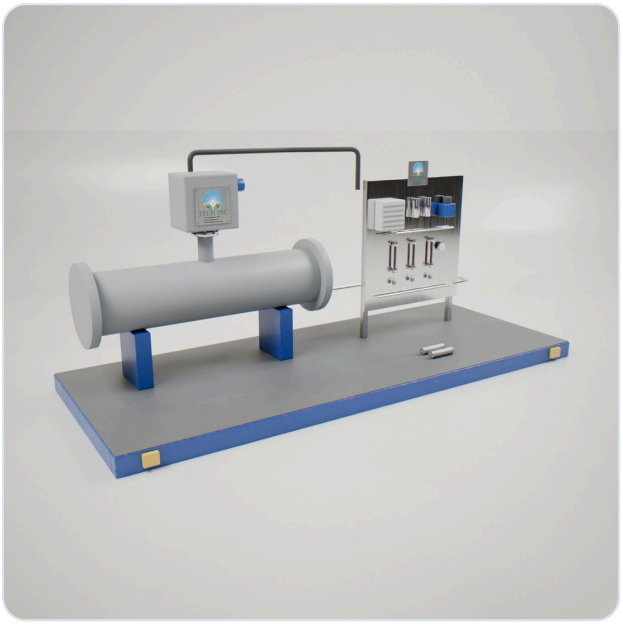
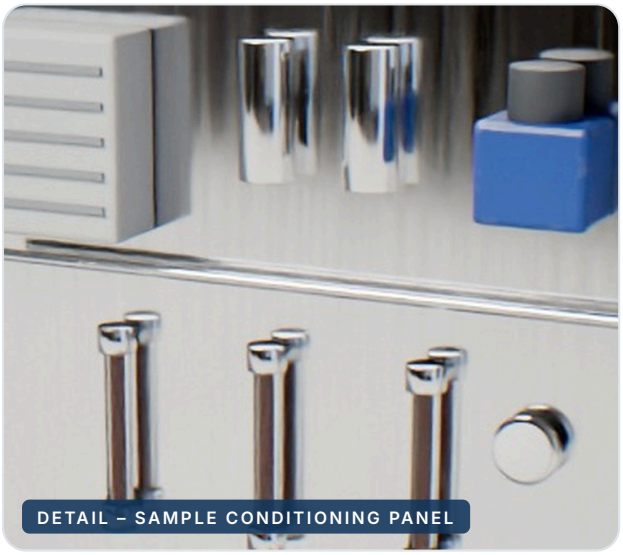
PRODUCT DATASHEET

Syngas Sampling and Conditioning Skid

Heated Alloy C-276 sample skid for dirty, sour syngas





DETAIL – SAMPLE CONDITIONING PANEL

OVERVIEW

The Tech Inc. Syngas Sampling and Conditioning Skid takes a representative sample of hot, dusty, tarry and sour syngas, the hydrogen and carbon monoxide gas made from coal, and conditions it for the plant's process analysers. A heated probe keeps tar and water in the vapour phase up to the filter, all wetted parts are Alloy C-276, and unused sample returns to the process in a closed loop.

MODELS AND CONFIGURATIONS

- **Syngas probe and sample-conditioning skid** – one per analyser point, with Alloy C-276 wetted parts and closed-loop return.
- **Spare probe filters and sample modules** – replacement parts for dirty service.
- **Raw and clean syngas points** – conditioning matched to the dust and tar load at each point.

TYPICAL DESIGN DATA

Sample	Raw or cleaned syngas containing hydrogen, carbon monoxide, CO_2, H_2S, dust and tar
Wetted materials	Alloy C-276
Probe	Heated, with filter and blowback, and temperature matched to process conditions
Sample return	Closed loop to the process
Process conditions	To client specification
Analyser interface	To the analyser maker's sample requirements
Hazardous area	Electrical equipment selected for the hazardous-area classification, or to client specification

APPLICATIONS

Coal and lignite gasification, syngas to methanol, ammonia and fertiliser, hydrogen production, synthetic natural gas, and gasifier outlet and syngas cleaning analysers.

KEY ADVANTAGES

- **Built for dirty gas** – heated probe and staged filtration for dust and tar
- **Corrosion resistance** – Alloy C-276 for wet, sour syngas
- **Closed-loop return** – no venting of toxic sample to atmosphere
- **Quick maintenance** – spare probe filters and plug-in sample modules shorten downtime
- **Representative sample** – conditioning keeps the composition intact for the analyser

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

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