

Sensistor® ILS500 F Leak Detection Filler

Controlled Tracer Gas Handling



Eliminate time-consuming manual tracer gas filling

The Sensistor ILS500 F Leak Detection Filler is a tracer gas filling unit with complete tooling and gas filling functions. ILS500 F is versatile and can be combined with both hydrogen and helium INFICON leak detectors. Available also in high pressure version, the unit eliminates the need for time-consuming manual tracer gas filling and significantly improves test quality assurance.

ADVANTAGES AT A GLANCE

- Compact unit, simple to combine with all INFICON leak detectors
- Fast test procedure set up, guided installation on color touch display
- Complete tooling and gas filling function
- Includes gross leak test prior to leak test for immediate detection of larger leaks
- Downloads and back-ups through USB port
- Available also in high pressure version (HP)

COMPLETE TOOLING AND GAS FILLING FUNCTION FOR HIGH-QUALITY LEAK DETECTION

The ILS500 F Tracer Gas Filler can perform a complete test sequence, from gas injection and evacuation to tooling connection and disconnection, gross leak test, vacuum decay test, pressure decay test, blockage test and recipe handling. The described steps give a brief presentation of how a typical test sequence works.

A. TOOLING CONNECTION (OPTIONAL)

The text sequence starts by activating the pneumatic tooling outputs, thereby pressing the gas connectors and plugs towards the test object.

B. PRE-EVACUATION AND GROSS LEAK TEST (OPTIONAL)

The test object is pre-evacuated to facilitate the tracer gas filling. Optional procedures are available to detect gross leaks making further testing unnecessary.

C. LEAK DETECTION

A leak detector is used to measure the amount of leaking tracer gas from the test object.

D. TRACER GAS EVACUATION AND TOOLING DISCONNECTION (OPTIONAL)

Tracer gas evacuation is started and gas connectors disconnected.

SENSISTOR ILS500 F LEAK DETECTION FILLER

SPECIFICATIONS

Start time	37 s
Supplies	Electrical: Mains Voltage: Single Phase, 85-264 V (ac) / 47-63 Hz Current: 1.0 A @ 100 V (ac) / 0.45 A @ 230 V (ac) Power Rating: 120 W max. / 33 W typical average Compressed Air: Standard Pressure version: 0.35 – 0.7 MPa (50 – 100 psi) High Pressure version: 0.5 – 0.7 MPa (70 – 100 psi) Peak Consumption @ 0.6 MPa (87 psi): 240 l/min (508 SCFH) Tracer gas: No corrosive, condensable nor oxidizing gas Standard Pressure version: 0.005 – 1.0 MPa (0.72 – 145 psi) High Pressure version: 0.02 – 3.0 MPa (3 – 435 psi)
Pneumatic	Evacuation: Max Vacuum: -85 kPa (-12.3 psi) Capacity: 0.4 s/l to -50 kPa (-7.2 psi), 1.5 s/l to -80 kPa (-11.6 psi) Filling: Capacity at 1 MPa supply: 0.1 s/l to 0.1 MPa (14.5 psi), 0.5 s/l to 0.6 MPa (87 psi) Tooling Output Valves: Valve type: Normally closed, 3/2 valve Qn: 160 std l/min. Cv: 0.16 USGPM/psi Gas and Air Connection: Female ISO 3/8 in. (ISO to NPT 3/8 in. adapters incl.)
Environment	Temperature: 10° — 40°C (50° — 100°F) Humidity: 85% RH (non-condensing)
Dimension (H x W x D)	295 mm x 275 mm x 330 mm (12 in. x 11 in. x 13 in.)
Weight	14,3 kg (31.5 lb.)
Communication ports	USB Ethernet: RJ45 (Modbus) RS232: male, 9 pin, D-sub
I/O Port signal	Output Capacity: max. 0.5 A / output (max. 2.5 A total), 24 V (dc) logic

ORDERING INFORMATION

PRODUCT	Cat. no.
Sensistor ILS500 F	590-580
Sensistor ILS500 FHP	590-581
ACCESSORIES	
No-Stop Maintenance Kit	590-680
No-Stop Maintenance Kit HP	590-685