



# Koura Klea<sup>®</sup> 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<sup>®</sup> 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

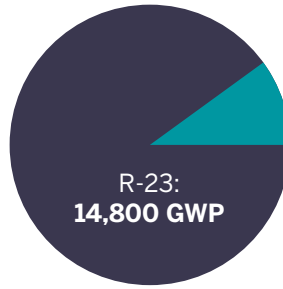
### Expected Performance

- ✓ 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.

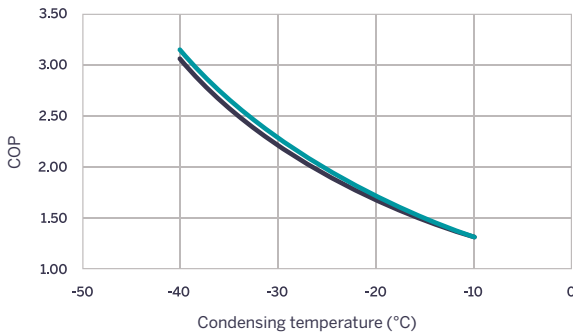


**Klea® 473A:**  
**1,800 GWP**

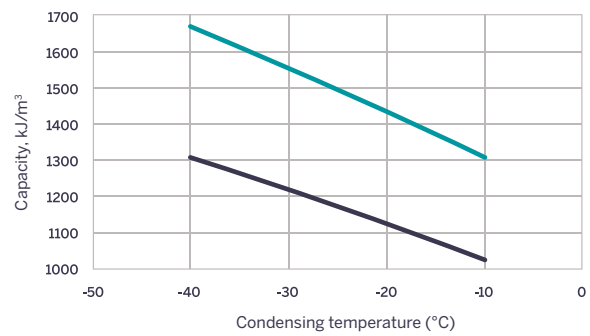
## Preliminary Performance Modelling

Key: R-23 — Klea® 473A —

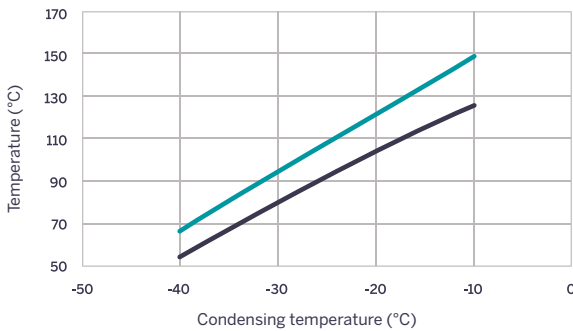
**COP of R-23 and Klea® 473A**  
evaporator temperature -70°C



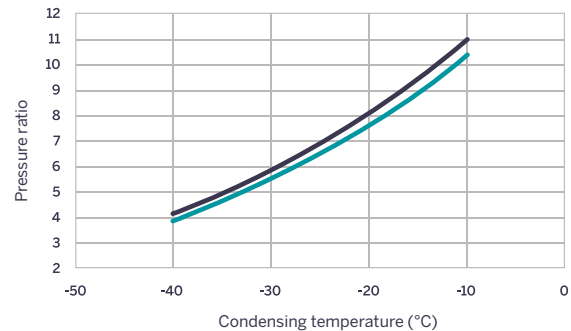
**Volumetric cooling capacity of R-23 and Klea® 473A**  
evaporator temperature -70°C



**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](mailto:info@kouraglobal.com)

🐦 @KleaRefrigerant

in Koura Klea Refrigerant

**Koura**  
**Klea®**

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