



Koura Klea[®] 473A

Next Generation Refrigerant

Koura 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
- Excellent performance
- Non-flammable
- Security of supply

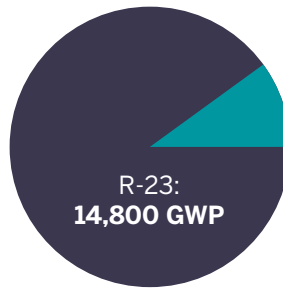
Expected Performance

- ✓ Low glide
- ✓ Effective to at least -75 °C
- ✓ Improved cooling capacity compared to R-23
- ✓ Improved energy efficiency 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 to R-23.

Exceeds F-Gas regulations and future proof.

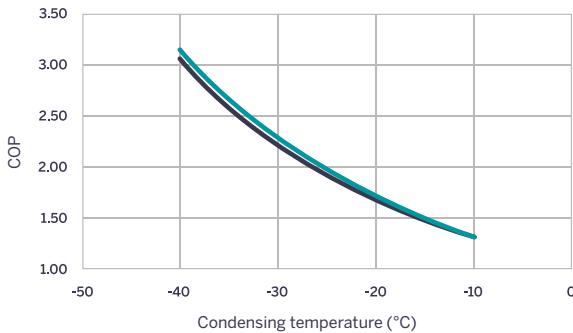


Klea® 473A:
1,800 GWP

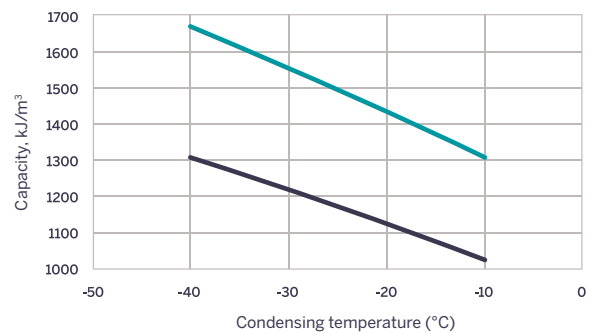
Preliminary Performance Modelling

Key: R-23 — Klea® 473A —

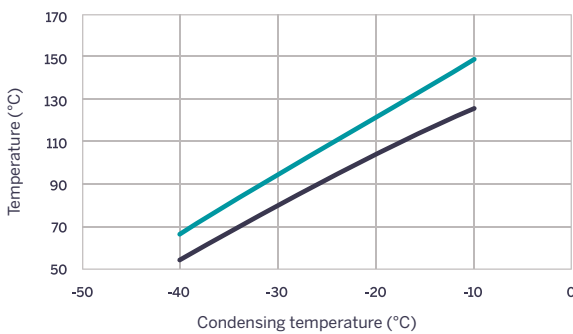
COP of R-23 and Klea® 473A
evaporator temperature -70°C



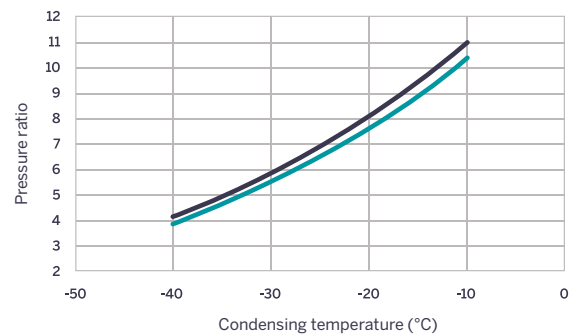
Volumetric cooling capacity of R-23 and Klea® 473A
evaporator temperature -70°C



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



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



Non flammable

Proposed A1 ASHRAE classification



Security of supply

Manufacturing available in UK, USA & Asia

Contact us today to see how we can work together

✉ info@kouraglobal.com

🐦 @KleaRefrigerant

in Koura Klea Refrigerant

Koura
Klea®

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