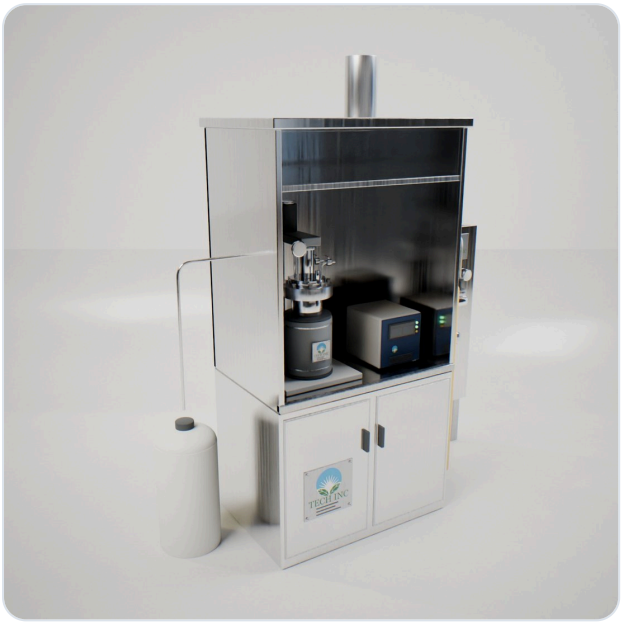
PRODUCT DATASHEET

Sour-Gas Autoclave for H_2S Service

5-litre Alloy C-276 autoclave with H_2S handling





DETAIL – VESSEL HEAD

OVERVIEW

The Tech Inc. Sour-Gas Autoclave for H_2S Service (model TI-SCA) runs high-pressure, high-temperature tests in hydrogen sulphide (H_2S) service inside a sealed 5-litre pressure vessel. It comes with an H_2S handling package that feeds, holds, purges and vents the toxic gas under control. Materials and corrosion laboratories use it to expose metal coupons, stressed specimens, elastomers and coatings to sour gas, brine and hydrocarbon.

MODELS AND CONFIGURATIONS

- **TI-SCA** – 5-litre sour-gas autoclave with H_2S handling.
- **Static or stirred** – static exposure, or magnetically coupled stirring to reproduce flowing conditions.
- **Gas handling** – H_2S, H_2S blends, CO_2 and nitrogen feeds arranged to the test method.

TYPICAL DESIGN DATA

Vessel volume	5 litres
Design pressure	Up to about 200 bar (3,000 psi), or to client specification
Design temperature	Up to 350 °C, or to client specification
Wetted materials	Alloy C-276
H_2S handling	Gas panel, nitrogen purge, vent scrubbing and gas detection, to client specification
Pressure design	Designed to ASME VIII or client specification
Controls	Temperature and pressure control, with alarms, interlocks and data logging

APPLICATIONS

Sour corrosion testing, cracking resistance of metals, elastomer and seal qualification, coating and inhibitor testing, and materials selection for oil and gas service.

KEY ADVANTAGES

- **Controlled H_2S handling** – feed, purge, vent scrubbing and detection supplied as one package
- **Corrosion-proof vessel** – Alloy C-276 resists sour gas and acid brine
- **Room for specimens** – the 5-litre volume takes racks of coupons and stressed specimens in one test
- **Interlocked safety** – the gas supply shuts off on alarm, and the vessel carries a relief valve and rupture disc
- **Traceable results** – pressure and temperature logged for every exposure

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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