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Engineering-First Safety for Industrial Cooling — With No Compromise

Hamburg, Germany — April 16, 2026 – Industrial cooling safety is entering a new era shaped by stricter environmental requirements, new refrigerants, and rising expectations for equipment safety under real operating conditions.

Industrial Protection & Safety is Pfannenberg's integrated answer to this complexity. It is a comprehensive, engineering-driven safety system designed to help customers manage complex environmental safety, equipment protection, and regulatory compliance, without compromise to safety, performance, or reliability.

Pfannenberg is the trusted advisor, guiding customers through regulatory changes and technological transitions, including EU F-Gas compliance, while ensuring that safety is never diluted by simplification or short-term trade-offs often seen in the marketplace.

Safety Without Compromise – Grounded in Engineering Reality

At the core of Pfannenberg's technology is a digital, norm-based Safety Check that evaluates cooling systems based on real operating conditions, not theoretical assumptions. The technology aligns with leading international standards, including:

- **EU F-Gas Regulations** – GWP thresholds without forcing unsafe choices
- **ISO 817** – Refrigerant classification
- **EN 378** – Safety requirements for refrigeration systems
- **IEC 60335-2-40** – Electrical safety and system design

The result is a transparent, structured risk evaluation with clear, actionable recommendations. This enables engineers, safety managers, OEMs, and operators to make fact-based decisions, without compromising safety for convenience or speed.

Engineering First. No Trade-Offs. No Shortcuts.

Dr. Tobias Merl, Chief Executive Officer of Pfannenberg, reinforces the company's safety philosophy: "The transition to environmentally friendly refrigerants is unavoidable. But safety in industrial applications must never be compromised. It must be engineered, based on real operating conditions, not simplified assumptions. Pfannenberg ensures safety remains transparent, controllable, and uncompromised over the entire lifecycle."

Environmental responsibility and equipment safety are treated as interdependent system requirements, not competing objectives.

From One-Time Compliance to Lifetime Safety Assurance
Pfannenberg replaces static compliance checks with continuous safety responsibility. Through a Lifetime Safety Contract, customers gain:

- Ongoing safety oversight without gaps or blind spots
- Documented support for audits and regulatory reviews
- Continuous alignment with evolving safety standards
- Service and maintenance based on real-world risk exposure

This approach ensures safety is maintained, verified, and protected over time, without compromise, even as operating conditions change.

Safe Solutions for Every Application – A Structured Refrigerant Strategy
As refrigerant regulatory compliance standards evolve, Pfannenberg provides clear, application-specific guidance, balancing sustainability targets with uncompromised industrial safety.

- **R-513A – For MRO and Safety-Critical Applications –** offers a non-flammable, high operational reliability solution that is ideal for retrofit and critical industrial applications.

- **CO_2 (R744) – Future-Ready Cooling –** leverages a natural refrigerant for long-term regulatory compliance and optimized for compact industrial applications.

- **Propane – For Outdoor Applications –** high energy efficiency for use in controlled and defined environmental conditions.

- **R-1234yf – Safe by Design –** classified as A2L (mildly flammable) according to ISO 817, Pfannenberg mitigates any risk with patent pending protection technology.

Collective result: simple, user-friendly solutions delivering robust, real-world safety without operational limitations or safety concessions, while providing clear and safe choices for all applications and use cases.

Earl Rogalski, Chief Commercial Officer of Pfannenberg, explains the customer value: “Our customers should never have to choose between sustainability, uptime, or safety. Pfannenberg allows them to move forward confidently, knowing safety is engineered into the system, without compromise or unnecessary trade-offs.”

Safety Is Not a Feature. It is an Uncompromised Expectation.
Pfannenberg Industrial Protection & Safety represents a clear position:

- Engineering-based safety with zero tolerance for shortcuts
- Digital transparency instead of unclear assumptions
- Lifetime protection instead of one-time compliance

There should be no compromise when it comes to safety.

Protecting People, Machines, and the Environment.

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About Pfannenberg

Pfannenberg is a leading global manufacturer of thermal management and signaling technologies. Pfannenberg's mission is to protect people, machines, and the environment with innovative solutions for all kinds of industrial applications. Thermal management solutions from Pfannenberg include the Filterfan®, cooling units, chillers and more, all designed to maintain the temperature of electronics, keeping them safe and protecting critical manufacturing processes. Visual and acoustic signaling devices protect both personnel and equipment and are designed to satisfy numerous safety requirements. Users in demanding environments can trust Pfannenberg's technologies to minimize downtime and ensure a safe workplace.

Pfannenberg was founded in 1954 in Germany and now has locations across the globe. For more information, visit: www.pfannenberg.com