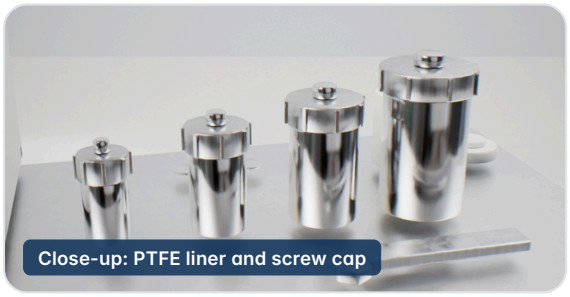
PRODUCT DATASHEET

# Hydrothermal Autoclave and PTFE-Lined Acid Digestion Vessel

PTFE-lined stainless autoclaves for hydrothermal synthesis and sample digestion

Product page





Close-up: PTFE liner and screw cap

## OVERVIEW

The Tech Inc. Hydrothermal Autoclave and PTFE-Lined Acid Digestion Vessel is the simple sealed vessel that materials and analytical laboratories use every day: a PTFE liner inside a stainless-steel body with a screw cap. Placed in an oven, it holds water or acid above its boiling point, so zeolites, metal oxides and nanomaterials can be synthesised hydrothermally and samples can be digested in acid before ICP or AAS analysis.

## TYPICAL DESIGN DATA

| | |
|---|---|
| **Volume** | About 25 to 500 mL |
| **Temperature** | To about 220 °C (PTFE) or 260 °C (PPL) |
| **Pressure** | To about 30 bar |
| **Codes and standards** | Designed with a safety factor at the rated temperature and pressure |
| **Body** | 304 or 316 stainless steel |
| **Liner** | PTFE or PPL, replaceable |
| **Safety** | Fill to the stated maximum; rupture disc option |

## MODELS AND CAPACITIES

- **TI-HAV-25** – about 25 mL
- **TI-HAV-50** – about 50 mL
- **TI-HAV-100** – about 100 mL
- **TI-HAV-200** – about 200 mL
- **TI-HAV-500** – about 500 mL

Indicative liner volume.

## ORDERING CODE

Example **TI-HAV-100-T-R**: **100** liner volume, mL; **T** liner: T PTFE, P PPL; **R** options: R rupture disc, N none.

## SCOPE OF SUPPLY

**Included:** factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** spare liners; rupture-disc caps; heating block for several vessels; sets of five or ten.

## KEY ADVANTAGES

- **Inert** – PTFE or PPL liners
- **Low cost** – replaceable liners
- **Robust** – stainless bodies
- **Safe** – rupture-disc option

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

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