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Japan

Eco cute heat pumps on track for double-digit growth:

According to the recent statistics released by JRAIA, the demand for eco cute heat pumps in Japan in 2021 is expected to record a double-digit increase, and the domestic market has grown for six consecutive years. The main reason for the increase is stay-at-home demand. People working from home for long periods have generated an increase in the demand for hot water, and the electricity bills have also risen. eco cute continues to be an energy-saving hot water system that is gaining popularity in the market. Many people can channel money that would otherwise have been spent on leisure activities into investments in home equipment. Both new demand and replacement demand are relatively strong.

Anuga FoodTec 2022

Køln 26-29 April

Increased energy efficiency demanded: Efficient solutions for the food industry at Anuga FoodTec 2022

Faster, more flexible, more sustainable - the food industry is faced with numerous challenges and is setting about shaping its production in a more resource-saving manner. Renewable energy and its decentralised generation is providing additional momentum. Modern photovoltaic systems and cogeneration units for the combined production of electricity, heat and cooling are helping save the companies operating costs and CO₂ emissions. However, the energy turnaround is presenting great challenges for the industry. Whilst the climate policy goals are becoming increasingly demanding, the efficiency regulation at EU level is also continually developing. Food producers, who are striving to guarantee their security of supply under compliance of the legal provisions, will find innovations at Anuga FoodTec from 26 to 29 April 2022, which will help them realign their energy efficiency. The following applies here: Already in the design phase of machines and systems, energy considerations are being taken more and more into account - and all of the innovations are also always combined with the digitalisation aspects.

USA

Unitary and heat pump continue double-digit growth

According to the latest statistics from AHRI, the shipments of central air conditioners and air-source heat pumps totaled 666,067 units in November 2021, up 12.1% from 593,998 units shipped in November 2020. The shipments of air conditioners increased 11.0% to 383,954 units, up from 346,023 units shipped November in November 2020. The shipments of air-source heat pumps increased 13.8% to 282,113 units, up from 247,975 units shipped in November 2020. The good news is that the world's largest air conditioner market continues to maintain its growth momentum, while the heat pump is gaining more and more market awareness.

Chillventa

From 11 to 13 October 2022, Chillventa in Nuremberg will once again become the international meeting place for refrigeration, AC, ventilation and heat pump experts. Exhibitors and visitors from all around the world will gather at the venue for three days of discussion about the latest trends and solutions. Chillventa is the No. 1 platform for the international community: With its unique range of products, expert forums, Chillventa CONGRESS and extensive supporting programme, Chillventa covers the entire spectrum of each segment. There's no better place to forge important business contacts, tap into new areas of application and enhance your professional expertise. If you want to keep pace with the latest developments, Chillventa 2022 is a must-do event.

Global trend:

Large-capacity scroll demand increases rapidly

A rapid increase in demand for 5G base station construction, low-temperature heat pumps, and cold storage for food and medical use has brought excellent opportunities for large-capacity scroll compressors. Large-capacity scroll chillers with cost advantages are replacing modular scroll chillers with smaller capacities in the chiller segment. This trend is also pushing up the demand for large-capacity scroll compressors.

Emerson's ZFI series 40 hp low-temperature large scroll compressor is now officially under mass production in Emerson's factory in Suzhou, China. Danfoss also released models with increased large capacity. Panasonic (Dalian) has made a similar move. SCI (Mitsubishi Electric) continues to accelerate production expansion. Bitzer won the ACREX Award of Excellence in the Sustainable Design category for its Orbit scroll compressors.

Introducing the guide to predictive maintenance

Energy optimisation, CO₂ emission, electricity price, COP26, predictive maintenance, IoT, industry 4.0, climate change, and much more have made the last couple of months a mental roller coaster for anyone that works with sustainability. 2022 will not be different, the focus on sustainability will increase! ClimaCheck have helped many organisations at the forefront of sustainability to save millions of kWh which drastically reduce their CO₂ emission. Reducing energy consumption will be crucial to meet tougher climate goals.

Guide To help and inspire organisations to accelerate their sustainability work, we have made a guide. Which aims to help equipment owners introduce predictive maintenance and energy optimisation on HVACR-system to reach new levels of savings. It is also intended to help contractors and consultants that want to take the lead in supporting the transition.



China

Prices of air conditioners and compressors to increase:

Local manufacturers tell that the prices of air conditioners and compressors might increase immediately after the Spring Festival. The soaring price of silicon steel sheets is a headache for compressor manufacturers. However, to make matters worse, the cost of magnets has also increased since the fourth quarter of last year. For the Chinese market, where the proportion of inverter air conditioners has exceeded 70 %, the increase in the price of magnets will increase the cost of air conditioners. Major manufacturers will likely increase their sales prices in the first quarter. In 2021, due to factors such as raw material prices, the price of air conditioners in China's domestic market increased twice in the first half of the year.

AHR Exop 2022 USA:

Manufacturer of oil-free centrifugal compressor is increasing

AHR Expo 2022 in Las Vegas is just some days away, and many readers may not be able to wait. It is worth noting that the number of manufacturers of oil-free centrifugal compressors is increasing. In the Cooling category, Danfoss Turbocor VTCA400 compressor is the winner of the Innovation Awards at this AHR exhibition for its technical superiority. Finalists in this category include Copeland's oil-free centrifugal compressor from Emerson and Teqtoniq TRC150 oil-free centrifugal compressor from Teqtoniq. Copeland's oil-free centrifugal compressor brought by the global compressor giant Emerson is attracting attention. Stimulated by the government's emissions reduction and green building policies, magnetic bearing centrifugal chiller manufacturers are welcoming the peak in development on a global scale.

World Air Conditioner Market in 2021

Overview

JARN estimates that the global room air conditioner (RAC) market in 2021 increased by 3.0% compared with 2020, reaching 126.10 million units. On the other hand, the global PAC market has increased by 3.1% year on year, but it has not yet returned to the level of 2019.

United States

The U.S. market continues to maintain rapid growth. Total demand in 2021 has reached 24.33 million units, a year-on-year increase of 6.9%. Both ducted and ductless air conditioning systems continue to expand. According to statistics issued by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI), in November 2021, the unitary market has grown by 9.2% year on year. JARN estimates that single-split type and window-type RACs in the United States increased by 14.1% and 2.3% in 2021, respectively.

China

The Chinese RAC market increased to 2.6% year on year to 50,26 million units in 2021. The market has not yet reached the expected level, due to heavy rain and low temperatures in summer, and product price increases. Data

from China Customs showed that the exports of RACs including window, portable, and single-split types increased by 15.5% year on year to 44.19 million units during the period spanning January to September 2021. In terms of destinations, North America and Europe grew significantly.

Southeast Asia

JARN predicts that in 2021, the RAC market in the seven major Southeast Asian countries has increased by only 1.4% year on year to 5.98 million units. The most promising markets in Thailand and Vietnam have been hit hard, and the Malaysian market is showing no signs of recovery. The pandemic has also hit the supply chain of air conditioning production, and the supply of semiconductors and parts has become tight.

Europe

JARN estimates RAC demand in 2021 increased by 4.9% compared with 2020, reaching 7.45 million units. The renewal demand for PACs in stores was delayed. The lockdown was lifted in March 2021, so the projects postponed in 2019 resumed.

About JARN magazine

First published in February 1969, JARN, Japan Air Conditioning, Heating & Refrigeration News Ltd. is the only English-language magazine published in Japan that covers news from around the world on the HVAC&R industry, markets, products, new technology, major trade shows, and various promotional activities by global industry leaders. With its continuously expanding worldwide circulation and long-standing information network, JARN has proven to be an invaluable source of information for decision-makers from all branches of the air conditioning, heating, and refrigeration industry. In addition to coverage of the aforementioned areas, since its start JARN has published annual special editions focusing on particular product groups to satisfy readers' interest and requests for specialized information. These special editions also cover trends in world markets and technologies.



15th IIR-Gustav Lorentzen Conference on Natural Refrigerants Trondheim, Norway | June 13-15, 2022



Call for abstracts now open for IIR Congress 2023

To be organised under the theme "Towards efficient, controlled and smart refrigeration", the call for abstracts for the 26th IIR International Congress of Refrigeration has been launched.