

Klea® 473A

Ultra Low Temperature Refrigerant

High-performing replacement for R-23/R-508B

Orbia Fluor & Energy Materials has over **50 years of experience** delivering trusted solutions, with innovation, sustainability and customer focus driving our approach.

Our latest innovation, Klea® 473A is designed to achieve **high performance** with a significantly **lower global warming potential** to support the ever increasing demand across the industry.

Applications

- High value cold chain
- Medical
- Pharmaceutical
- Test Chambers

Expected Benefits

- Lower GWP
- 1.6K temperature glide
- Non-flammable
- Security of supply

Expected Performance

- ∅ Effective to at least -75 °C
- ⟨✓ Improved cooling capacity compared to R-23
- Charge size reduction of up to 15%





Details

Lower GWP. With a GWP of ca 1,800, this represents a 90% reduction compared

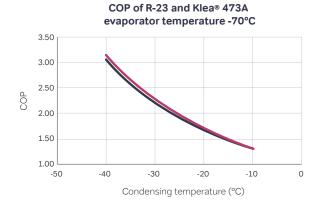
Meets US AIM Act and EU F-Gas regulations.

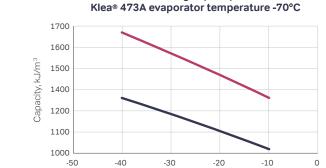


Volumetric cooling capacity of R-23 and

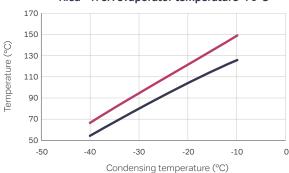
Preliminary Performance Modelling





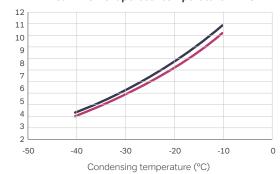


Compressor exit temperature of R-23 and Klea® 473A evaporator temperature -70°C





Condensing temperature (°C)





Non flammable A1 ASHRAE safety

in UK, USA & Asia

Security of supply Manufacturing available

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Pressure ratio

