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Herborn,
 October 2024

Rittal position on the subject of F-gases

Thank you for enquiring about F-Gas and PFAS in refrigerants from Rittal climate control products.

Introducing several regulatory measures worldwide has led to a gradual phasing out of HFC consumption and production. These include the European Union’s Climate Action Plan, the American Innovation in Manufacturing (AIM) Act and the Kigali Amendment to the Montreal Protocol. These and other recent amendments to laws and regulations support a range of policies consistent with the global mission to slow global warming and reduce greenhouse gas emissions.

At Rittal, we have always placed great importance on offering the best ecological and most sustainable solution for our customers when designing our climate control products and using refrigerants. Examples of this are the first ProOzon cooling units from the 1990s and the development of our Blue e+ cooling unit series with energy efficiency that is still unsurpassed today.

The refrigerants currently used by Rittal comply with the new Ozone Layer Regulation (EC) No. 590/2024 and have an ozone depletion potential (ODP) of zero.

A revised version of the F-Gas Regulation (EU) 573/2024 has been in force since 11.03.2024 in order to accelerate climate protection targets.

This includes an accelerated phase-down of available F-gases to zero by 2050, as well as amended bans on placing new appliances on the market as follows:

product group	Ban on placing on the market	GWP limit
Cooling units	2027	<150*
	2032	No F-gases*
Chiller <12 kW	2027	<150*
	2032	No F-gases *
>12kW	2027	<750
	<3kg ref. charge	2025
IT Split-Cooling units <12 kW	2029	<150*
	2035	No F-gases *
	2029	<750
	>12kW	2033

What is GWP?

Describes the **Global Warming Potential** compared to CO₂.

examples for GWP:

CO₂: 1
 R134a: 1430
 R410A: 2088
 R-513A: 631

* There are exceptions: If the safety requirements at the installation site do not permit the use of refrigerants with a GWP <150, the GWP limit value is 750.

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

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 Personally liable: RITTAL Management GmbH, Schwende-Rüte/ Switzerland
 Management: Markus Asch (CEO), Ulrich Engenhardt, Philipp Guth, Ralph Lindackers, Uwe Scharf

FRIEDHELM LOH GROUP



The marketing bans apply to new appliances, i.e. existing systems may continue to be operated indefinitely. A service and maintenance ban for work on refrigeration circuits for stationary refrigeration systems with F-gases that have a GWP>750 applies from 2032. Exception: Charging with recycled/reprocessed refrigerant is also permitted after 2032.

Due to the revised EU F-Gas Regulation, more companies than before must now register in the EU F-Gas Portal. The new Implementing Regulation EU 2024/2473 of September 19, 2024 with implementing provisions for the F-Gas Regulation EU 2024/573 was published in the EU Official Journal on September 20, 2024 and will apply from October 10, 2024. Among other things, it states that companies must have a valid registration in the EU F-Gas Portal if they want to import or export F-gases and products and equipment containing F-gases from or to countries outside the EU.

The official registration in the F-Gas Portal can be done via this EU website:
[F-gas Portal - Fluorinated Greenhouse Gases – Climate Action \(europa.eu\)](https://europa.eu)

In this context, the EU publishes an overview of the obligations associated with F-gases at the following link:
[F-gases in equipment and products - Fluorinated Greenhouse Gases – Climate Action \(europa.eu\)](https://europa.eu)

In addition to the F-Gas Regulation of the European Union, there are also efforts in the USA and Canada to restrict the use of refrigerants containing F-gases. In the USA, the EPA (Environmental Protection Agency) has enacted a law (US AIM Act) that provides for the use of F-gases with a GWP limit < 700 for cooling units from January 1, 2025 and for chillers from January 1, 2026. In Canada, a GWP limit < 750 for the use of F-gases in cooling units and chillers will also come into force from January 1, 2025 (Canadian Environmental Protection Act Registry).

With the current Blue e+ S cooling units, Rittal already meets the GWP limit of 700 with the refrigerant R-513A. All other cooling units and chillers will also be gradually converted to R-513A. This also applies to our IT products, which we will also gradually switch to alternative refrigerants with low GWP.

In order to make the changeover as easy as possible for our customers, we aim to retain the article numbers and performance data of the appliances.

Our aim at Rittal is to live up to our technological leadership when it comes to future refrigerants. We are constantly pursuing the goal of developing reliable and future-proof technologies for energy-efficient and environmentally friendly cooling solutions and using refrigerants that meet all future global environmental protection requirements. This also applies to all requirements beyond 2027.

A handwritten signature in black ink, appearing to read "Steffen Wagner".

Steffen Wagner

Head of Product Management Cooling Solutions

Rittal GmbH & Co. KG