

COMPANY DIRECTORY*

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- » Hall 1 / 1-216 Frigoteam
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- » Hall 1 / 1-224 Ziegler
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- » Hall 2 / 2-109 Karver
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Hall 4

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Hall 5

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Hall 6

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*This information was compiled using the Chillventa website, but we do not warrant that this list is complete

FIND YOUR WAY AROUND CHILLVENTA

Out of the 1000 Chillventa 2014 exhibitors, over 120 companies provide products and services related to natural refrigerants, highlighted in the floor plans that follow. Designed as a tool to best-prepare for the show, these maps provide a unique reference of climate friendly solutions in HVAC&R at the event.

Whether they work with CO₂, ammonia, hydrocarbons, water or air, the companies listed offer a range of solutions including: systems, components, refrigerants, engineering services, and training.

King of Cold



Refrigeration Excellence since 1962



ZANOTTI *is working for our future*

NATURAL REFRIGERANTS
FOR NATURAL SOLUTIONS

R290

R744

ZANOTTI *is working for our future*

R1270



NATURAL REFRIGERANTS FOR NATURAL SOLUTIONS

Zanotti Spa since 1962 designs and produces refrigerating units to cool, preserve and transport food stuff. Zanotti is a world leader and the company's success is based on the constant research conducted to technologically improve energy saving efficiency and to find customized solutions aimed at meeting customer demands.

Under the name of King of Cold, Zanotti offers products developed to cover the whole cold chain for food industry, with customisable solutions and latest technologies for "Green solutions". The diesel unit completes the cooling series with its split battery system or others, which were specifically designed for the short, medium and long distance food transportation.

Zanotti will be exhibiting new products at Chilventa using technologies that meet all of the new expectations of the market, that it to say, increased efficiency, new natural gases and Ecodesign features. Energy efficiency is the key equipment feature that all markets are looking for. As far as fluorinated gases are concerned, Zanotti has, as a matter of fact, been producing products, which use all natural gases. Zanotti has been manufacturing products for the last 4-5 years in accordance with Ecodesign protocols, which provide for the total recyclability of machines at the end of their lives and production protocols.

Zanotti is offering a range of monoblocks for wall or ceiling applications with refrigerants having very low environmental impacts (GWP = 3), such as Propane R290 or Propylene R1270 for the use with medium volume cells for fresh or frozen product preservation. The company has already been producing these blocks for some years. These monoblocks use hermetic compressors (only with R290) or semi-hermetic compressors (both R1270 as well as R290), air or water condensation, ATEX components, and remote type control/ command panel. The duties of the current range from 1000 to 4000 watts.

For the first time in the food refrigeration market, Zanotti is proposing the monobloc running with CO₂ (R744) for medium and large volume cells. This

gas has a GWP1 value so it is totally "green", with ODP= 0, thus solving the various problems caused by the polluting gases used in industrial refrigeration. It is a compact-type group and has all the features and advantages of the "plug and play" monobloc, i.e. quick installation and ready to use.

In the specific case, the plant system has been manufactured for use on low temperature cells, in the interior, the use of a semi-hermetic, dual-stage compressor with an intercooler, in a transcritical cycle is foreseen. The duty supplied by the group is 8500 Watts, provided to a -20 °C cell and +30 °C external environment.

When refrigeration units are needed to preserve foodstuffs where the traditional power grid is not present, one possible solution is to produce the needed electricity through solar energy.

For applications of this type, Zanotti offers a ready-to-use, monoblock refrigeration unit to preserve fresh products that runs on direct current and can be mounted on a small cell (7-8 m³). The unit is totally autonomous and controlled electronically.

This monoblock unit is capable of operating even in traditional electric mode (possibly powered by generator) as well as connected to photovoltaic panels and storage batteries.

The cooling capacity for a 0°C cell with a +30°C external environment is 1300 Watts.

It is a brand new product that is the result of totally environmentally sustainable research and technical innovation.

Zanotti also manufactures a multicompressor rack CO₂ (R744) refrigeration system equipped with 3 independent double-intake compressors and common exhaust. With semi-hermetic compressors for operating in a transcritical cycle for medium temperature applications for fresh product preservation, mounted on an open frame for machine rooms, completed with oil separator, liquid receiver, heat exchanger for flash gas, liquid sub-cooling and safety system to increase plant efficiency.

The main limit to use CO₂ is that it has a low critical temperature that limits its use to either cooler climates or requires the need for complex cascade circuits.

The transcritical cycle solves this problem, because it's a type of technology that permits the use of CO₂ in any area of the world, in both hot or cold climates.

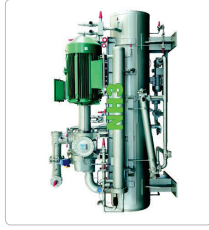
ZANOTTI Spa has always been responsive to environmental impact and energy consumption of its products and industrial plants. The new generation of ZANOTTI "Green Industrial Plants" provides high performance utilizing screw compressors with speed control and variable internal volume ratio for high efficiency.

The ZANOTTI "BESTCOOP" control system ensures the maximum efficiency of the compressors during the running period in all seasons. As a result the ZANOTTI "Green Industrial Plants" have always the maximum COP and an excellent ESSEER values.

The respect for the environment is evidenced by the new refrigeration units running with Ammonia and CO₂. This solution is, at the moment, the only one that satisfy the international rules regarding new refrigerants.

Ammonia (NH₃) was historically one of the first refrigerant used in the construction of refrigeration plants and equipment. It has a very high latent heat of evaporation, it is a natural compound and it is widely known and used because of its high characteristics thermodynamic, the excellent ability to thermal transport heat, which allows to obtain the highest coefficients of performance (COP) and the low purchasing cost (also for the necessary type of oil)

ZANOTTI "Green solutions" is the answer to obtain optimal cooling solutions for all requirements with maximum sustainability, efficiency, energy costs and reliability. ■



HALL 1

