



# SFE PROD 2x100<sup>+</sup>

SUPERCritical FLUID EXTRACTION SYSTEM  
FOR PRODUCTION SCALE

## STANDARD RANGE

## SFE PROD 2x100<sup>+</sup>

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

2x50<sup>+</sup>

2x25<sup>+</sup>

2x10<sup>+</sup>

2x5<sup>+</sup>

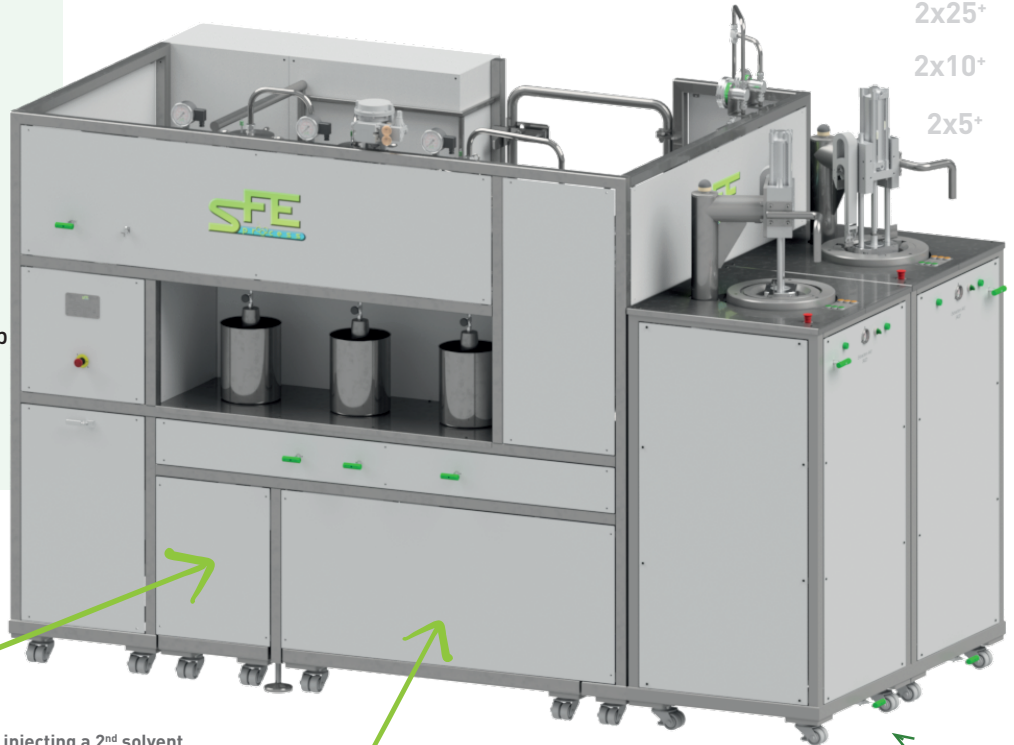
### Extraction

Loading capacity	2 x 100L net
Extractor volume	2 x 118,5 L
CO <sub>2</sub> flowrate	500 kg/h
Max pressure	350 bar
Max temperature	100°C

### Separation

Capacity	1 x 15L heated 1 x 10L heated 1 x 10L cold trap
Max pressure	120 bar
Max temperature	100°C

➤ Independent pressure and temperature control allows extract fractionation



### 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> membrane pump

- Flowrate is automatically controlled with a frequency drive and an integrated flow controller
- Use of a coriolis flowmeter



### Plug & Play

Easy to install, start up and use  
User friendly system



### 100% automated process

Fully automated extract collection, valves, vessel switching, data recording...  
Preset recipes  
Operator free: all you need to do is press the start button !



### PLC control

User friendly control panel, multiple connections for remote control  
No computer obsolescence



### Continuous production

No time loss: possibility to load another basket while extraction is going on



### Compact

Minimum footprint  
Easy access to all components



### Modular, Mix & Match system

Expandable capacities (possibility to add extractors) and flexible skids  
Xtramile optimisation (contact us for customised process optimisation)



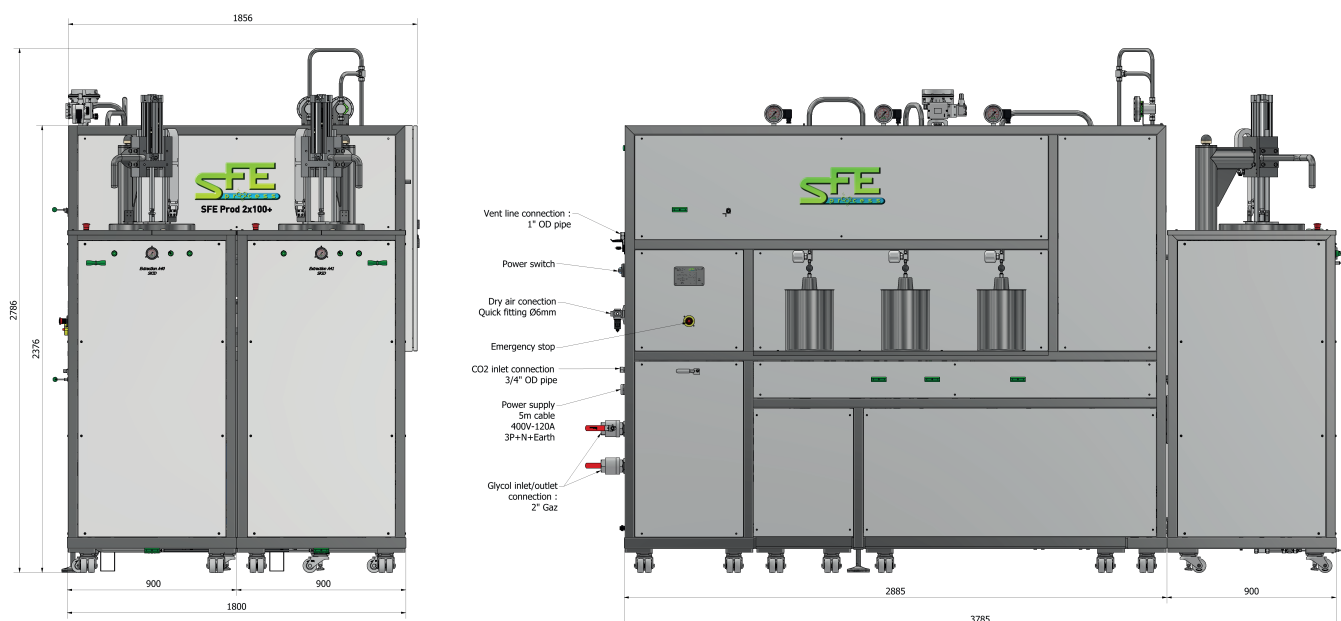
### Service & support

Reliable service and expert support  
Installation, commissioning, training, maintenance, scale up



### Premium equipment

High standards  
Safe technology, secured parameters and data recording



## Technical data / installation requirements

<b>Process fluid</b>	Liquid CO <sub>2</sub> deep pipe cylinder stored at room temperature 3/4" OD pipe
<b>Power</b>	Equipment: 3-phase / 400V / 50Hz / 200A Chiller: 3-phase / 400V / 32A circuit-breaker / 179A starting current / 200A electrical protection recommended Overhead crane: 3-phase / 380V / 32A
<b>Tank</b>	150L tank installed inside the equipment (not shown on drawing)
<b>Vent line</b>	1" OD pipe
<b>Cooling source</b>	A water chiller, supplied by SFE Process must also be connected to the skid with two 2" tubes. The chiller can be placed next to the system, outside or in a adjacent ventilated room.
<b>Air pressure</b>	Ø7,5 bar - oil free (not supplied)
<b>Dimensions</b>	<b>Complete solution:</b> L 3 785 x W 1 800 x H 2 786 mm <b>Equipment:</b> L 3 785 x W 1 800 x H 2 786 mm   <b>Chiller:</b> L 1 520 x W 1 325 x H 1 525 mm
<b>Weight</b>	Equipment: 6 810 kg   Chiller: 500 kg



### 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, CRN...



4 versions available: • Standard • GMP ready • 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 (24h/day)	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

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

100%

of your valuable  
compounds is extracted

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Please contact our experts  
for a custom-made  
solution !



Leading designer of innovative  
supercritical CO<sub>2</sub> solutions