SCS (option). HY-GEN Flake Ice Machines are made for the production of flake ice under excellent sanitary conditions. The core piece of the HY-GEN sanitation principle is the evaporator tank in plastic material, which can easily be removed for cleaning.

Hall 4 / 4-402 — talk to **Andreas Walter**

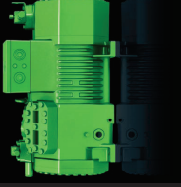
Chillventa 2014
Hall 4, Booth 310 & 408



OCTAGON CO₂

CO₂ AS A REFRIGERANT?
ABSOLUTELY!

The compressor is the heart of every refrigeration system. This heart now beats for the environment – with CO₂. At these high pressure levels you need a product you can rely on. As the market leader in CO₂ reciprocating compressors, BITZER offers quality and peace of mind – plus a broad product portfolio and services to match. When you turn to BITZER, a strong heart ensures a better life. Learn more about our products at www.bitzer.de



Bitzer

THE HEART OF FRESHNESS