

# Zippertex, The Solid/Liquid Extractor

## Your fields of interest

- Natural Compounds
- Environmental Analysis
- Trace Level Determination
- Cosmetics, Nutraceuticals

## We are happy to present **ZIPPERTEX**

the most efficient and convenient  
solid/liquid extraction device

Whatever  
the nature and quantity of you solid matter,  
your solvent,  
your operating temperature and pressure,  
your target compounds,

**ZIPPERTEX is all you need...**



Image: Sébastien Godéroy

## Save time and money

-Zippertex claim the lowest proportion between solid matter and the required solvent volume. With zippertex you save 5 to 10 time solvent compared to classical extraction techniques. The extraction module is exclusively pneumatic, operating with compressed gas. This excludes any ignition or blast risks.

Users of laboratory pressure-based extractors are limited by the low cells capacity (100mL max.). You will obtain higher efficiency with Zippertex ES- and EC-HPHT, although providing 1 to 10 L cell capacity and engaging 0.3 to 5 Kg of solid matter. For your specific needs, we can provide you higher capacities.

Zippertex is very easy to use, without any particular care or spare parts. One viton seal ring ensures complete tightness.

- your solid matter (Plants, soils, tissues, microorganisms, metals, organs...)
- your solvent (organic, aqueous, acid, alkaline, mixtures...)
- your operating temperature (-10 to 100° C), pressure ( $P_{atm}$  to 120 bars or higher)
- the solid matter quantity (from grams to Kilograms or higher)
- the expected compounds you try to extract (Natural compounds, contaminants, additives, fat, proteins...)

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## Extraction rules

- Zippertex operates through two extraction rules
- High pressure high temperature static extraction HPHT-SE
  - High pressure high temperature continuous extraction HPHT-CE
- operating temperature (-10 to 100° C)  
operating pressure (1 to 120 bars or higher)

Zippertex combines both extraction and filtration steps, offering limpid highly concentrated extracts, ready for chemical and biological investigations. The combination between static pressure and heating, favor the access of the solvent into the heart of the solid matter, and increase the solubilization of the target compounds. Zippertex offers the maximum qualitative and quantitative recovery, with minimum operations and handling, and minimum solvent and time.

## Easy handling

### reduced size for laboratory use

**Zippertex is 1922 mm height, 1600 mm width and 600 mm depth**

Zippertex offers optimal ergonomoy to facilitate the handling of all steps by one operator.

- Horizontal cell translations by pushing the frame on a rail (A)
- Pull-up (red button) and Pull-down (green button) of the extraction cell under the control of a pneumatic jack (B)
- Cell tip up for cleaning operations through cell included handles (C)

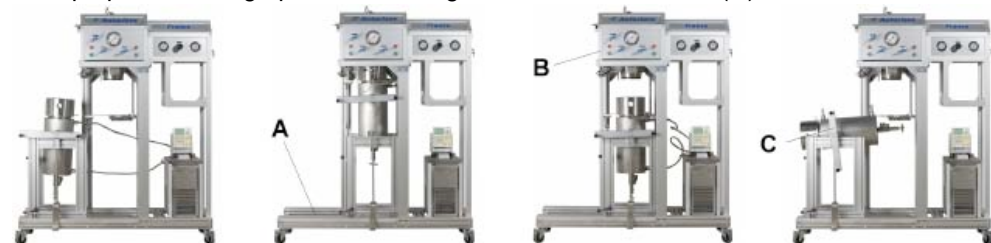


Image: Sébastien Godéroy

## Operating conditions

- The cell is in the filling-up position
- Install the grills and the paper filter
- 1 • Fill the extraction cell with the solid matter and the appropriate solvent
- Place the cell under the cover
- Pull up the cell by pressing the button that control the pneumatic jack
- 2 • Adjust pressure and temperature on appropriate screens
- Start the extraction once the desired values reached 15-30 min.
- Once the extraction time over, recover your extract filtered
- 3 • Pull down the extraction cell and move it to the filling-up position
- 4 • Lean the cell for recovery and cleaning operations
- 5 • Restart a new extraction

Total cycle 45 to 60 min.

