

Gas Doctor Testing Service





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Refrigerant Gas Analysis

Importance of operating at optimum capacity

Maintaining your refrigeration system at peak performance is important to protect valuable business assets. At the first sign of poor performance, an accurate diagnosis of the problem can help avoid costly repairs or system failure.



Why Test Refrigerant?

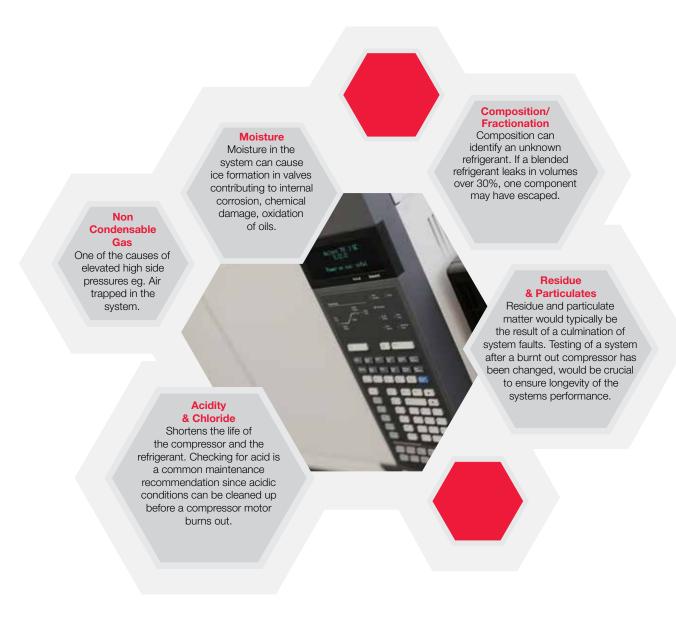
- Performance/capacity loss, could be due to partial loss of refrigerant charge in a system (fractionation)
- High head pressures, typically relate to the presence of non-condensables
- Compressor burn outs, may result in high acidity and particulate matter which may cause premature failure of motor windings and damage to copper piping
- A preventative measure as part of your routine annual maintenance

How to ensure you are operating at optimum capacity



Gas Doctor Testing

The Heatcraft Gas2Go® Doctor Testing Service is able to provide testing on:



Example of refrigerant properties table from analysis: R410A

Characteristic	Sample Type	Test Method	AHRI 700 Limits Specification	Test Results	
Non Condensable Gas (% v/v)	Vapour	GC-TCD	≤1.5%	0.05%	Pass
Moisture (ppm)	Liquid	Titrametric	≤10ppm	118.8ppm	Fail
High Boiling Residues (% w/w)	Liquid	Gravimetric	0.01%	0.07%	Fail
Acidity as HCI (ppm)	Liquid	Titrametric	≤1ppm	<1ppm	Pass
Composition HFC-125 (%w/w)	Liquid	GC-FID	49.5% - 51.5%	51.4%	Pass
Composition HFC-32 (%w/w)	Liquid	GC-FID	48.5% - 50.5%	48.6%	Pass

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The Gas2Go® Doctor Testing Service has been valuable in testing CO_2 refrigeration systems. Due to the water absorbing nature of PAG and POE oils, oil tests may provide inconsistent results, causing the unnecessary changing of the driers and possibly the oil. Gas2Go® Doctor Testing Service provides an accurate analysis of the true contaminant levels in the system.

Does your business suffer from:

- Inconsistencies in current oil sample tests
- The unnecessary cost of replacing refrigerant driers and oil
- The increased cost of parts and labour due to invalid information

Let Heatcraft Help:

- Proven test accuracy with ISO9001 accredited lab
- Oil test kits available
- Low volume samples required
- Track annual testing requirements by site
- Track post commissioning results by site





