

AiCARR Journal

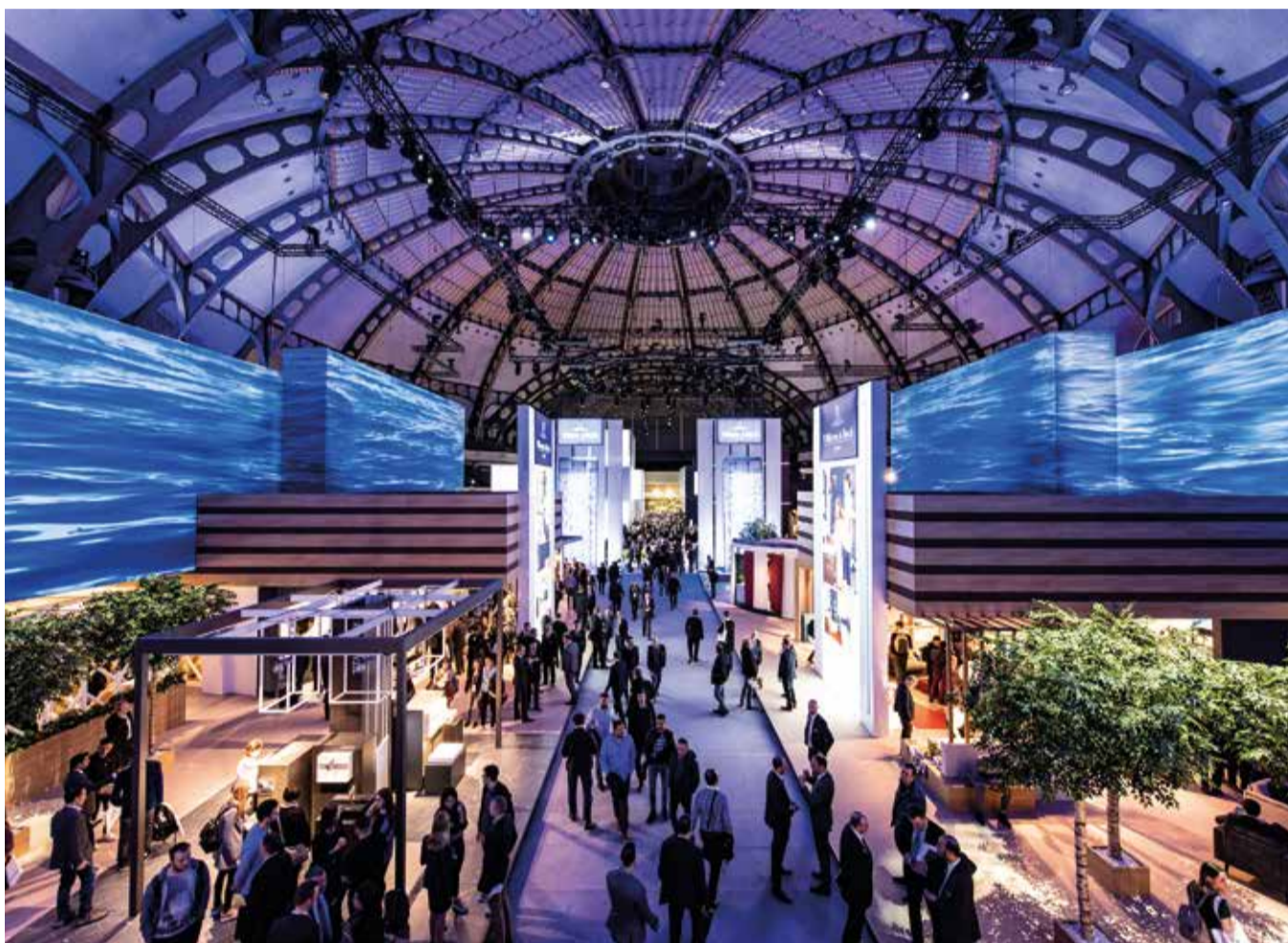
LA RIVISTA PER I PROFESSIONISTI DEGLI IMPIANTI HVAC&R

CASA&LIMA

BLU &
ROSSO

Il Giornale dell'
Ingegnere

Installatore
PROFESSIONALE



INTERVIEW
WITH STEFAN SEITZ

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CIRCULAR ECONOMY A SYSTEM CAPABLE OF REVERSING THE COURSE

by Antonio Galloro and Daniela Suriano



Our planet is not in possession of anything that is “unlimited”, and this also goes for its ability to pro-

duce new resources. Examples of circular economy in the energy sector.

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SCENARIOS HEAT PUMPS AND REDUCTION OF DEPENDENCE ON NATURAL GAS

by Michele De Carli, Marco Marigo, Laura Carnieletto and Filippo Busato



The results of a study show that heat pumps in a residential environment could be crucial in a decarbonisa-

tion perspective. To get them off the ground, a long-term strategic plan would be needed.

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HEATING AND COOLING WITH HYBRID SYSTEM

AquaPump Hybrid by Apen Group is a monoblock unit for outdoor use, designed for the production of hot and cold water through the use of renewable energy. It is an intelligent system that integrates the high efficiency of the electric heat pump and the versatility of the gas condensing boiler, working in perfect combination thanks to the control with remote control touch screen Smart Easy/Smart Web that allows you to use the heat pump independently



Hall 8 | F85

or with the boiler when the outside temperature changes.

The use of renewable energy for energy efficiency makes it possible to pursue environmental sustainability objectives and a reduction in carbon dioxide emissions. Heating and air conditioning with the hybrid system is ideal for commercial environments of all kinds, offices and gyms.

www.apengroup.com

ZONE VALVES FOR THE OEM SECTOR

The **BS5** series was born from Barberi's experience in the design of zone valves for the OEM sector, characterized over time by their reliability, rotation speed, ease of installation and high flow rate. With BS5, the bar is further raised in terms of technology, performance and energy efficiency of a product that is used in heating, air conditioning, central heating systems, boilers and heat pumps. What makes BS5 so innovative is the synergy between two important technologies:

- the valve body features our Soft-Torque technology, characterized by a patented design and very low friction materials, which allow quick and soft switching, in just



Hall 9.1 | C53

8 seconds, and lead the product to be highly energy saving;

- the ARP version is equipped with an automatic return in position function by means of an electric supercapacitor which ensures a more advantageous use of the valve if compared to traditional spring return actuators; the installation is even simpler and energy savings can reach 90%, with the lowest consumption in its category.

Furthermore, the "Made in Barberi" design of BS5 optimizes both the shape and function, defining a refined and compact style, which allows greater application opportunities.

www.barberi.it

MAGNETIC FILTER WITH EXTRA POWER

The Caleffi XF magnetic filter with extra power allows unparalleled heat pump system cleaning. The semi-automatic self-cleaning function ensures the generator and other devices in the hydraulic heating and domestic water system are continuously protected from impurities, thanks to its special features:

- built-in device: filter+dirt separator+magnetic effect;
- extra Filtering: dual filtration system;
- semi-automatic cleaning: internal brush mechanism;
- consistent performance over time: large filtering surface;
- versatile: installation on both horizontal and vertical pipes.



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Caleffi XF is a built-in device made using composite material selected especially for heating and cooling system applications. Designed for practical and versatile assembly, maintenance and use as required for circuit flushing, it can be installed on horizontal or vertical pipes, without its functional and fluid dynamic specifications being altered. The range is complete, and can satisfy all installation requirements for the most diverse central heating systems. The larger sizes (DN 40 and DN 50) have a by-pass which makes it possible to restrict the flow rate passing through the device by up to 50 %, thereby reducing the energy used by the circulator.

www.caleffi.com

ENDLESS ELEGANCE

Fractal, design Soo K. Chan, is the new series offered in numerous finishes, equipped with the technological and functional pluses that are typical of Cristina Rubinetterie products. The name refers to the geometric figure of the prism. The body of the mixer is in fact characterised by several flat strips that create the faces, limited by parallel lines that create the edges. The series is valuable and sought-after both for its mechanical work-



Hall 4.1 | F07

manship - the greatest difficulty lies in keeping the radiuses of the surface always equally sized and strictly geometrical - both for the considerable craftsmanship required in the smoothing, polishing and brushing phases. The Fractal series won the Archiproducts Design Awards 2022 and the German Design Award 2023, two prestigious recognitions of design and functionality.

www.cristinarubinetterie.com