

INTEGRATED COOKER WITH PREHEATER FOR THE OILSEED INDUSTRY

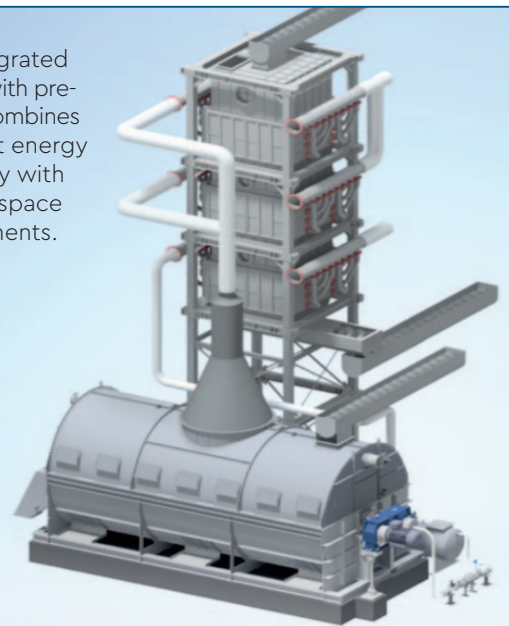
Saves energy, improves your CO₂ footprint & cuts emissions

The integrated VetterTec system solution with cooker and oilseed preheater is installed prior to the pressing process. It is designed to provide indirect steam heating conditioning of **rape seed, sunflower seed**, and other free flowing seeds and grains. The system enables reliable and **highly energy-efficient heating of the oilseed**, as well as **energy recovery from the cooker** and the integration of other heat sources for seed preheating. This not only **reduces the primary energy requirement and therefore the CO₂ footprint** of the system, but also means **minimized exhaust gas and odour emissions**.

ADVANTAGES

- ✓ Use of dryer vapours to heat the preheater, typically **no additional steam required**
- ✓ Low cost of installation and maintenance because of the **modular design**
- ✓ **Maximum energy savings** due to high wet bulb temperatures
- ✓ **Up to 100% energy recovery**, use of condensation heat of waste gas
- ✓ Significant **reduction of exhaust gas emissions** (smell, VOC, volume)
- ✓ **Highest level of energy efficiency** for the rapid heating of your product
- ✓ **Minimum space requirements**
- ✓ Mechanical & electrical installation services available

The integrated cooker with pre-heater combines excellent energy efficiency with minimal space requirements.



Curious to find out more? Ask your VetterTec expert – we're here to help!
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WHY CHOOSE VETTERTEC

With **over 3600 systems installed worldwide**, we are a leading expert in industrial drying, dewatering and thermal conditioning technology. Manufacturers from the agrifood, chemical and food industries put their trust in the **high quality** and **good return on investment** of VetterTec equipment. Designed for **low energy consumption**, **minimal emissions** – and **outstanding performance**.



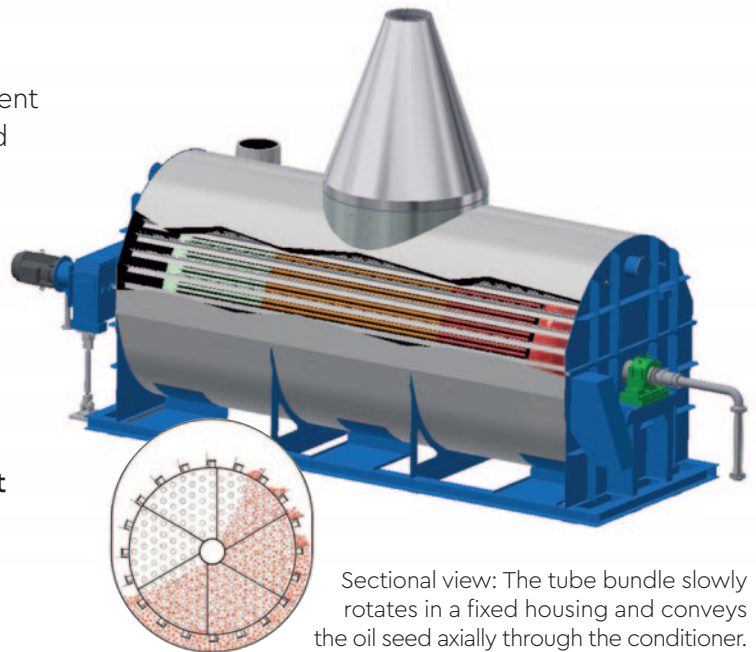
INTEGRATED COOKER WITH PREHEATER

VETTERTEC CONDITIONER/COOKER

The VetterTec conditioner is well-known for its efficient and gentle heating of the oil seeds which is achieved by contact with the tubes and convection. By using steam as an indirect heating medium, customers are flexible in the choice of their energy source.

Main Characteristics:

- ✓ Non-rotating housing, minimized mechanical stress, high reliability, **longer lifetime**
- ✓ **Low installation costs** through modular design
- ✓ **Compact design, minimum space requirement**
- ✓ **Gentle heating** with low temperatures, excellent product quality
- ✓ **Low energy consumption**
- ✓ Many successful and well-proven installations worldwide



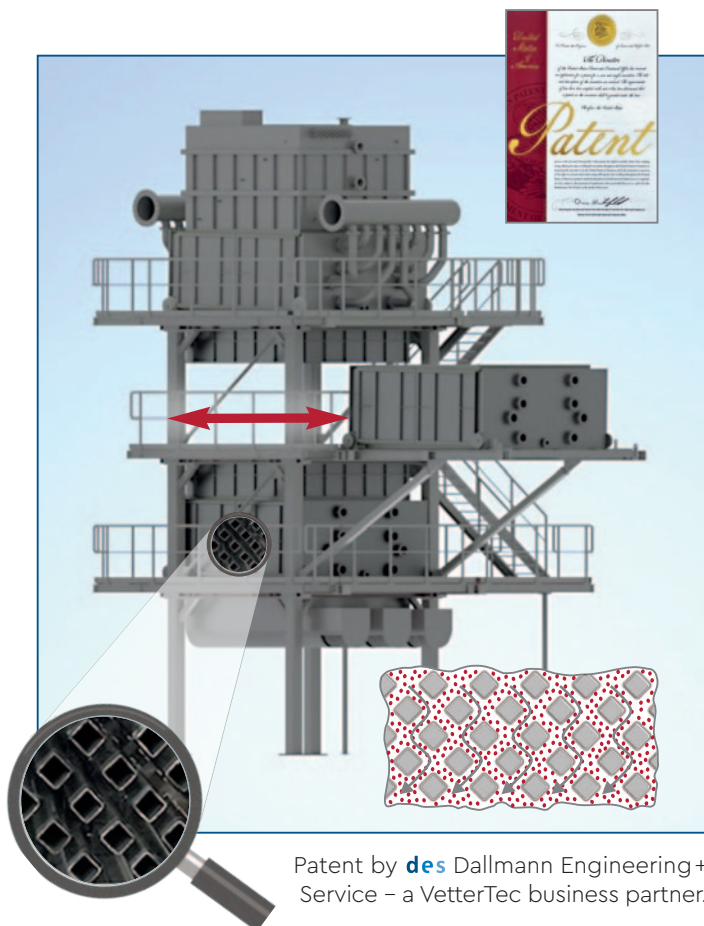
Sectional view: The tube bundle slowly rotates in a fixed housing and conveys the oil seed axially through the conditioner.

PREHEATER IN MODULAR DESIGN

The patented preheater* is characterised by its high efficiency and enormous energy savings. The bulk material is fed in from the top and flows down surrounding the complete tube surface.

Main Characteristics:

- ✓ **Maximum heat exchange** through bulk contact.
- ✓ **Optimum material mixing** through individual arrangement and shape of the pipes.
- ✓ Direct heating with waste gas **saves energy losses** in converting the gas stream to liquid. No auxiliary conversion system required.
- ✓ Number of heating modules is **freely adjustable**
- ✓ Each module is divided into **4 segments**, heatable by various sources (water, steam, oil,...)
- ✓ The modular design allows **each segment to be rolled out individually and serviced** as required.
- ✓ The maintenance platform is adjustable to the required level.



Patent by **des** Dallmann Engineering + Service – a VetterTec business partner.



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