



# Sensistor ILS500 F

## Leak Detection Filler

### CONTROLLED TRACER GAS HANDLING INCLUDING TOOLING CONTROL AND GROSS LEAK TEST

Sensistor ILS500 F is the filler version of the Sensistor ILS500 Leak Detection System, with complete tooling and gas filling functions and without the leak detector unit. The versatile unit can be combined with both hydrogen and helium INFICON leak detectors. Available also in high pressure version, ILS500 F 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.

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

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 connected to the ILS500 F measures the occurrence of tracer gas in the test chamber and starts the leak test.

##### D. TRACER GAS EVACUATION AND TOOLING DISCONNECTION (OPTIONAL)

Tracer gas evacuation is started and gas connectors disconnected. Any tracer gas in the test chamber is easily ventilated away as the chamber is opened.

#### FEATURES 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
- Available also in high pressure version
- Significantly improves test quality assurance
- Eliminates the need for time-consuming manual tracer gas filing
- Includes gross leak test prior to leak test for immediate detection of larger leaks
- Downloads and back-ups through USB port

## SPECIFICATIONS

Start time	20 s
Supplies	<p>Electrical: Mains Voltage: Single Phase, 85-260 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</p> <p>Compressed Air: Pressure: 0.35 – 0.7 MPa (50 – 100 psi). Peak Consumption @ 0.6 MPa (87 psi): 240 l/min (508 SCFH)</p> <p>Tracer gas: No corrosive, condensable nor oxidizing gas Pressure: 0.005 – 1.0 MPa (0.72 – 145 psi)</p>
Pneumatic	<p>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)</p> <p>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)</p> <p>Tooling Output Valves: Valve type: Normally closed, 3/2 valve Qn: 160 std l/min. Cv: 0.16 USGPM/psi</p> <p>Gas and Air Connection: Female ISO 3/8 in. (ISO to NPT 3/8 in. adapters included)</p>
Environment	<p>Temperature: 10° to 40°C (50° to 100°F) Humidity: 85% RH (non-condensing)</p>
Dimension (H x W x D)	12 in. x 11 in. x 13 in. (295 mm x 275 mm x 330 mm)
Weight	35.8 lb. (16.25 kg)
Communication Ports	<p>Ethernet: RJ45 RS232: male, 9 pin, D-sub</p>
I/O Port Signals	Output Capacity: max. 0.5 A / output (max. 2.5 A total), 24 V (dc) logic

## ORDERING INFORMATION

ILS500 F versions	Part no.	Accessories	Part no.
Sensistor ILS500 F	590-571	No-Stop Maintenance Kit	590-680
Sensistor ILS500 FHP	590-573		

