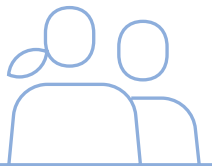




Information on the F-Gas Regulation.

Riedel Kooling service –
we'll take care of it.

Obligations for operators of chillers.



As part of global efforts to improve climate protection, the European Parliament has passed various regulations on the reduction of emissions. In light of recent events, we have summarized these for you overleaf. As part of our Riedel Kooling service, we carry out the leakage tightness tests required by the legislator and the accompanying documentation for all commissioned maintenance free of charge. We are happy to advise you on the scope of services appropriate for your system.

Please speak to our service technicians about this or write to us briefly explaining the matter at hand at service@riedel-kooling.com



We are close to you.

We have a presence in more than 70 countries around the world with our Riedel Kooling service. Our local service is available to you around the clock via our **24/7 hotline +49 9221 709 545** and offers you individual support in all phases of the product life cycle.

Details of our range of services, as well as locations and contact data, can be found on our homepage www.riedel-kooling.com

Information on the F-Gas Regulation.

Riedel Kooling service – we'll take care of it.

From 01/01/2015, valid for systems with refrigerants (e.g. R22) which contribute to the depletion of the ozone layer¹

- **Regular maintenance** by certified personnel and companies from a fill quantity of 3 kg.²
- **Complete ban on use of refrigerants**, including as „recycled goods“, for servicing and maintenance on existing chillers and air conditioning systems.
- Operators are therefore advised to install a new system.

From 01/01/2015, valid for systems with refrigerants with global warming potential³

- **Leakage tightness test requirement.**

At an interval of	12 months* (From 5t CO ² equivalent = fill quantity in kg)	6 months (From 50t CO ² equivalent = fill quantity in kg)	3 months (From 500t CO ² equivalent = fill quantity in kg)	GWP
R134a	3.5	35.0	350	1430
R404A**	1.3*	12.7	127	3922
R407C	2.8*	28.2	282	1774
R410A	2.4*	24.0	240	2088
R417A	2.1*	21.3	213	2346
R513A	7.9	79.1	791	632

The following also apply:

- **Recording requirement** with a storage requirement of five years⁴ regarding the type and quantity of used, and recovered and disposed of refrigerant and all maintenance/inspection measures carried out, and obligation to present the information to the responsible authority on request.
- **Recovery** of refrigerant may only be carried out by certified personnel and companies.

* For systems labelled as hermetically sealed, the double fill quantities apply.

** From 01/01/2020 ban on use for new refrigerant and from 01/01/2030 ban on use for recycled refrigerant from a fill quantity > 10.2 kg.

¹ Chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) in accordance with Regulation (EC) 1005/2009 (ozone layer protection regulation); since 01/01/2010 this has replaced Regulation (EC) 2037/2000 e.g. R22.

² See Regulation (EC) 1005/2009, Article 23.

³ Refrigerant in accordance with Regulation (EU) 517/2014 (F-Gas Regulation); since 01/01/2015 Regulation (EU) 517/2014 has replaced Regulation (EC) 842/2006.

⁴ See Regulation (EU) 517/2014, Article 6.

Only the passages relevant for operators of Riedel Kooling chillers have been outlined. We would refer you to the full wording of the regulations and the penalties for infringements and crimes, as well as the national legislation of the EU states. Riedel Kooling chillers generally contain up to around 77.0 kg refrigerant. Further information can be found at: www.riedel-kooling.com, www.bmu.de, www.gesetze-im-internet.de, www.eur-lex.europa.eu



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