

The logo for Qualitek 6000, featuring a stylized green diamond shape with a white outline.

Qualitek 6000



The Qualitek 6000 is the complete solution for multi-channel differential pressure leak testing for a wide variety of components and systems in the appliance, medical, industrial and automotive markets.

Total Flexibility

A single master programmer unit can control a number of tester modules. The test modules function independently, irrespective of power or operational status of one another.

Powerful

The Qualitek 6000 can operate synchronously (testing similar components in parallel) or asynchronously (testing different components or testing one component with different tests).

Economic

The Qualitek 6000 master programmer unit and pneumatic tester modules can replace multiple stand-alone instruments and improve test performance without a need to connect all components before starting to test. A robust case suitable for bench or wall mounting and multi-level password protected menus make installation and setup simple.

Easy To Use

The Qualitek 6000 user-friendly menus and crisp graphical display make operation and result interpretation straightforward, greatly reducing operator error.

Full Integration

Due to the modular design, the Qualitek 6000 can be used as a small independent system or the unit can be integrated into a fully-automatic test station. Simple I/O for PLC interface is supplied as standard.

Non-Destructive

Like all Uson leak testers, the Qualitek 6000 performs fast, dry, repeatable and non-destructive tests.

Non-Subjective

Testing with the Qualitek 6000 is not operator subjective. All results are displayed at the test unit and at the master programmer unit and can be interrogated by the supervisor as required.

Leak Rate Conversion

Pressure decay readings can be converted and displayed in units of flow (i.e. cc/min, cc/sec) by accessing the calibration menu.

Due to a program of continuous development, specifications may be changed without notice.

Specifications

Model	Qualitek 6000
Description	Fully-automatic multi-channel modular leak test system

Qualitek 6000 Master Programmer Unit

Operating Modes	Differential pressure
No of Channels	(Testers) 1–4 as standard
User Interface	Full alphanumeric graphical LCD display with flexible membrane switch buttons Displays text and graphic information on test status and history

Communications	Serial port, RS232
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Weight	3 Kg (6.6 lbs) (net)
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Dimensions (h x w x d)	65 x 355 x 265 mm (2.5 x 14.0 x 10.5 in)
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Power Supply	24 V DC
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Qualitek 6000 Pneumatics (Tester)

Pressure Ranges	-950 mbar/-95 Kpa/-14 psig 70 mbar/7 Kpa/1 psig 500 mbar/50 Kpa/7 psig 4 bar/400 Kpa/60 psig 10 bar/1000 Kpa/145 psig 15 bar/1500 Kpa/218 psig
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Repeatability	3%
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Linearity	1% range
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No of Programs	16
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Measuring Ranges	0.01 to ± 1.99 mbar (1.5×10^{-4} to 0.03 psig) 0.1 to ± 19.9 mbar (1.5×10^{-3} to 0.30 psig)
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Flow Sensitivity	2×10^{-4} ml/sec (volume dependent)
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Pressure Regulator Supplies	Electronic or manual 24 V DC Clean dry air, 4.5–15 bar (70–230 psig) Particulate matter < 25 microns Dew point 17°C Oil mist < 0.1 mg/m ³
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Dimensions (h x w x d)	225 x 325 x 445 mm (8.8 x 12.8 x 17.5 in) Overall including regulator and filter
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Weight	16 Kg (35 lbs) (net)
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Options	I/O interface card Leak masters traceable to NIST External switching valves Autocouple kit Remote start/restart program Selection unit Additional tester units
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Manufacturing Standards	To ISO 9001:2000 Certified to CE requirements
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