



SFE PROD 2x5⁺

SUPERCritical FLUID EXTRACTION SYSTEM FOR PRODUCTION SCALE

STANDARD RANGE

SFE PROD 2x5⁺

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

- 2x10⁺
- 2x20⁺
- 2x25⁺
- 2x50⁺
- 2x100⁺



Extraction

- Loading capacity 2 x 5L net
- Extractor volume 2 x 6,6L
- CO₂ flowrate 30 kg/h
- Max pressure 400 bar
- Max temperature 100°C

Separation

- Capacity 2 x 1L heated
1 x 1L 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 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



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)



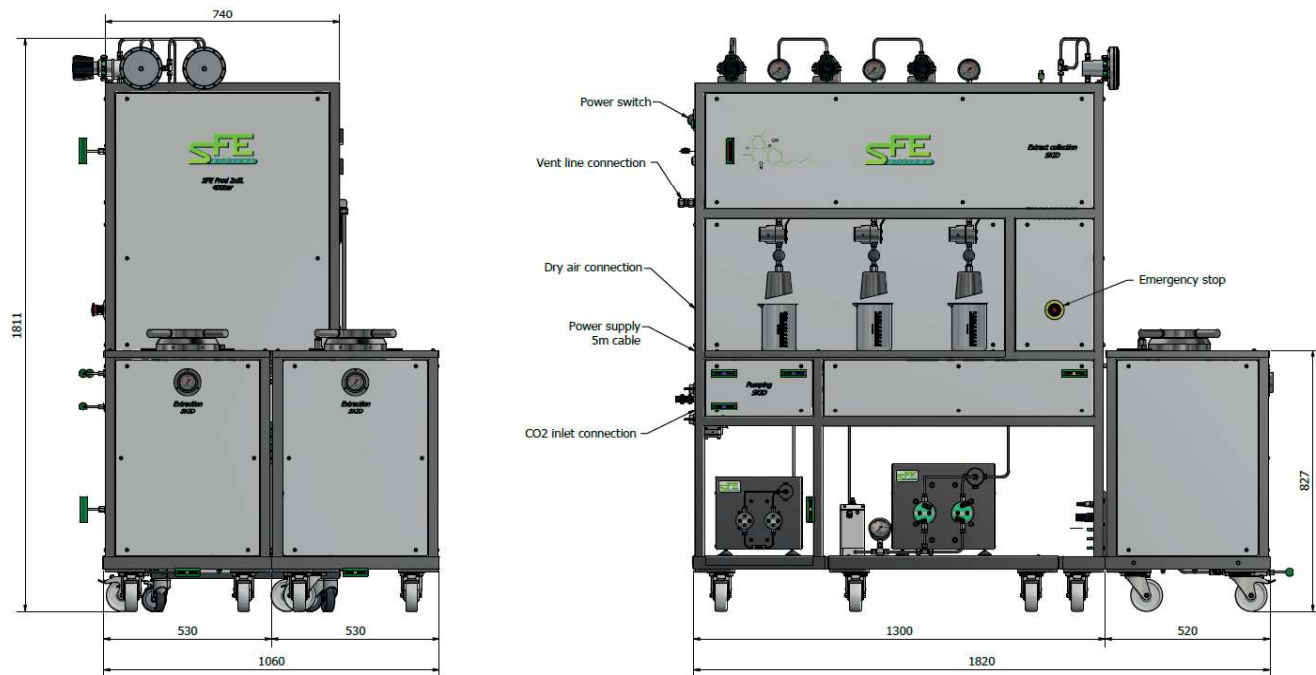
Service & support

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

- Process fluid** Liquid CO₂ deep pipe cylinder stored at room temperature
1/4" OD pipe
- Power** Equipment: single-phase / 230V / 50Hz / 32A
Chiller: single-phase / 230V / 32A directly plugged into and powered by the equipment
- Vent line** 1/2" OD pipe
- Cooling source** A water chiller, supplied by SFE Process must also be connected to the skid with two 3/4" tubes. The chiller can be placed next to the system, outside or in a adjacent ventilated room.
- Air pressure** @7,5 bar - oil free (not supplied)
- Dimensions** Equipment: L 1 820 x W 1 060 x H 1 811 mm | Chiller: L 445 x W 575 x H 640 mm
- Weight** Equipment: 850 kg | Chiller: 80 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 2x5+

With our SFE Prod 2x5+	Cannabis extraction Bulk density: 0,3	Vanilla extraction Bulk density: 0,05
Feedstock processed per extraction	2 x 1,5 kg	2 x 0,25 kg
Duration of a full extraction	4 hours	1,5 hours
Feedstock processed over 24h	up to 18 kg	up to 8 kg
Feedstock processed over a year*	up to 4 320 kg	up to 1 920 kg



of your valuable compounds is extracted

*Calculated on a 24h/day, 240 days/year operation basis.



CDB concentration of your plant
5% → 216 kg
10% → 432 kg
15% → 648 kg



Quantity of oil / year
1 phase ~ 6 to 7% → 115 to 135 kg
Multiphase ~25 to 26% → 480 to 500 kg
Complete vanilla oil

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

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Please contact our experts
for a custom-made
solution !



Leading designer of innovative
supercritical CO₂ solutions