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Job description	New Chiller series with R32 refrigerant
Category	Press Release
Audience	Installers, Contractors, End Users (facilities Managers)
Sectors	Commercial, Hotel & Leisure
Tags	Daikin – Chillers – high efficiency scroll chillers – R32- low GWP
Tweet	<b>#Daikin expand Bluevolution range – world first air-cooled scroll #chillers with #R32 refrigerant</b>
Version	Final
Owner	Márcia Tavares



## Daikin expands its “Bluevolution” range by introducing new chiller series with R-32 refrigerant

June 4th, 2018

Daikin is the world’s first company to introduce a new generation of air-cooled scroll chiller series with refrigerant R-32.

Daikin launches a new generation of high efficiency air-cooled scroll chiller series with refrigerant R-32. The new Air-cooled chiller range (EWAT~B) will be available for cooling only and heat recovery applications from 80 kW up to 700 kW cooling capacity at nominal conditions.

Compared to the previous R-410A range, seasonal energy efficiency ratio (SEER) is improved by 10%. The chiller range fully complies with the efficiency requirements imposed by current European Legislation (Ecodesign Lot21).

**Daikin is the first in the market to introduce R-32 refrigerant in this sector.**

The Global Warming Potential is 675, which is only one third of the commonly used refrigerant R-410A.

The selection of R-32 (chemical name difluoromethane) minimises the global warming impact of scroll compressor chillers thanks to the lower Global Warming Potential in combination with high energy efficiency.

Daikin, involved in both HVAC and refrigerant businesses, was the world’s first company to introduce R-32 in split air conditioners in 2012, and has expanded the range in the past years to include commercial air conditioners and heat pumps. As of December 2017, Daikin had sold approximately 12 million R-32 units in more than 50 Countries.

Thanks to the lower flammability classification (R-32 refrigerant falls into category class A2L in ISO817), it can be safely used in many applications including chilled water systems. As a single component refrigerant, R-32 is also easier to recycle and reuse, another environmental plus in its favour.



The new Daikin chiller series will be available with two efficiency versions (Silver and Gold), combinable with three sound configurations (Standard, Low and Reduced) and providing full customisation on project-specific requirements.

An extensive list of options and accessories can be provided on request, such as the fully integrated hydronic kit for fixed flow or variable flow operation, partial or total heat recovery for sanitary hot water production and many other solutions.

The new series is fully compatible with the Daikin on Site cloud-based platform, which offers a number of advanced functionalities including remote monitoring, system optimization and preventive maintenance.

More than that, the new Daikin series comes with Master/Slave functionality as standard, allowing the management of up to 4 units on the same system without the need for external control devices.

For more complex installations (e.g. higher number of units, peripherals' control ... etc.. ), Daikin can offer the Intelligent Chiller Manager option, allowing energy optimisation of the system and, when necessary, full customisation of the control solutions to the specific installation's needs.

### Daikin's Refrigerant Policy

Daikin has a long history of continually reducing the environmental impact of cooling, heating and refrigeration products, as well as having a unique expertise that comes from manufacturing both refrigerants and equipment. This position is a result of the company's corporate philosophy to "Be a Company that Leads in Applying Environmentally Friendly Practices".

Regarding refrigerant choice, Daikin has expertise in using fluorinated (HFC, HFO) as well as non-fluorinated gases (ammonia, carbon dioxide, hydrocarbons), because the company believes in diversity of refrigerant choice to allow the best suited solution to be used in each application.

**For a complete overview, please refer to *"Daikin's Policy and Comprehensive Actions on the Environmental Impact of Refrigerants"***

[http://www.daikin.com/csr/information/influence/daikin\\_policy-en.pdf](http://www.daikin.com/csr/information/influence/daikin_policy-en.pdf)

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## EDITOR NOTES

### About Daikin Europe N.V.

Daikin Europe N.V. is a major European producer of air conditioners, heat pumps and refrigeration equipment, with approximately 5,500 employees throughout Europe and 10 major manufacturing facilities based in Belgium, the Czech Republic, Germany, Italy, Turkey and the UK.

Globally, Daikin is renowned for its pioneering approach to product development and the unrivalled quality and versatility of its integrated solutions. With more than 90 years' experience in the design and manufacture of heating and cooling technologies, Daikin is a market leader in heat pump technology. Daikin VRV and Daikin Altherma are the most sold heat pump systems in Europe, with over 500,000 systems delivered to date.

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