

HARNESS THE POWER OF HERBS AND BOTANICALS

ANDRITZ Turbex extractor for faster extraction of high-value natural compounds

Herbs and botanicals are rich sources of valuable bioactive compounds, including polyphenols, flavonoids, terpenes, essential oils, antioxidants, and active plant ingredients used in nutraceutical, food, beverage, cosmetic, and pharmaceutical applications. Traditional extraction methods often involve long processing times, multiple steps, high solvent consumption, and elevated temperatures that can compromise product quality. ANDRITZ Turbex is an innovative extraction system that uses turbulence, shear forces, and cavitation to maximize the recovery of valuable compounds from botanicals, including lemon balm, laurel, fennel, passion flower, olive leaves, medicinal plants, and aromatic herbs, bringing the following benefits:

- High extraction yields
- Faster processing
- Lower solvent and energy consumption
- Gentle, low-temperature extraction
- Continuous and scalable operation

With ANDRITZ Turbex, you can increase product value, improve quality, and create new revenue opportunities from plant-based ingredients.

ANDRITZ

Get the most from your botanicals

Generate additional revenue from your by-products

A COMPREHENSIVE SOLUTION FOR YOUR EXTRACTION NEEDS

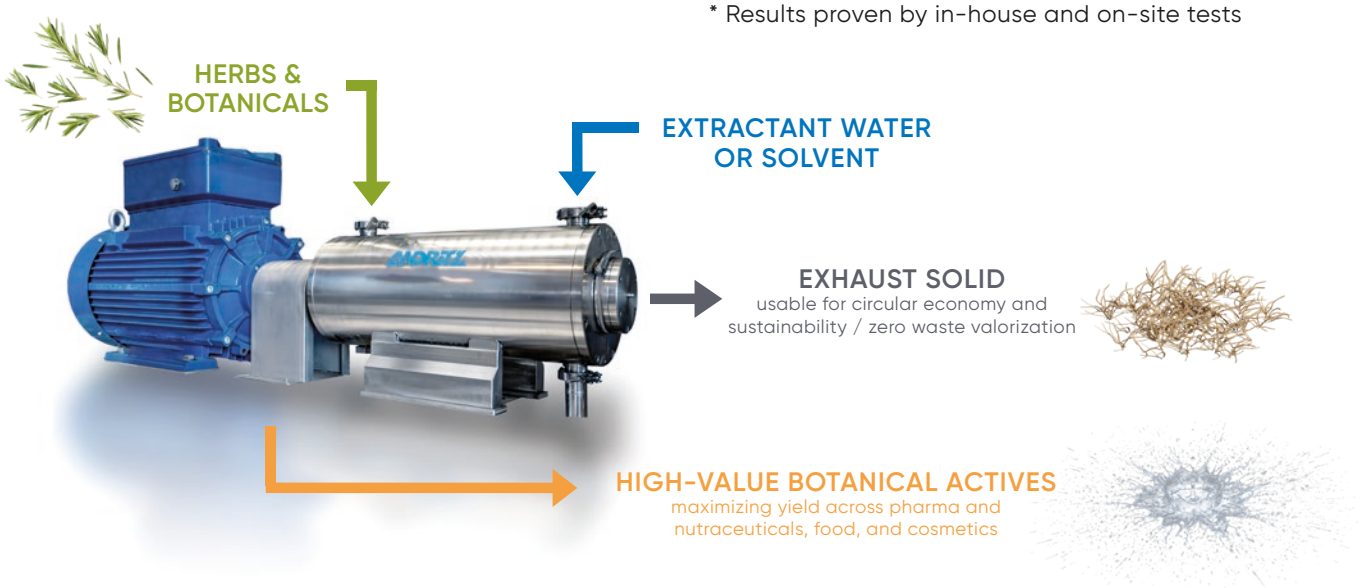
The ANDRITZ Turbex extractor is available in several configurations to extract substances from citrus peels:

- **TURBEX PILOT UNIT:** The Turbex pilot unit is equipped with a soaking/feed unit, a liquid recycling/solid dewatering system, and liquid extract filtration to facilitate the complete extraction cycle, including pre- and post-processing of inlet/outlet streams.
- **TURBEX MOBILE UNIT:** ANDRITZ can provide a skid-mounted rental unit to conduct tests to validate your specific process or simply to allow you to enjoy the benefits of meeting your extraction needs on time. Fully equipped with inlet/outlet pumps, this unit is able to process pre-soaked materials.

TURBEX BENEFITS*

- One-step extraction instead of. multiple processes, which reduces solvent costs
- Delivery of the highest quality functional ingredients, active principle elements, and vegetable proteins thanks to low extraction temperatures that avoid oxidation
- Cavitation ensures faster extraction compared to conventional processes, which means more production in less time
- Up to 50% higher yield for better profitability
- Up to 30% less energy consumption compared to traditional processes, leading to a faster return on investment

* Results proven by in-house and on-site tests



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