

Sensistor® ILS500 F Tracer Gas Filler

Controlled tracer gas handling.

The ILS500 F Tracer Gas Filler is a complete, automated solution for precise tracer gas filling, eliminating the need for time-consuming manual processes. It ensures accurate tracer gas handling, reduces operator error, and supports reliable, repeatable test results. Compatible with INFICON leak detectors using hydrogen or helium, the unit is also available in a high-pressure version to meet demanding industrial requirements and enhance overall test quality assurance.

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 test 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

Once the test object is filled with tracer gas to the preset pressure, a leak detector is used to measure the amount of tracer gas escaping from the part

D) TRACER GAS EVACUATION AND TOOLING DISCONNECTION (OPTIONAL)

The tracer gas is evacuated, and the test object is filled with air to minimize residual gas release before disconnecting the connectors

ADVANTAGES AT A GLANCE

- ✓ Compact unit, simple to combine with 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
- ✓ Minimizes residual gas release and contamination of the test area
- ✓ Available also in high pressure version (HP)

ILS500 F TRACER GAS 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:	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)	
Dimensions (W x H 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	4 programmable pneumatic outputs 4 programmable electrical inputs Several 24V status signals	

ORDERING INFORMATION		
PRODUCT	CATALOG NUMBER	
Sensistor ILS500 F	590-580	
Sensistor ILS500 FHP	590-581	
ACCESSORIES		
No-Stop Maintenance Kit	590-680	
No-Stop Maintenance Kit HP	590-685	

