



Koura Klea[®] 473A

Sustainable Ultra Low Temperature Refrigerant

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

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

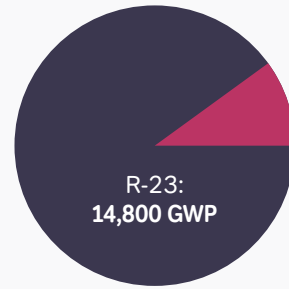
Expected Performance

- ✓ 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.

Meets US AIM Act and EU F-Gas regulations.



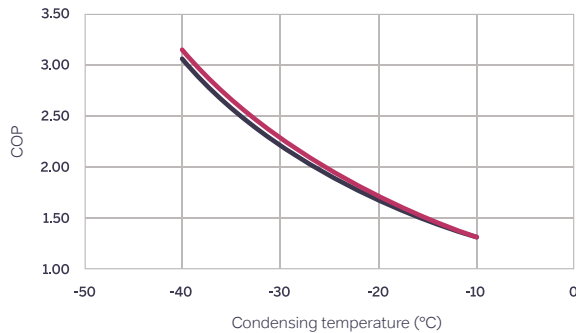
Klea® 473A:
1,800 GWP

R-23:
14,800 GWP

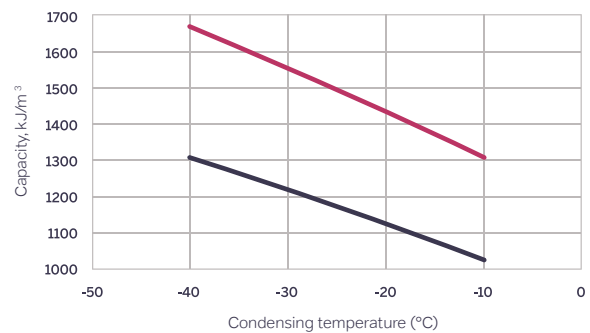
Preliminary Performance Modelling

Key: R-23 — Klea® 473A —

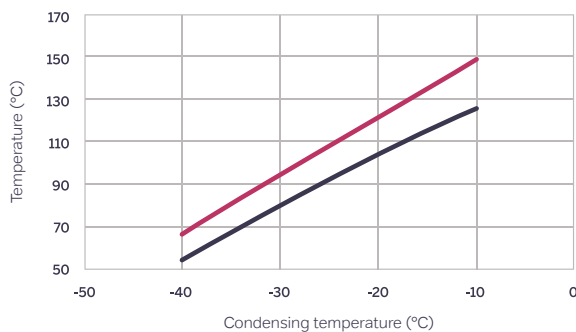
COP of R-23 and Klea® 473A
evaporator temperature -70°C



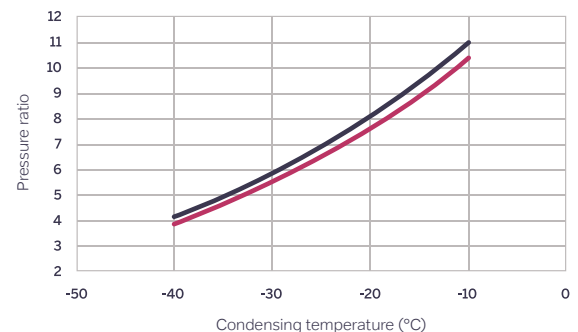
Volumetric cooling capacity of R-23 and Klea® 473A
evaporator temperature -70°C



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

A1 ASHRAE safety classification



Security of supply

Manufacturing available in UK, USA & Asia

For more information, contact info@kouraglobal.com Safety Data Sheets available at kouraglobal.com

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