

## SUPERCRITICAL FLUID EXTRACTION SYSTEM FOR PRODUCTION SCALE

+ We always talk about **effective loading capacity**,  
not about the volume of extractor.

- 2 x 5+
- 2 x 10+
- 2 x 25+
- 2 x 50+
- 2 x 100+

### Extraction

Loading capacity	<b>2 x 100 L net</b>
Extractor volume	<b>2 x 118,5 L</b>
Max pressure	<b>350 bar</b>
Max temperature	<b>100 °C</b>

### Separation

Capacity	<b>1 x 25 L heated</b> <b>1 x 10 L heated</b> <b>1 x 10 L cold trap</b>
Max pressure	<b>120 bar</b>
Max temperature	<b>100 °C</b>

Independent pressure and temperature control  
allows extract fractionation

## SPECIFICATIONS

### Technical information

CO <sub>2</sub> flow :	<b>500 kg/h</b>
Co-solvent flow :	<b>50 L/h</b>

### CO<sub>2</sub> recycling

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

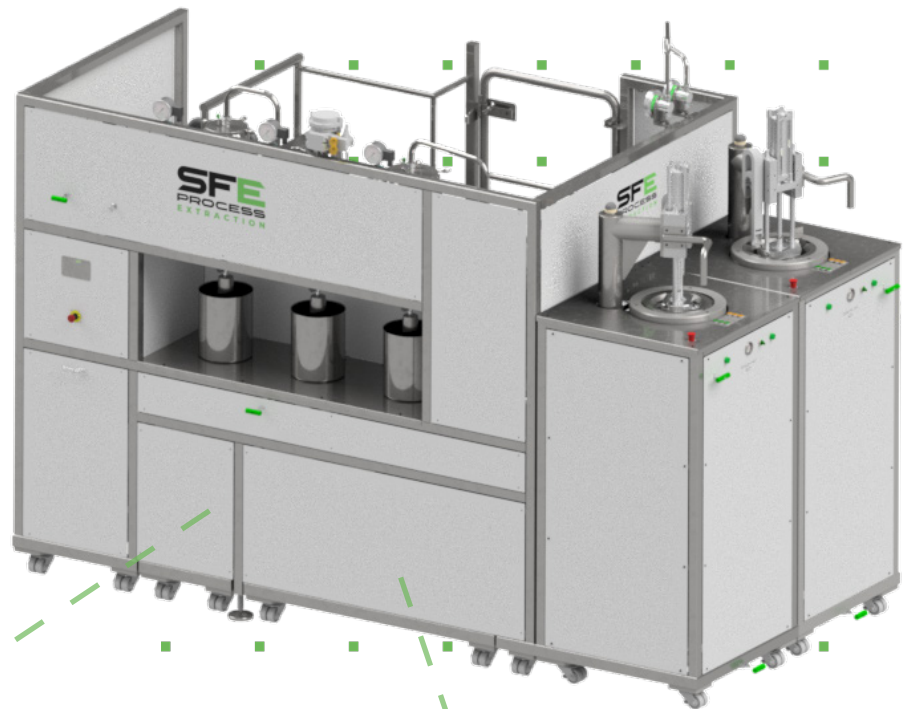
### Dimensions

L 4 150 x W 1 930 x H 2 830 mm

### Weight

5 980 kg\*

\*may vary according to 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<sub>2</sub> 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  
3/4" OD pipe
- Power** Equipment : 3-Ph + N + G / 400 V / 50 Hz / 200 A  
Chiller : 3-Ph + N + G / 400 V / 42 A Motor circuit-breaker electrical protection recommended
- Vent line** 1" OD pipe
- 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...

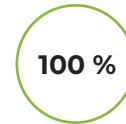
In addition to our standard version, we offer 2 levels of certification :  
GMP ready **or** Full GMP 21 CFR Part 11.



## Examples of performance achieved by our customers using a SFE Prod 2x100+ :

With our SFE Prod 2x100+	Cannabis extraction Bulk density : 0,3	Vanilla extraction Bulk density : 0,05
Feedstock processed per extraction/year	81 Tonnes	24 Tonnes
Duration of operation	300 days	300 days
Concentration of your plant	15 %	25 to 26 %
Quantity of oil/year	Up to 12 150 kg	Up to 6 000 kg

*There are theoretical figures that will vary according to the quality of your raw material.*



100 % of your valuable compounds is extracted

# 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



## 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](mailto:sales@sfe-process.com)

**SFE**  
PROCESS  
EXTRACTION