

Tetra Extraction Machine G3

Introduction

- The device is efficient and eco-friendly.
- Low operating pressures secured by independent safety features in combination with the safety and non-flammability of 1,1,1,2-tetrafluoroethane make this technology an absolutely safe solution.
- The extraction process has fully automated control and is provided by the control system that continuously evaluates all parameters of the production process.
- A set of security measures and several levels of access minimize the possibility of process error, preventing manipulation of recipes, changes to security settings and misuse of sensitive data. Intelligent monitoring of plant components together with predictive maintenance significantly reduce service and operating costs.
- The compact dimensions of the equipment and its light weight make it easy to transport and handle.



Extraction vessel

- Material AISI 304 / 316
- Vessel capacity 82 L
- Special extraction basket for fast material change - 34 L volume
- Temperature monitoring
- Operating temperature 0 to 50 °C
- Pressure monitoring
- Working pressure – 1 to 16 bar
- Safety – pressure relief valve 20 bar
- Top pressure cap on hinges with two auxiliary gas struts and 16 screws
- Vessel opening detection

Distillation vessel

- Material AISI 304 / 316
- Optimally usable container volume 50 of 82 L
- Temperature monitoring
- Operating temperature 0 to 50 °C
- Pressure monitoring
- Working pressure -1 to 16 bar
- Safety – pressure relief valve 20 bar
- Top pressure cap on hinges with two auxiliary gas struts and 16 screws
- Vessel opening detection

Solvent vessel

- Material AISI 304 / 316
- Vessel capacity 180 L
- Volume of solvent in the vessel 120 kg
- Temperature monitoring
- Pressure monitoring
- System pressure up to 16 bar
- Safety – pressure relief valve 20 bar

Heating and cooling system

- Multi-circuit system with heat exchangers and recuperation
 - Heat pump with an output of 10 kW
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Solvent regeneration

- 2x powerful 0.75 kW compressor with a recovery rate of 150 l/hour. (depending on conditions)
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Power supply

- 400V / 50Hz / 16A
 - Three phases
 - Heat energy recovery fundamentally reduces the energy demand of the device
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TES (Control system)

- 17" touch screen, industrial computer
 - Fully automated software
 - Recording the progress of events and changes in device states
 - Possibility to create your own recipes
 - Sound and optical status indication
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Fillings

- Solvent – 120 kg pharmaceutical 1,1,1,2-tetrafluoroethane
 - Coolant – 1,6 kg R134a
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Other parameters

- Operating temperature 22 °C
- Relative humidity of the working environment 50 %
- Sound pressure level at full power 55 dBA
- Maximum volume of extracted material 34 L
- The average length of one extraction batch of 34 L (8-12 kg cannabis) is approx. 3 hours
- Weight incl. fillings 900 kg
- Height 195 cm
- Width 140 cm
- Length 140 cm