



TGF10

Tracer Gas Filler

CONTROLLED TRACER GAS INJECTION THE EASY WAY

The TGF10 Tracer Gas Filler is a simple and reliable instrument for charging the test object with tracer gas and evacuating it again. It 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 an accessory to the Sensistor ISH2000 Hydrogen Leak Detector, from which all control parameters are easily set up. The TGF10 utilizes a venturi pump for gas evacuation. A venturi pump is powered by compressed air and has no moving parts, thus minimizing maintenance.

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, so no extra fixtures are required. The user can also check for leaks in the fixture, and quickly repair any leaking connections. This minimizes downtime and reduces the number of false rejects.

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

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.

FEATURES AT A GLANCE

- ▮ Evacuates, fills and purges the test object
- ▮ Simple and reliable operation
- ▮ Easy setup
- ▮ Simple integration with existing pressure decay equipment
- ▮ Small size and robust design
- ▮ Minimal maintenance
- ▮ Leaks can be located immediately after pressure decay measurement in the same fixture

HOW IT WORKS

The TGF10, which is controlled by the Sensistor ISH2000 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 leaks can now start using

the probe connected to the Sensistor ISH2000 Hydrogen Leak Detector.

When leak locating is complete press STOP. The tracer gas is evacuated from the test object and released via the exhaust, so as not to disrupt the next test. The test object will then automatically be filled with air to atmospheric pressure.

SPECIFICATIONS

Supplies

Supply voltage	24 V(dc) from Sensistor ISH2000 Hydrogen Leak Detector
Compressed air	400-800 kPa (4-8 bar, 58-116 PSI)/filtered to 40 µm
Tracer gas pressure	0-900 kPa (0 – 9 bar, 0-130 PSI)
Connections	Tracer gas, outlet, compressed air and test object: internal 1/4 in. pipe thread (ISO G1/4 in.) Sensistor ISH2000: 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 4.9 ft. (1.5 m) hose with ID 0.2 in. (5.5 mm)
Ambient temperature range	50° to 122°F (10° to 50°C)
Dimensions (H x W x D)	3.9 in. x 10.8 in. x 8 in. (100 mm x 275 mm x 205 mm)
Weight	9.9 lb. (4,5 kg)

ORDERING INFORMATION

	Part no.
TGF10 Tracer Gas Filler	590-557

Accessories

APC Bus cable, 3.2 ft. (1 m)	591-282
AP55 Sniffer Flow	590-550
AP57 Counter Flow Probe	590-555

The TGF10 can also be connected to the following active probes: AP55 Sniffer Probe or AP57 Counter Flow Probe.

