

SFE LAB 1

SUPERCRITICAL FLUID EXTRACTION SYSTEM FOR LABORATORY SCALE

• 100 ml

\$ 500 ml

● 1*

Extraction

Loading capacity
Extractor volume
Max pressure
Max temperature

1 L net
1,6 L
700 / 1000 bar

Separation

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

Independent pressure and temperature control allows extract fractionation

SPECIFICATIONS

Technical information

CO₂ 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 % CO₂ 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 CO₂ extraction by injecting
- a 2nd solvent into the CO₂ 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 CO₂ deep pipe cylinder stored at room temperature

1/8" OD pipe

Power Equipment: single-phase / 230 V / 50 Hz / 20 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



Compact

Minimum footprint
Easy access to all components



Modular, Mix & Match system

Expandable capacities (possibility to add extractors) and flexible skids



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

