Daikin exhibits at the COP28 Japan Pavilion

**Brussels, September 18, 2023 – Daikin will exhibit at the COP28 Japan Pavilion its high-efficiency inverter air conditioner which contributes to 50% energy savings. The 28th Conference on Climate Change in Dubai (United Arab Emirates) from November 30 to December 12, 2023, will mark Daikin’s first exhibit at a COP event.**

**First Daikin exhibit at COP event**

For the first time, Daikin Industries Ltd., mother company of Daikin Europe N.V., will exhibit at the Conference of the Parties to the United Nations Framework Convention on Climate Change. COP is an international conference that brings together leaders from international organizations, national and local governments, NGOs, and leading companies to discuss international trends and the necessary rules for mitigating global warming. The conference has been held since 1995, and this year marks its 28th meeting.

"We are committed to realising carbon neutrality worldwide by creating highly energy-efficient air-conditioning innovations. At COP28 we look forward to connecting with government officials and other stakeholders from around the world and present our inverter technology, which holds a variety of environmental benefits," said Masatsugu Minaka, Senior Executive Officer of Daikin Industries and Chairman of Daikin Europe.

**Business rooted in the Middle East region**

Japan’s environment ministry hosts the Japan pavilion at COP28 and uses the exhibition and side events to globally showcase excellent products, services, and initiatives from Japan for combating climate change.

"Daikin Middle East and Africa FZE and its mother company Daikin Europe, have been working to advance inverter-equipped, energy-efficient air conditioning systems. As a company with business rooted in the region, we are pleased and honoured to participate in COP28 in Dubai," said Hasan Önder, President of Daikin Middle East and Africa.

**High-efficiency inverter air conditioners use 50% less energy**

With a high-efficiency inverter, also known as variable speed technology, the air conditioner precisely controls the rotation speed of the air conditioner compressor in line with ambient conditions to reduce electric power consumption by more than 50% [1] compared to non-inverter air conditioners. Today, air conditioners account for about 10% [2] of the world’s total electricity demand, while recent developments in emerging countries have led to an increasing energy demand for air conditioners by an average of 4% per year. [3]

The G7 Summit in May 2023 and G20 Energy Transitions Ministers’ Meeting in July 2023, highlighted the importance of enhanced energy efficiency and savings as the ‘first fuel’ to achieve net-zero emissions by 2050 at the latest, as well as energy transitions. Energy efficiency is also becoming a more pressing topic internationally, with the International Energy Agency (IEA) indicating the need to double energy efficiency.

While the ratio of air conditioners equipped with energy-saving inverter technology has reached nearly 100% of the market in both Japan and Europe, it is still low around the world including in the U.S., Middle East and Africa, as well as Asia. To increase its use even further, it is necessary to raise awareness in each country that high-efficiency inverter air conditioners can be introduced immediately, and an important benefit is that the technology has immediate effects.

Daikin will use the opportunity to appeal to COP participants such as governments, world leaders and observers about the many advantages of switching to high-efficiency inverter technology.

**Daikin’s COP28 exhibition**

* Outdoor unit of a high-efficiency inverter air conditioner (explanation of internal structure)
* Video showing how inverters work
* Inverter demonstration model
* Overview of Daikin global sales and after-sales service networks and related information

References and abbreviations:

[1] Calculated based on Daikin’s demonstration testing  
[2] Calculated by Daikin based on IEA/UNEP ‘Cooling Emissions and Policy Synthesis Report’  
[3] Sourced from the IEA Space Cooling Tracking report

Backgrounder

High-efficiency cooling innovations

**How Daikin is championing the use of inverter technology worldwide**

As the world’s leading provider of heating, cooling, ventilation, air purification and refrigeration (HVAC-R) technology, Daikin understands the importance to reduce the environmental impact of air conditioners to protect our planet.

That’s why Daikin:

* Leads technology and product **development** of high-efficiency inverter air conditioners globally
* Invests heavily in **training** and developing HVAC-R installers, after-sales service engineers, employees and future talent on the **use** and **maintenance** of the latest high-efficiency cooling technologies and innovations
* Partnering with governments and employment centres
* Expands **sales** and **service** networks continually around the world
* Provides the necessary support to countries worldwide for the introduction of **energy-saving regulations**
* To facilitate the spread of high-efficiency inverter air conditioners, proper policies and regulations are necessary worldwide.
* Drives the adoption of inverter products in homes worldwide by:
* Developing an inverter air conditioner at a relatively low price especially for the Asian cooling-only air conditioner market
* Leads the way in creating proper **evaluation and measurement standards** for the energy-efficiency performance of inverter products
* Daikin worked alongside Japan’s air conditioning industry to propose the adoption of seasonal energy efficiency ratio (SEER) as an indicator. This approach has been used in ISO standards since 2013.
* In emerging countries, the use of SEER is starting to grow.

* In Latin America, the Middle East and other areas, Daikin is working with governments and industry groups to introduce indicators and standards, and also energy labelling systems to support the creation of evaluation standards.

**Key facts**

High-efficiency inverter air conditioners reduce electric power consumption by more than 50% [1] compared to non-inverter air conditioners.

Today, air conditioners account for about 10% [2] of the world’s total electricity demand.

Recent developments in emerging countries have led to an increasing energy demand for air conditioners by an average of 4% per year. [3]

*[1] Calculated based on Daikin’s demonstration testing*

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**Benefits of high-efficiency inverter technology**

**In a nutshell**

Inverters are frequency conversion devices that control electrical voltage, current, and frequency. Inverters precisely control the compressor motor, the heart of an air conditioner.

In addition to having modified conventional motors and heat exchangers, inverter air conditioners use 50% less energy than non-inverter models.

**In detail**

When Daikin introduced inverter technology in 1984, this revolutionised energy efficiency in general. Inverter technology controls the rotation speed of the compressor motor on the outdoor unit. Instead of putting energy into starting and stopping, the inverter adjusts the speed of the motor so that it speeds up or slows down and runs more efficiently over time.

The energy-saving effect can be more than 50% compared to non-inverter units. The majority of residential units sold by Daikin worldwide are equipped with inverters, and the company actively promotes the use of inverter technology throughout the entire HVAC-R industry.

**Images**

A diagram of a person running

Description automatically generated

*In contrast to non-inverter units, which lose energy by starting and stopping the motor, inverter units save energy by constantly adapting the motor speed to a room’s temperature.*

Example comparison of energy consumption

A screenshot of a graph

Description automatically generated

Inverter products as percentage of all residential air conditioners worldwide

A screenshot of a graph

Description automatically generated

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**About Daikin**

**Daikin Europe N.V.**

Daikin Europe N.V. is a subsidiary of the global group Daikin Industries, and the leading provider of heating, cooling, ventilation, air purification and refrigeration (HVAC&R) technology in Europe, Middle East and Africa. Daikin designs, manufactures, and brings to market a broad portfolio of products, maintenance services as well as turnkey solutions for residential, commercial, and industrial purposes. To date Daikin Europe has over 13,700 employees across more than 57 consolidated subsidiaries. It has 14 manufacturing facilities based in Belgium, the Czech Republic, Germany, Italy, Spain, Austria, the United Kingdom, Turkey, the United Arab Emirates, and the Kingdom of Saudi Arabia. The headquarters of the Daikin Europe group are in Ostend, Belgium. The company was established in 1972, production in Europe started in 1973.

**About Daikin Industries Ltd.**

Daikin Industries was founded in 1924, in Osaka, Japan. The global group employs over 96,000 people worldwide and is the market leader for heat pump and air conditioning systems, as well as air filtration. It is the only manufacturer in the world that develops and manufactures heating, ventilation, air conditioning and refrigeration equipment, as well as refrigerants in-house. The company achieved € 28.2 billion sales turnover in fiscal year 2022 (1 April 2022 – 31 March 2023).

Read more on [www.daikin.eu](http://www.daikin.eu) and [www.daikin.com](http://www.daikin.com).

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