

Sensistor® ILS500 F Leak Detection Filler

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



ADVANTAGES

- Complete tooling and gas filling function for high-quality leak detection
- Eliminates the need for time-consuming manual tracer gas filling
- Less operator dependence - full control over all test steps
- Significantly improves test quality assurance
- Compact unit, simple to combine with all INFICON leak detectors
- Shorter cycle times
- The system uses well proven and tested components and subsystems

FEATURES

- Complete tooling and gas filling function
- Color touch screen for easy setting the parameters
- Downloads and back-ups through USB-port
- Includes gross leak test prior to leak test
- Available also in high pressure version

ORDER INFORMATION

| Type | Sensistor ILS500 F Leak Detection Filler | Sensistor ILS500 FHP Leak Detection Filler, high pressure model |
|---|--|---|
| Sensistor ILS500 F Leak Detection Filler | 590-580 | |
| Sensistor ILS500 FHP Leak Detection Filler, high pressure model | | 590-581 |

SPECIFICATIONS

| Type | Sensistor ILS500 F Leak Detection Filler | Sensistor ILS500 FHP Leak Detection Filler, high pressure model |
|-------------------------------------|--|--|
| Electrical Supplies | | |
| Mains Voltage | Single Phase, 85-264 VAC / 47-63 Hz | Single Phase, 85-264 VAC / 47-63 Hz |
| Current | 1.0 A @ 100 VAC / 0.45 A @ 230 VAC | 1.0 A @ 100 VAC / 0.45 A @ 230 VAC |
| Power Rating | 120 W max. / 33 W typical average | 120 W max. / 33 W typical average |
| Compressed Air Supplies | | |
| Pressure | 0.35 – 0.7 MPa (50 – 100 psi) | 0.5 - 0.7 MPa (70 - 100 psi) |
| Peak Consumption @ 0.6 MPa (87 psi) | 240 l/min (508 SCFH) | 240 l/min (508 SCFH) |
| Tracer Gas Supplies | | |
| - Pressure | 0.005 - 1.0 MPa (0.72 - 145 psi) | 0.02 - 3.0 MPa (3 - 435 psi) |
| Recommended Composition | 5% H ₂ /95% N ₂ | 5% H ₂ /95% N ₂ |
| Evacuation | | |
| Capacity | 0.4 s/l to -50 kPa (-7.2 psi), 1.5 s/l to -80 kPa (-11.6 psi) | 0.4 s/l to -50 kPa (-7.2 psi), 1.5 s/l to -80 kPa (-11.6 psi) |
| Max Vacuum | -85 kPa (-12.3 psi) | -85 kPa (-12.3 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) | 0.1 s/l to 0.1 MPa (14.5 psi), 0.5 s/l to 0.6 MPa (87 psi) |
| Tooling Output Valves | | |
| Cv | 0.16 USGPM/psi | 0.16 USGPM/psi |
| Qn | 160 std l/min | 160 std l/min |
| Valve type | Normally closed, 3/2 valve | Normally closed, 3/2 valve |

SPECIFICATIONS

| Type | Sensistor ILS500 F Leak Detection Filler | Sensistor ILS500 FHP Leak Detection Filler, high pressure model |
|---------------------------|---|---|
| Gas and Air Connection | Female ISO 3/8 in. (ISO to NPT 3/8 in. adapters included) | Female ISO 3/8 in. (ISO to NPT 3/8 in. adapters included) |
| Input / Output | USB RS232: male, 9 pin, D-sub Ethernet: RJ45 (Modbus) | USB RS232: male, 9 pin, D-sub Ethernet: RJ45 (Modbus) |
| Output Capacity | max. 0.5 A / output (max. 2.5 A total), 24 VDC logic | max. 0.5 A / output (max. 2.5 A total), 24 VDC logic |
| Environment | | |
| Ambient temperature range | +10 to +40°C (+50 to +100°F) | +10 to +40°C (+50 to +100°F) |
| Humidity | 85% RH (non-condensing) | 85% RH (non-condensing) |
| Start time | 37 s | 37 s |
| Dimension (H x W x D) | 295 x 275 x 330 mm (12 x 11 x 13 in.) | 295 x 275 x 330 mm (12 x 11 x 13 in.) |
| Weight | 14,3 kg (31.5 lb.) | 14,3 kg (31.5 lb.) |

ACCESSORIES

| | Sensistor ILS500 F Leak Detection Filler | Sensistor ILS500 FHP Leak Detection Filler, high pressure model |
|--|--|---|
| No-Stop Maintenance Kit (incl. venturi pump, valves, Allen key, screwdriver etc.) | 590-680 | - |
| No-Stop Maintenance Kit ILS500 FHP (incl. venturi pump, valves, Allen key, screwdriver etc.) | - | 590-685 |



www.inficon.com reachus@inficon.com

Due to our continuing program of product improvements, specifications are subject to change without notice. RateWatcher is a trademark of INFICON. All other trademarks are the property of their respective owners.

(2022-02) © 2022 INFICON