PRODUCT DATASHEET

Pressure-Leach Autoclave and Alloy Leach Reactor

Stirred pressure-leach autoclaves to about 250 °C for spent catalysts, concentrates and residues

Product page





Close-up: autoclave head, agitator and gas addition

OVERVIEW

The Tech Inc. Pressure-Leach Autoclave and Alloy Leach Reactor leaches metals from spent catalysts, concentrates and residues under pressure, where atmospheric tanks are too slow or too weak. A stirred autoclave in titanium, C-276 or lined steel holds the slurry at temperature with oxygen or acid; jackets or coils control temperature, and the discharge is flashed and cooled before filtration.

TYPICAL DESIGN DATA

Temperature	To about 250 °C
Pressure	To about 50 bar
Materials	Titanium Gr 2 or 12, C-276, or lined carbon steel
Codes and standards	Pressure vessels to ASME VIII Div 1; electrical to IEC 60204-1
Agitation	Magnetic drive (lab) or mechanical seal (pilot)
Gas addition	Oxygen or air with mass-flow control
Safety	Relief, rupture disc, interlocks and remote operation

MODELS AND CAPACITIES

- **TI-PLA-5** – about 5 L
- **TI-PLA-200** – about 200 L
- **TI-PLA-50** – about 50 L
- **TI-PLA-HC** – horizontal multi-compartment pilot

Indicative working volume.

ORDERING CODE

Example **TI-PLA-50-T**: **50** working volume, L; **T** material: T titanium, C C-276, L lined.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: continuous feed and letdown; online sampling; scrubber; remote operation room panel.

KEY ADVANTAGES

- **Right alloy** – titanium, C-276 or lined
- **Gas control** – oxygen by mass flow
- **Pilot to production** – data that scales
- **Safe** – relief, interlocks and remote operation

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