

# LEAK TESTING

The **F-Gas Regulation Requirement** for leak testing existing systems is based on the charge size in tonnes of CO<sub>2</sub> equivalent. So systems with higher GWP refrigerants will need to be leak tested more frequently than those with the same charge weight of a lower GWP refrigerant.

The GWP of refrigerants is provided in **A-Gas' Guide to Calculating CO<sub>2</sub> Equivalent**.

## Frequency of leak checks

Fluorinated greenhouse gases (t CO <sub>2</sub> eq)	Maximum Frequency of leak checks	
	No Leakage detection system	Leakage detection systems
5 - 50	12 months	24 months
50 - 499	6 months	12 months
> 500	3 monthly <sup>1</sup>	6 months

Leakage detection systems are mandatory when the equipment contains more than 500t CO<sub>2</sub> equivalent of refrigerant.

**Note:** As of January 1<sup>st</sup> 2017 leak checks are mandatory for systems < 3 t CO<sub>2</sub> eq.

Fixed leak detection must alert the operator of the system or the service company and must be checked once a year. The requirement for maintaining system logs changes from 3kg HFC to 5 tonnes CO<sub>2</sub> equivalent.

## Example

Refrigerant	GWP	kg	t CO <sub>2</sub> eq
R404A	3922		
		0.76	3
		1.27	5
		12.75	50
		127.49	500