

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	2 x 50 L net
Extractor volume	2 x 61,5 L
Max pressure	350 bar
Max temperature	100 °C

Separation

Capacity	1 x 15 L heated 1 x 8 L heated 1 x 10 L cold trap
Max pressure	170 bar
Max temperature	100 °C

Independent pressure and temperature control
allows extract fractionation

SPECIFICATIONS

Technical information

CO ₂ flow :	250 kg/h
Co-solvent flow :	25 L/h

CO₂ recycling

High recycling efficiency thanks to our innovations.
Estimated 10 % CO₂ loss during collection.

Dimensions

L 2 840 x W 1 800 x H 2 650 mm

Weight

4 620 kg*

*may vary according to 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 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 3/4" OD pipe
Power	Equipment : 3-Ph + N + G / 400 V / 50 Hz / 63 A Chiller : 3-Ph + N + G / 400 V / 22 A 10600 W Motor circuit-breaker electrical protection recommended Overhead crane : 1-Ph + N + G / 230 V / 10 A
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...

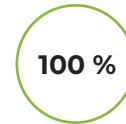
In addition to our standard version, we offer 2 levels of certification :
GMP ready **or** Full GMP 21 CFR Part 11.



Examples of performance achieved by our customers using a SFE Prod 2x50+ :

With our SFE Prod 2x50+	Cannabis extraction Bulk density : 0,3	Vanilla extraction Bulk density : 0,05
Feedstock processed per extraction/year	40 Tonnes	12 Tonnes
Duration of operation	300 days	300 days
Concentration of your plant	15 %	25 to 26 %
Quantity of oil/year	Up to 6 075 kg	Up to 3 000 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

SFE
PROCESS
EXTRACTION