

SFE LAB 2⁺

SUPERCRITICAL FLUID EXTRACTION SYSTEM • 1 FOR LABORATORY SCALE

• 100 ml • 500 ml • 1*

• 2*



Loading capacity Extractor volume Max pressure Max temperature 2 L net 2,7 L 700 / 1000 bar 100 °C



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

Independent pressure and temperature control allows extract fractionation

SPECIFICATIONS

Technical information

CO₂ flow :

Co-solvent flow :

100 gr/min at 700 bar 70 gr/min at 1000 bar 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 2^{nd} solvent into the CO_2 stream while the extraction is running
- > Allows an easy cleaning of the machine
- > Included in the standard equipment



Innovative CO₂ 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 ₂ deep pipe cylinder stored at room temperature
	1/8" OD pipe
Power	Equipment : single-phase / 230 V / 50 Hz / 32 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

> Additional basket(s) with adaptable capacity

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.



CE

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

Innovation at the core of your process

> Additional separator(s) (heated or cold trap) or sapphire



> Stirrer

Plug & Play Fasy to install, start up

Examples of options available :

> SAS, RESS, PGSS configuration

Easy to install, start up and use User friendly system



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



Modular, Mix & Match system

Expandable capacities (possibility to add extractors) and flexible skids



SIEMENS



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

