



# SFE PROD 2x25+

## SUPERCritical FLUID EXTRACTION SYSTEM FOR PRODUCTION SCALE

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

2x100+  
2x50+

### STANDARD RANGE

### SFE PROD 2x25+

2x10+  
2x5+

#### Extraction

**Loading capacity** 2 x 25L net  
**Extractor volume** 2 x 30,5L  
**CO<sub>2</sub> flowrate** 125 kg/h  
**Max pressure** 400 bar  
**Max temperature** 100°C

#### Separation

**Capacity** 2 x 5L heated  
1 x 3L cold trap  
**Max pressure** 200 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> piston 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)



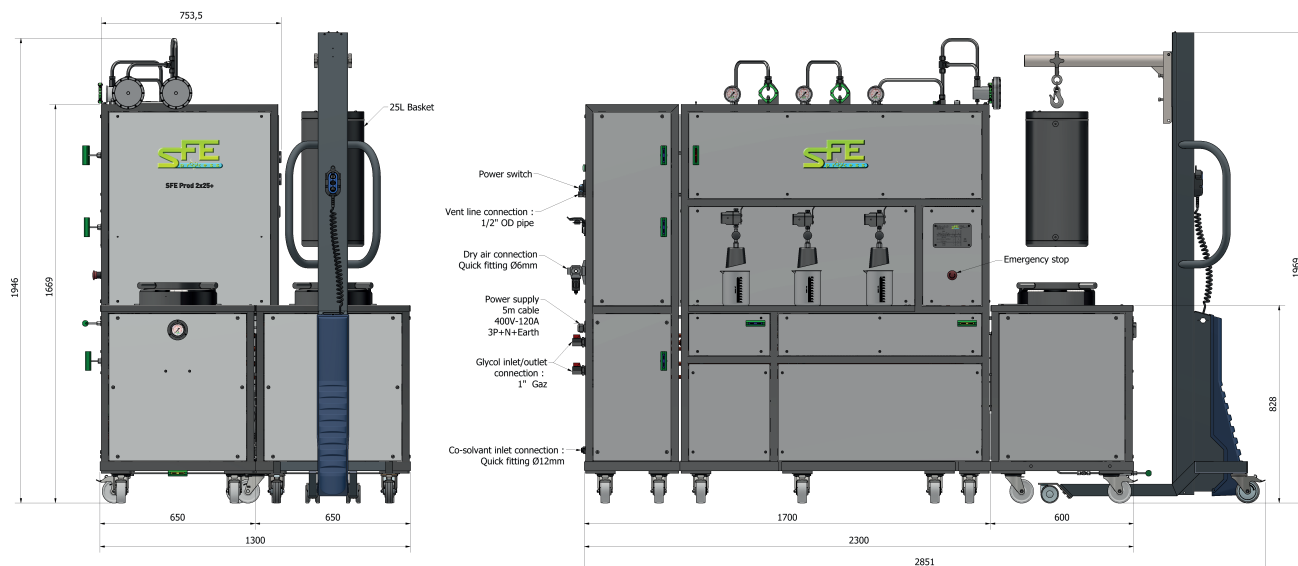
#### Service & support

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 1/4" OD pipe
<b>Power</b>	Equipment: 3-phase / 400V / 50Hz / 60A Chiller: 3-phase / 400V / 16A circuit-breaker / 53A starting current / 63A electrical protection recommended Overhead crane: single-phase / 230V / 32A directly plugged into and powered by the equipment
<b>Tank</b>	25L tank installed inside the equipment (not shown on drawing)
<b>Vent line</b>	1/2" OD pipe
<b>Cooling source</b>	A water chiller, supplied by SFE Process must also be connected to the skid with two 1" tubes. The chiller can be placed next to the system, outside or in a adjacent ventilated room.
<b>Air pressure</b>	@7,5 bar - oil free (not supplied)
<b>Dimensions</b>	<b>Complete solution:</b> L 2 851 x W 1 300 x H 1 969 mm <b>Equipment:</b> L 2 300 x W 1 300 x H 1 946 mm   <b>Chiller:</b> L 760 x W 760 x H 1 335 mm
<b>Weight</b>	Equipment: 1 850 kg   Chiller: 160 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 2x25+

With our SFE Prod 2x25+	Cannabis extraction Bulk density: 0,3	Vanilla extraction Bulk density: 0,05
Feedstock processed per extraction/year	20 Tonnes	6 Tonnes
Duration of operation (24h/day)	300 days	300 days
Concentration of your plant	15%	25 to 26%
Quantity of oil / year	up to 3 000 kg	up to 1 500 kg

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



of your valuable compounds is extracted

Assia KONE | International Sales Developer  
akone@sfe-process.com | +33 7 49 13 40 66

Piotr KĘSICKI | International Sales Manager  
pkesicki@sfe-process.com | +33 6 62 79 63 76

Please contact our experts  
for a custom-made  
solution !



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