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Turning Green with Every Spin

24 March 2026 | Features

Responsible Cooling with OHAUS General Purpose Centrifuges



WHY THE CHANGE?

OHAUS is leading the way in sustainable laboratory equipment by transitioning the Frontier 5000 Centrifuge Series to R290 – a natural propane-based refrigerant. This change supports global “Green Lab” initiatives, significantly reducing environmental impact without sacrificing the high performance you expect.

This transition was initially triggered by regulations, specifically the European F-gas Regulation 2024/573 and the US Environmental Protection Agency (EPA) Significant New Alternatives Policy (SNAP) regulations, which aim to phase down high-Global Warming Potential refrigerants like R452A and mandate the use of climate-friendly alternatives such as R290.

While regulatory bodies have extended implementation deadlines to give manufacturers more time, OHAUS has taken a proactive approach by meeting the original, stricter requirements early. This means from 2026 on you benefit from access to cutting-edge, environmentally responsible centrifuge refrigeration technology well ahead of upcoming regulatory mandates.

SAFETY YOU CAN TRUST

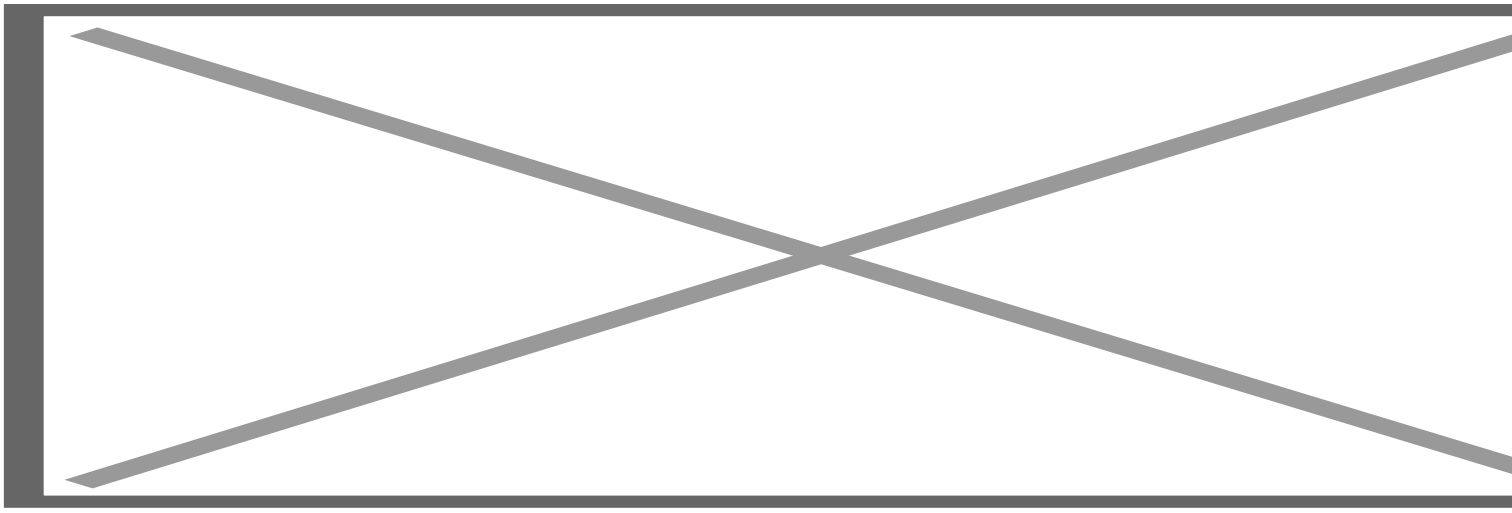
Your safety is our priority. The Frontier 5000 Refrigerated Centrifuges use **hermetically sealed systems** that fully comply with Safety requirements for electrical equipment for measurement, control, and laboratory use IEC 61010-2-011, the international safety standard for laboratory equipment using flammable refrigerants like R290. This ensures **maximum operator protection** – even in unlikely events such as rotor failure or ignition risks – giving you peace of mind alongside superior environmental performance.

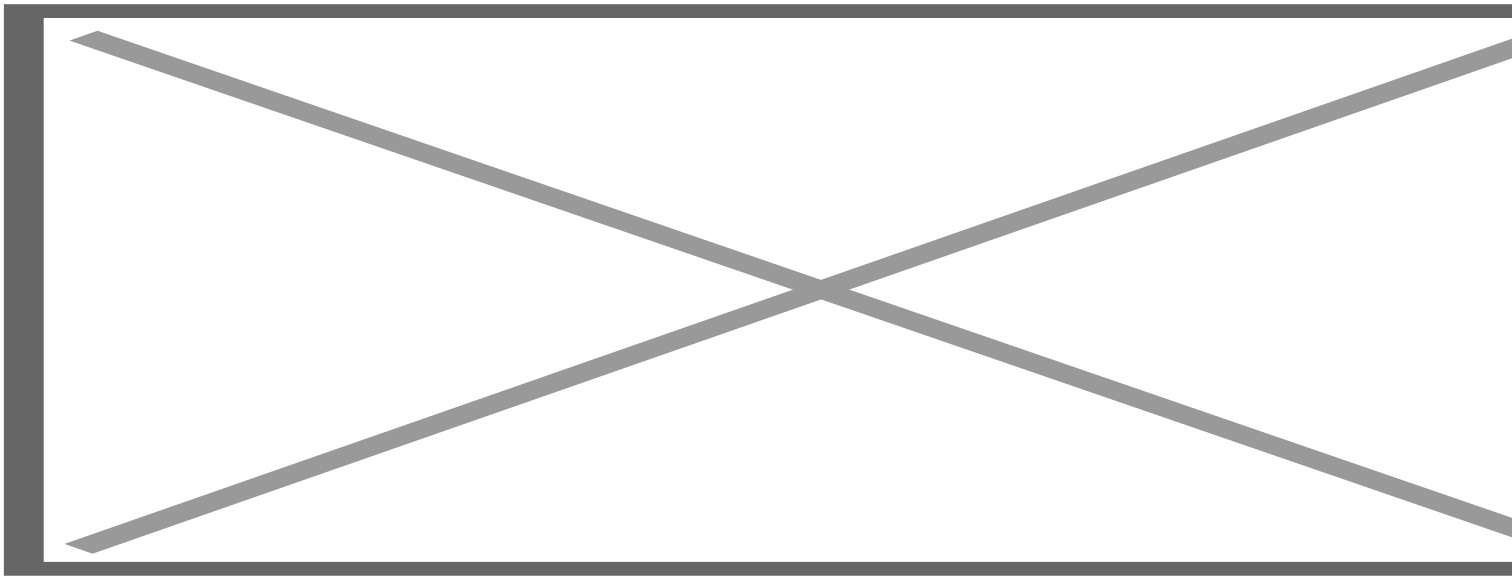
THE IMPACT YOU CAN MEASURE

99% Reduction in Environmental Impact

R290 is one of the most sustainable refrigerants available today. According to the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (2022), propane’s Global Warming Potential (GWP) is as low as 0.02[4].

To put this in context, Global Warming Potential (GWP) defines the relative warming effect of a substance compared to Carbon Dioxide (COâ??), which serves as the baseline with a GWP of 1. This value measures the environmental impact over a specific period - usually 100 years for refrigerants. A GWP of nearly zero confirms that R290 has a negligible impact on the climate compared to traditional options.





You don't have to choose between sustainability and performance:

- **Improved energy efficiency**
  Optimized refrigeration system for lower energy consumption.
- **Better cooling performance**
  Tested to ensure identical user experience and reliability.
- **Full portfolio transition**
  Entire Frontier 5000 Refrigerated Centrifuges Series - not just selected models.

PART OF A BIGGER CHANGE

Supporting the future of Green Lab practices:

Labs are increasingly evaluated on sustainability metrics, energy efficiency, and carbon reduction initiatives. Choosing Frontier 5000 Centrifuges with R290 helps:

- Reduce emissions,
- Support Environmental, Social, and Governance (ESG) and Corporate Social Responsibility (CSR) commitments,
- Future-proof equipment purchases.

Enhance your lab's capabilities while decreasing your energy footprint!

Get to know the OHAUS Frontier™ 5000 Centrifuge Series