

Tracer Gas Filler

TGF10



CONTROLLED TRACER GAS INJECTION THE EASY WAY

The TGF10 Tracer Gas Filler is an accessory to the H2000 PLUS Hydrogen Leak Detector, designed to fill a test object with tracer gas so that leaks can be located. The instrument is specially designed for users who want to locate leaks following pressure decay measurement. It can also be used as a simple tracer gas filler in small series production.

The TGF10 is adapted for simple integration with existing pressure decay equipment. Leaks can be located immediately after pressure decay measurement in the same fixture, which means that no extra fixtures are required. In this way the user can also check for leaks in the fixture, and quickly repair any leaking connections, etc. This minimises downtime and reduces the number of false rejects.

The TGF10 can also be used at a separate workstation designed for repair work.

The Hydrogen Method

The TGF10 belongs to a family of instruments based on the Hydrogen Method. This method involves injecting a safe, environmentally friendly tracer gas containing 5% Hydrogen in Nitrogen into the test object. A unique 100% selective Hydrogen sensor tells the operator where the leak is and how big it is.

Evacuates, fills and drains your test object

The TGF10, which is controlled by the H2000 PLUS Hydrogen Leak Detector, evacuates the test object for a preset time when you press START. This ensures that the tracer gas spreads to all parts of the test object.

When evacuation is complete, the test object is automatically filled with tracer gas up to the pressure set on the gas bottle regulator. Locating of leaks can now start using the probe connected to the H2000 PLUS Hydrogen Leak Detector. When leak locating is complete you press STOP, and the tracer gas is evacuated from the test object and released via the exhaust so as not to disrupt the next test. When the final evacuation is complete, the test object is automatically filled with air to atmospheric pressure.



TECHNICAL SPECIFICATIONS

SUPPLIES

Supply voltage: 24 VDC from H2000 PLUS Hydrogen Leak Detector

Compressed air: 400-800 kPa (4-8 bar) / filtered to 40 µm

Tracer gas: 5% Hydrogen in Nitrogen (5%H₂ /95%N₂)

Tracer gas pressure: 0-900 kPa / 0-9 bar

Connections: Tracer gas, outlet, compressed air and test object: internal 1/4" pipe thread (ISO G1/4")
H2000 PLUS: APC bus cable (supplied)
Active Probes: APC bus cable (not supplied)

CAPACITY

Maximum vacuum: -0.85 bar (85% vacuum)

Evacuation time: 0,7 s/l to -0,5 bar, 1,6 s/l to -0,7 bar, 3,0 s/l to -0,8 bar

Fill time: 600 std l / min free flow: typically 1.0 s / l
Please note! The capacity depends on the connection to the test object.
The above values are based on a 1.5 m hose with ID 5.5 mm.

Weight: 5 kg (11 lbs)

Dimensions: (hwxwd) 100 x 275 x 205 mm

Accessories: The TGF10 can be connected to Active Probes AP55 (sniffer probe) or AP57 (counter flow probe).

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