SCITEQ | 2000 X-ACT series

function

SCITEQ 2000 X-ACT series

With the development of the X-ACT series, **SCITEQ** takes airless pressure testing to an even higher level with our latest elegant cabinet **design** and colour panel S40 controller. **SCITEQ** offers a high-tech small footprint solution to large numbers of test samples while keeping the benefits of modular construction. A further significant advantage is the **low energy consumption** of this system.

highlights

- high accuracy pressure control
- high level dynamic control
- online support via safe internet connection
- low energy consumption
- easily accessible service components
- unique design
- flexible and modular construction
- graphic overview of pressure stations

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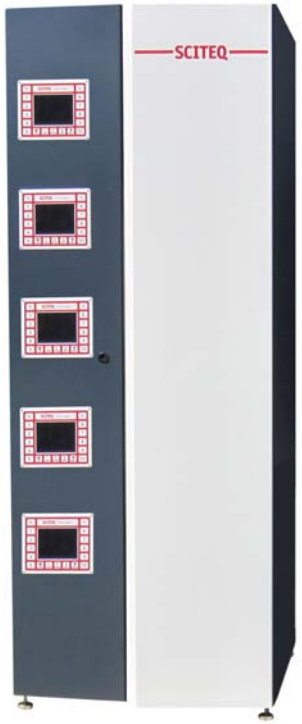
features

The **SCITEQ**-2000 X-ACT series is a modular airless pressure testing system. All modules are designed to fit into an sophisticated standard cabinet with a compact footprint. This unique approach allows a system to be easily expanded with more pressure stations according to customer needs, making it **future upgradeable**.

SCITEQ's intelligent **D**ynamic **P**ressure **C**ontrol **S**ystem ensures that test pressures are maintained with unparalleled **accuracy** no matter what size sample is connected to the system. With or without **PC-SCITEQ** software, the system offers the user an intuitive new colour panel. Static, burst and cyclic testing can all be accommodated

One of the many new features is the possibility of **online support** via safe internet connection. This means that upload of software updates, trouble shooting as well as remote control of PC SCITEQ / SCITEQ-2000 is an option.



SCITEQ-2000 with 50 independent pressure stations

We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

construction

The **PowerPack** pressure module uses a high pressure axial piston water hydraulic pump and a 4 litre pressure reservoir to ensure maximum capacity at all times.

The **SUB** pressure station modules incorporate specially designed high pressure valves for unbeaten independent pressure control of each pressure station.

The **BURST** pressure station modules incorporate specially designed high flow and pressure valves and special dynamic software control for linear pressure increase.

The **CYCLIC** modules use fast reacting high flow valve and pressure regulators to perform "saw tooth" pressure testing at 1 Hz.

The **BASE** module is an all-in-one pressure testing module with integrated pump and up to 5 independent pressure stations. This unit has been developed for those only needing a few pressure stations.

User-friendly and easy-to-operate 5,7 inch 320x240 pixel colour panel

PC-SCITEQ software station overview

associated | equipment

|essential equipment

- thermo tanks
- burst stations
- end closures
- hoses
- pc-sciteq software
- end closure mounting
- laboratory saw

SCITEQ-2000 X-ACT series modules:

Description	Technical specifications
SCITEQ-2000 PowerPack modules: Pressure source feed to all SCITEQ-2000 X-ACT series SUB modules. Various models available with or without output for optionally BURST modules. Built in high pressure pump and 10 micron inlet filter.	Max. 100 or 160 bar regulated pressure output Max. 200bar unregulated output (optional) Max. flow: 9 l/min.
SCITEQ-2000SUB modules: Provides 5 or 10 independently operating pressure stations up to max. 100 or 160bar. Semi-automatic individual pressure transmitter calibration through integrated main transmitter is optional. Built-in fast reacting valves for precise pressure control. Requires connection to a PowerPack module to function.	Max. 100 or 160 bar regulated pressure output Max. flow per station: 2 l/min. Max. recommended sample size: Ø800mm (ISO1167)
SCITEQ-2000 BURST modules: Provides one linear burst pressure station up to max. 200bar within 60-70 sec. Built-in fast reacting high flow and pressure valves for fast and precise pressure control. Requires connection to a PowerPack module with output for BURST module to function.	Max. 200bar regulated pressure output Max. flow: 9 l/min. Max. recommended sample size: Ø315mm (ASTM D1599)
SCITEQ-2000 CYCLIC modules: Provides a cyclic "saw tooth" pressure output between 5 to 10bar or 5 to 30bar. Test frequency up to 1Hz (60 cycles per minute). Built-in high pressure pump, 10 micron inlet filter and water tank for recirculation of water.	Cyclic pressure output between 5 to 10bar or 5 to 30bar Max. flow: 4 l/min. Max. recommended sample size: Ø110mm

Energy consumption

SCITEQ's DPCS system uses only approx. 1/3 of power compared to conventional systems.

SCITEQ is the only supplier of the DPCS system. Other systems on the market use pressure pumps that run constantly via a bypass/circulation valve, hence the power consumption will be equal to the motor size + the power consumption for the control unit.

As we supply pressure with the DPCS system to a high pressure reservoir the running time of the pump is reduced by more the 90%, thereby significantly reducing the power consumption.

Our S40 controller uses an electronic power transformer to generate 24 volt power to the solenoid. This electronic power transformer regulates the output according to the specific need.

SCITEQ-2000 X-ACT series cabinet:

capacity: 50 pressure stations (60 stations on request)

electrical supply: 3 phase 380-400Vac + N + PE, 16amps

drain: lead to gravity fed waste water

size CAB6: 800x800x2110mm (length x width x height)

SCITEQ-2000 X-ACT series general performance:

control accuracy: better than +/- 1% of set pressure

resolution: 0,01bar

transmitter accuracy: class 0,3% of full range

analogue conversion: 12 bit

transmitter ranges: 6, 10, 16, 25, 40, 60, 100, 160, and 250bar

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