

Product Datasheet  
ALF150 Duct Leakage Tester



## Overview

The ALF150 is designed with three rapid change (push in – pull out) conical inlet nozzles designed to ISO5801:2007. The use of conical inlet nozzles makes the ALF150 a primary measuring device.

The ALF150+ is the high-end version of the ALF150. It features ambient temperature and barometric/absolute pressure sensors for real-time compensation giving improved accuracy when measuring flow rates. It also features a PID test pressure control mode with data logging, providing a fully automatic test facility for increased productivity.

Both the ALF150 and ALF150+ come with a single all in one instrument making this duct leakage tester is easy to use and configure through the intuitive menu driven user interface. The instrument is equipped with Bluetooth 2.0, SD Card, and USB Output. A Flexi-Hose with pre-connected machine coupling, duct adapter and static pressure tubing is included in the carry case so that the ALF150 is ready to use from the moment it is unpacked.

## Product Features

- Portable & lightweight; Single person lift.
- Everything pre-connected and ready to use
- Rapid change Conical Inlet Nozzles.
- Easy to use single instrument with menu driven interface.
- SD card & USB Data output.
- Bluetooth 2.0 for Bluetooth enabled thermal printer.
- Configurable settings include:
  - Ambient conditions, sensor damping, units of measure, data record rate.
- Able to measure flow in STD conditions or Actual conditions.
- Four operating languages: English, French German & Spanish.
- Only return the electronic instrument for annual calibration.
- Entire unit can fit in boot of a small hatchback car.
- Maximum recommended SD card – 32GB SDHC Class 1




















## Applications

- Ductwork Leakage Testing
- Damper Leakage Testing
- Chilled Beam Testing
- AHU Leakage Testing
- Other End of Line Testing
- Testing after refurbishments
- Testing before/after duct cleaning
- Automatic back pressure compensated flow measurement for Fan testing.

## Comparison of the ALF150, and the ALF+

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### Key Feature Comparison

	ALF150	ALF+
DW/143 Class A-D, Eurovent 2/2, SMACNA Standards		
Three Rapid Change Conical Inlet Nozzles		
240V or 110V Options		
Measure Leakage in Actual or STD Conditions		
Data Output to SD Card & USB		
Bluetooth for Printer		
Manually Program Ambient Conditions		
Manual Test Control		
PID Test Control by Programmable Target Pressure		
Measure Ambient Temperature, Barometer & Humidity in Real Time		

## Specifications

Standards	BS EN 1507, 12237, DW/143, SMACNA		
Volume Flow Measurement	1 to 150 l/s - Over Nozzle Range		
Pressure Measurement	±2500 Pa		
Typical Duty Points	70 l/s at 2000 Pa 140 l/s at 500 Pa		
Pressure Measurement Accuracy	±1% of reading ±1 digit		
Volume Flow Accuracy	±2.5% of reading ±1 digit		
Temperature Accuracy	K – Type Thermocouple:	±3°C	
	Temperature & Humidity Probe:	±0.25°C ±2%RH	
Barometer Accuracy	±0.25 hPa		
Differential Pressure Sensor Resolution	1 Pa		
Sensor Damping	0.5s to 8s		
Power	400W		
Voltage Options	240Vac 50/60 Hz 110Vac 50/60 Hz		
Unit Size	35w x 46d x 60h cm		
Unit Weight	20Kg		
Carry Case	45w x 45d x 55h cm - 10.5Kg		
Trolley	38w x 20d x 94h cm - 6.7Kg		
Maximum recommended SD Card	32 GB SDHC Class 1		
Bluetooth Version	Bluetooth 2		
Bluetooth Range	~5m (With clear line of sight)		



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