



SFE PROD 2x50+

SUPERCritical FLUID EXTRACTION SYSTEM FOR PRODUCTION SCALE

2x100+

STANDARD RANGE

SFE PROD 2x50+

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

2x25+

2x10+

2x5+

Extraction

- Loading capacity 2 x 50L net
- Extractor volume 2 x 61,5 L
- CO₂ flowrate 100 kg/h
- Max pressure 350 bar
- Max temperature 100°C

Separation

- Capacity 2 x 8L heated
1 x 5L 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

CO₂ 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)



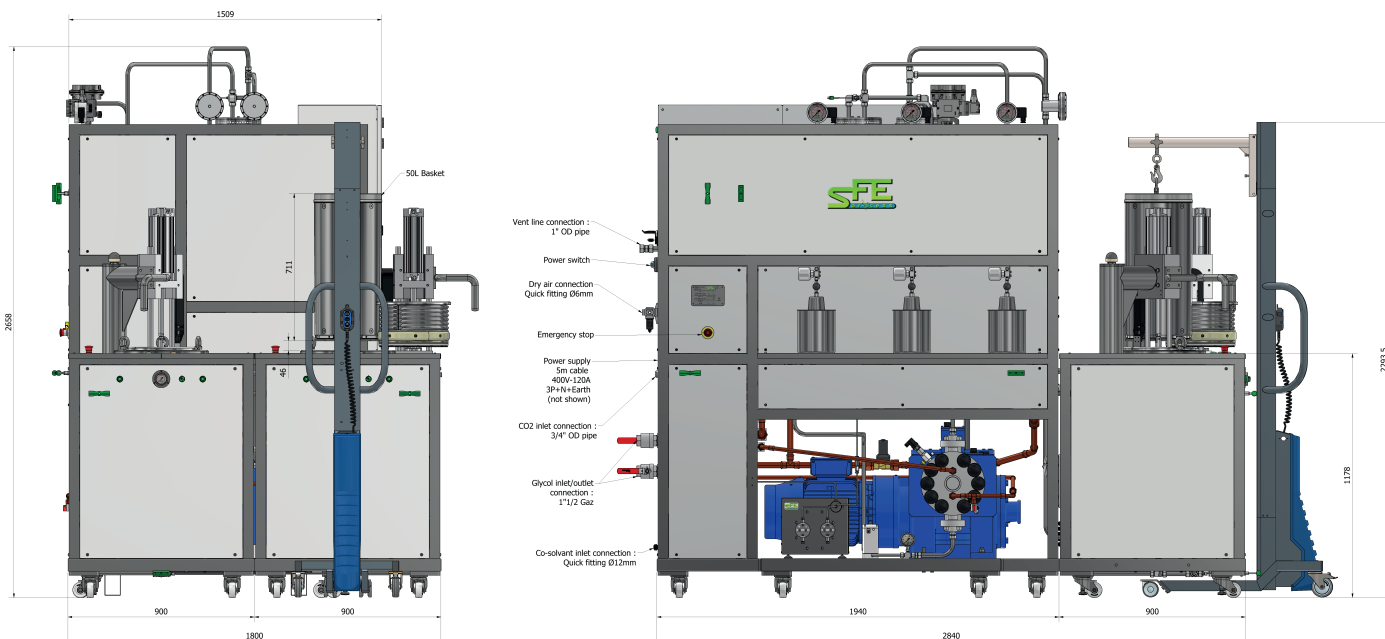
Service & support

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

Process fluid	Liquid CO ₂ deep pipe cylinder stored at room temperature 3/4" OD pipe
Power	Equipment: 3-phase / 400V / 50Hz / 124A Chiller: 3-phase / 400V / 32A circuit-breaker / 133A starting current / 150A electrical protection recommended Overhead crane: 3-phase / 380V / 32A
Tank	70L tank installed inside the equipment (not shown on drawing)
Vent line	1" 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	Ø7,5 bar - oil free (not supplied)
Dimensions	Complete solution: L 3 285 x W 1 800 x H 2 658 mm Equipment: L 2 840 x W 1 800 x H 2 658 mm Chiller: L 1 520 x W 1 325 x H 1 525 mm
Weight	Equipment: 4 400 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 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 (24h/day)	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

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 CO₂ solutions