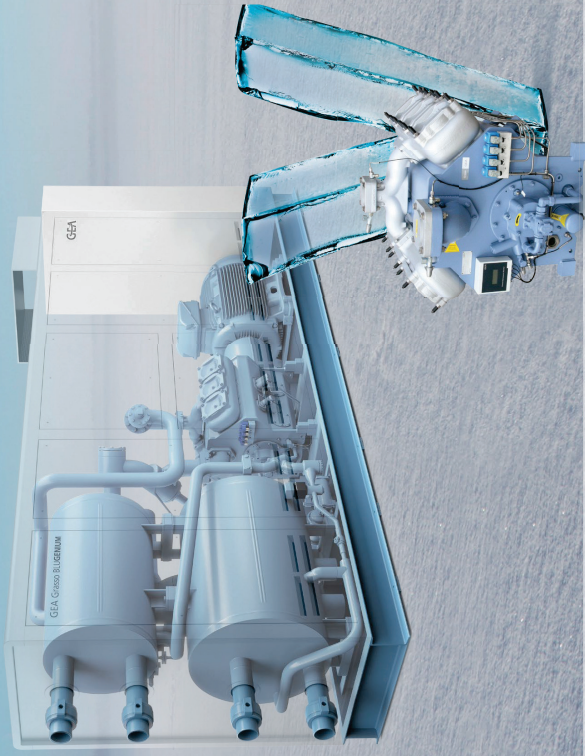


High efficiency in industrial refrigeration and air conditioning with
natural refrigerant chillers and compressors



CHILLVENTA 2014

October 14 – 16, 2014, Nuremberg
Visit us at stand 4-316 in hall 4

With its **GEA Grasso BluGenium series**, GEA Refrigeration Technologies introduces a new line of **water-cooled ammonia chillers** based on the proven piston compressors from the **GEA Grasso V series**. Designed for long service lives and low life-cycle costs these new chillers have an impressively high ESEER value of more than nine ensuring industry leading energy efficiencies in full and part load operation.

www.gea.com

engineering for a better world

GEA Refrigeration Technologies

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

Flake Ice Machines RVH NH₃ for direct R717 operation

Ice output 7.000 – 14.000 kg / 24 h

The direct operation with R717 guarantees the best efficiency, especially if big ice quantities are required. R717 is appreciated for its environmentally-friendly characteristics. Like all MAJA Flake Ice Machines, this type is labelled "HY-GEN protected", allowing quick and easy cleaning, either by hand or automatically by the self-cleaning system MAJA-SCS (operation). 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



Parker Hannifin — www.parker.com/race

Sporlan CO₂ flow control products

A broad range of new design transcritical CO₂ flow controls, including gas cooler and flash gas bypass stepper motor valves specifically engineered to supply booster, chiller, heat pump OEMs and end-users with outstanding energy saving capabilities and system life-long reliable components. The perfect complement to the Parker-Sporlan subcritical CO₂ product portfolio, reaffirming the brand's strong commitment to provide premium quality and overperforming technology, also when the focus is environmentally friendly solutions.

ENGINEERING YOUR SUCCESS.



Hall 4 / 4-114 — talk to Andrea Virzi or Gordon Coates



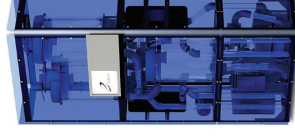
HALL 4A

Efficient Energy — www.efficient-energy.de

eChiller using water (R718) as the refrigerant (World Premiere)

The eChiller is the first industrial, mass-producible chiller worldwide that uses WATER (R718) as the refrigerant. Therefore, it is not in conflict with any upcoming HFC regulation. The eChiller is an environmentally benign long-term solution for any cooling application. Plus: the innovative eChiller will cut your power consumption by 50%. The thermodynamic process with water has been implemented extremely efficiently through patented innovations. The first introduced model has a refrigeration capacity of 45 kW; units with 20 kW and 90 kW will follow soon.

Hall 4A / 4A-109 — talk to any representative



Enex — www.enex.it

Ejector Refrigeration Booster (World Premiere)

A refrigeration unit for supermarkets and cold rooms with a plug & play design, simple and reliable. Ejector liquid overfeeding improves efficiency compared to state-of-the-art products. It uses CO₂ (R744), a "zero" environmental impact refrigerant. The unit can operate efficiently even with high outdoor air temperature. Available in Chilling (MT) and Booster (MT/LT) versions. Several options available, among which parallel compressor, ejector recovering expansion, heat recovery and AC water chiller.

Hall 4A / 4A-212 — talk to Irene Semenzato



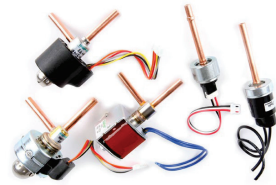
SAGINOMIYA — www.saginomiya-global.com

CO₂ line-up of automatic controls (European Premiere)

SAGINOMIYA is a leading manufacturer of automatic controls used in refrigeration and air-conditioning. The company has a wide line-up of components that use CO₂ refrigerant, a promising non-fluorinated alternative. The main CO₂ applications include water heaters (Eco-Cute), vending machines, showcases and refrigeration units. SAGINOMIYA's CO₂ line-up of automatic controls consists of:

- » CCB pressure switches, MWP = 150 bar
- » HSK pressure sensors, MWP = 150 bar
- » HPV solenoid valves, orifice 1.0 mm, 1.2 mm, 4.0 mm (new), 7.8 mm
- » UKV-J, JKV electronic expansion valves from 3 to 20 kW

Hall 4A / 4A-205 — talk to any representative



Secop — www.secop.com

DELTA and XV Compressors

Compressor Compactness

Whether you choose the cost efficient fix speed DELTA or the intelligent variable speed driven XV, you are guaranteed unmatched flexibility and efficiency. DELTA and XV compressors are also the ideal choice for energy-efficient wine coolers and minibars. The ultra-compact size of the DELTA compressor reduces shipping and storage costs. Furthermore, the DELTA compressor's all in one concept comes with accessories already preassembled, leading to significant improvement in reliability and noticeable reduction in complexity. Intelligently combining an extremely small size with extremely high performance, the Secop XV compressor is a pioneering technology designed to meet the global demand for innovation, efficiency and sustainability.

Hall 4A / 4A- 411 — talk to any representative



Secop — www.secop.com

DLE-CN and NLE-CN Compressors

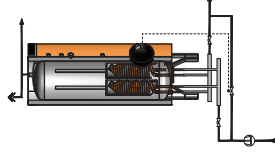
New Energy-Optimised Propane Compressors

The new DLE and NLE compressors are tailored for commercial use and are capable of substituting products made for high GWP (Global Warming Potential) refrigerants like R404A and R134a. With optional run capacitors, the efficiency can be further increased if needed. With these compressors, designed for LBP/MBP applications like bottle coolers, commercial freezers, food retail and ice-cream cabinets, etc. Secop is able to meet the increasing market demand for high efficiency and natural refrigerant products, with a very low GWP (3.3 GWP). These compressors mark an energy-efficiency leap for Secop's propane compressors - but there is more to come ...

Hall 4A / 4A-411 — talk to any representative



HALL 5



DK-Kälteanlagen GmbH — www.dk-kaelteanlagen.de

DK- HEAT RECOVERY FOR CO₂ REFRIGERATING PLANTS

As a company eager to innovate, DK already presented at Chillventa 2008 a Heat Recovery solution for CO₂ refrigeration plants in the transcritical range. The heat exchangers were strengthened in that they were approved for pressures of up to 130 bar at +150°C. Since 2008, DK delivered 200 Heat Recovery Systems for transcritical cooling systems which are running successfully. Over the last months, more and more DK products were prepared for high pressure, which will be shown at Chillventa.

Hall 5 / 5-115 — talk to Michael Kappenberg



DSI — www.dsi-as.com

DSI Plate Freezers using Natural Refrigerants

Fast freezing maintains the freshness and the natural product quality. DSI Plate Freezers that use CO₂ provide a high freezing rate and experience shows that CO₂ freezers reduce the freezing times with 25–40%. DSI CO₂ freezers have obvious environmental advantages. Compared to traditional refrigerants, CO₂ in a closed system does not represent a burden on the environment. DSI have more than 500 CO₂ freezers in operation. All DSI Freezers can of course also operate on ammonia. The quality of the complete range of DSI vertical and horizontal plate freezers is incontestable.

Hall 5 / 5-104 — talk to Mads Sigsgaard



PLATE FREEZING
... world-wide!