



ACCELERATE

ADVANCING HVAC&R NATURALLY AMERICA

PRESS RELEASE # 1

ALASKA SEALIFE CENTER EXPLAINS HOW SEAWATER HEAT AND CO₂ HEAT PUMPS REPLACED CONVENTIONAL HEATING SYSTEMS IN MAY ISSUE OF ACCELERATE AMERICA

Monthly magazine from shecco looks at how leading organizations use carbon dioxide, hydrocarbons, ammonia and other climate-friendly natural refrigerants to improve and future-proof refrigeration, air conditioning, and heating systems

New York, N.Y. – (May 18, 2016) –

The Alaska SeaLife Center tells the story of its seven-year journey to shift 98% of its heating needs from fossil fuel to ocean water as a heat source, and use heat pumps – including CO₂ units – in place of oil-burning and electric boilers in the May issue of *Accelerate America*, published online this week.

Produced by shecco, the worldwide expert in natural refrigerant news, *Accelerate America* is the first monthly news magazine written for and about the most progressive business leaders working with climate-friendly natural refrigerants in the United States, Canada and Mexico.

Accelerate America is viewable online at no charge at <http://www.acceleratena.com>. In addition, print copies are distributed at major North American trade shows serving the HVAC (heating, ventilation, air-conditioning) and refrigeration industries, and mailed to key end users in the food retail, foodservice, cold storage and food processing sectors.

The May issue (volume 2, No. 15) describes how the fierce determination of a small group of individuals in a rural Alaska town – led by engineer Andy Baker and Alaska Sealife Center special projects director Darryl Schaefermeyer – overcame significant financial and technical obstacles to create a sustainable heating solution

for an important public institution. The Sealife Center's project represents the first installation of CO₂ refrigerant heat pumps to replace oil or electrical boilers in a conventional heating system in the United States. It shows how CO₂ heat pumps, linked to an innovative water-piping design, can be a viable heating and cooling source for a large, multi-faceted facility, especially when heat from natural resources like seawater can be leveraged.

The May issue reflects the diversity of applications to which CO₂ transcritical refrigeration systems can be applied. For example, it covers how the municipality of Anchorage, Alaska, is converting its four public ice rinks from a refrigeration system using R22 – an ozone-depleting gas with a high global warming potential – to an energy-saving CO₂ transcritical system. Other articles describe Australian supermarket giant Coles' test of its first CO₂ transcritical system; Carnot Refrigeration's installation of its Aquilon CO₂ transcritical system for data centers in four telecommunication facilities; and Carrier Transicold's tests of CO₂ transcritical systems for shipping containers and truck trailers.

In addition, the May issue has articles on: The California Air Resource Board's Proposed Strategy to crack down on emissions of HFCs

and other short-lived climate pollutants; an update by DeCicco & Sons, a small N.Y. grocer, on its CO₂ transcritical installation at a gathering of contractors and retailers; the opening of Emerson's Helix HVAC&R innovation center; coverage of natural refrigerant develops in Europe and China; Azane's low-charge ammonia systems for light industrial and commercial applications; the introduction of CO₂ heat pumps in the North American residential market; the development of caloric cooling at Iowa State University; and more.

The mission of the *Accelerate America* is to advance adoption of natural refrigerants – such as carbon dioxide, ammonia, propane, isobutane, water and air – by informing readers about how they are being used in HVAC and refrigeration applications across industries in North America.

"Natural refrigerant-based technologies are disrupting the HVAC&R industry in North America," said Marc Chasserot, publisher of *Accelerate America* and managing director, shecco. "Behind this wave of innovation are people with brilliant and creative ideas who are designing and using functioning technologies in brand new ways to meet exciting new business opportunities. These are the people, ideas and technologies we want to cover in *Accelerate America*."

About shecco

For the last 16 years market accelerator shecco has been active in helping bring climate friendly technologies faster to market. shecco supports over 100 partners worldwide in the HVAC&R sector, where the focus is on sustainable refrigeration, heating & cooling technologies using natural refrigerants. shecco offers a variety of services in three areas: 1) media, including online industry platforms, magazines and a catalog of dedicated research reports; 2) market development, including market research, consultancy and public affairs services, as well as special international projects; and 3) events, including international conferences and national workshops.

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