

# SFE LAB 500ML

SUPERCRITICAL FLUID EXTRACTION SYSTEM FOR LABORATORY SCALE

• 100 ml

• 500 ml

2⁺

**♦** 1⁺

# **Extraction**

Loading capacity Extractor volume Max pressure Max temperature 500 ml net 660 ml 700 / 1000 bar 100 °C

# Separation

Capacity 300 ml
Max pressure 200 bar
Max temperature 100 °C

Independent pressure and temperature control allows extract fractionation

#### **SPECIFICATIONS**

#### **Technical information**

CO<sub>2</sub> flow: **100 gr/min at 700 bar 70 gr/min at 1000 bar** 

Co-solvent flow: 25 ml/min

### CO₂ recycling

High recycling efficiency thanks to our innovations.
Estimated 10 % CO<sub>2</sub> loss during collection.

### **Dimensions**

L1500 x W 850 x H1500 mm

#### Weight

Between **350 kg & 450 kg\*** 

\*depending on options selected

# Co-solvent pump

- > Boost and increase your CO<sub>2</sub> extraction by injecting
- a 2<sup>nd</sup> solvent into the CO<sub>2</sub> stream while the extraction is running
- > Allows an easy cleaning of the machine
- > Included in the standard equipment



#### Innovative CO, piston pump

- > Flowrate is automatically controlled with a frequency drive and an integrated flow controller
- > Use of a coriolis flowmeter

# Technical data / installation requirements

**Process fluid** Liquid CO<sub>2</sub> deep pipe cylinder stored at room temperature

1/8" OD pipe

Power Equipment: single-phase / 230 V / 50 Hz / 25 A

Chiller: 1Ph + N + G/230 V/50 Hz/11 A 2600 W

Cooling source A water chiller is already connected to the skid and supplied into the equipment

Air pressure @7,5 bar - oil free (not supplied)

### State-of-the-art design and technology

All our systems are CE marked for Europe according to the PED/2014/68/UE norm. Our systems can be adapted to international standards: ASME, UKCA...

In addition to our standard version, we offer 2 levels of certification : GMP ready **or** Full GMP 21 CFR Part 11.







#### **Examples of options available:**

- > Additional basket(s) with adaptable capacity
- > Additional separator(s) (heated or cold trap) or sapphire
- > Stirrer
- > SAS, RESS, PGSS configuration

- > Fractionation column skid
- > Automatic BPR
- > Ultrasound probe
- > Basket rotation...

# Innovation at the core of your process



#### Plug & Play

Easy to install, start up and use User friendly system



#### Modular, Mix & Match system

Expandable capacities (possibility to add extractors) and flexible skids



### Compact

Minimum footprint Easy access to all components



# **PLC** control

User friendly control panel, multiple connections for remote control No computer obsolescence







### Service & support

Reliable service and expert support Installation, commissioning, training, maintenance, scale up



# **Premium equipment**

High standards Safe technology, secured parameters and data recording

Contact the SFE Process team for a custom-made solution :

sales@sfe-process.com

