

# GasTest 3000

## Moody Heat Exchangers are proud to introduce to the UK market the latest innovation in gas testing technology

Centrally based in Retford, Nottinghamshire, Moody Heat Exchangers have been operating for over 40 years. We provide a full service solution for all your heat exchanger requirements.

Whether you require a replacement plate pack, individual plate, gasket set, gasket, refurbishment, integrity testing or a service contract we can deliver.

### How it works

The GasTest 3000 system has been developed not only to give the pass or fail results of current systems on the market but it also has the ability to indicate the potential risk of future plate or gasket failure.

This enables preventative measures to be put into place, reducing unforeseen production downtime. The GasTest 3000 system uses the non-corrosive and non-toxic mixture of 10% Hydrogen and 90% Nitrogen gas.

This mixture in comparison to the more commonly used helium gas is much more effective as the lighter molecules are less dense, therefore providing more accurate test results.

### What it detects

In a single inspection the GasTest 3000 can identify the following defects:

#### **Plate Heat Exchangers**

Internally:

- Plate Cracks
- Micro Cracks > 30µm
- Micro Cracks < 30µm
- Corrosion
- Material Fatigue

Externally:

- Gasket Conditions

#### **Tubular Heat Exchangers**

- Defect Tubes
- Weld inspection
- Material fatigue



# Quality Assurance

Preventative inspection of your plate heat exchangers is essential in identifying problems before they become bigger issues. Cross contamination due to a leak can cause costly down time, product loss and fail to meet hygiene standards.

When compared with other methods of crack leak detection, the GasTest 3000 can identify various defects in a single inspection:

		Inspection Range					
		Plate Cracks	Micro Cracks > 30µm	Micro Cracks < 30µm	Corrosion	Material Fatigue	Gasket Conditions
Method	Pressure Test	✓	✗	✗	✗	✗	✗
	Conductivity Test	✓	✗	✗	✗	✗	✗
	Tracer Fluid Test	✓	✓	✗	✗	✗	✗
	Dye Test	✓	✓	✓	✗	✗	✗
	Helium Test	✓	✓	✓	✗	✗	✗
	<b>GasTest 3000 (Hydrogen)</b>	✓	✓	✓	✓	✓	✓

## Examples of defective plates

Causes of these defects include:

- Corrosion
- Pulsations
- Water hammers
- Thermal expansion
- Material fatigue



## Get in touch



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