

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 5 L net**
Extractor volume **2 x 6,6 L**
Max pressure **400 bar**
Max temperature **100 °C**

Separation

Capacity **2 x 1 L heated**
1 x 1 L cold trap
Max pressure **200 bar**
Max temperature **100 °C**

Independent pressure and temperature control
allows extract fractionation

SPECIFICATIONS

Technical information

CO₂ flow : **30 kg/h**
Co-solvent flow : **30 ml/min**

CO₂ recycling

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

Dimensions

L 1 820 x W 1 060 x H 1 850 mm

Weight

930 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 CO₂ deep pipe cylinder stored at room temperature
1/4" OD pipe
- Power** Equipment : 3-Ph + N + G / 400 V / 50 Hz / 32 A
Chiller : 3-Ph + N + G / 400 V / 50 Hz / 5 A 2200 W Motor circuit-breaker electrical protection recommended
- Vent line** 1/2" 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...

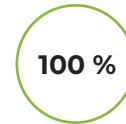
In addition to our standard version, we offer 2 levels of certification :
GMP ready **or** Full GMP 21 CFR Part 11.



Examples of performance achieved by our customers using a SFE Prod 2x5+ :

With our SFE Prod 2x5+	Cannabis extraction Bulk density : 0,3	Vanilla extraction Bulk density : 0,05
Feedstock processed per extraction/year	4 050 kg	1 200 kg
Duration of operation	300 days	300 days
Concentration of your plant	15 %	25 to 26 %
Quantity of oil/year	Up to 607 kg	Up to 300 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