



FJELL SCREW COOKER

Technology
for value circle

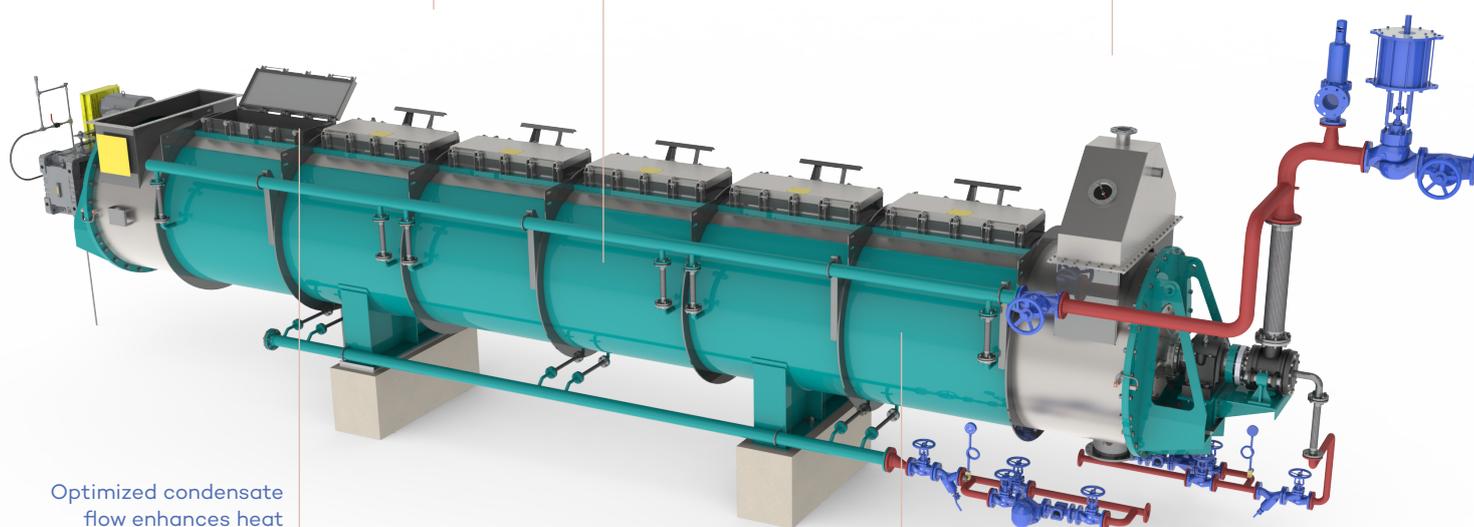


FJELL SCREW COOKER

Cooker design to be fitted in any production facility.

Rotor speed, steam pressure and temperature can be regulated. This is to achieve gentle cooking of the different types of fish.

Prepared for both oil and grease lubricated bearings - securing longest possible service interval.



Optimized condensate flow enhances heat transfer efficiency.

Unique design of steam supply improving distribution of heat throughout all flights.



Relevant applications

- Fishmeal plants – both on land and on marine installations.
- Poultry rendering plants.

Advantages

The Fjell screw cooker is based on the original Stord-Bartz cooker, but everything that can be optimized has been optimized. The steam- and condensate flows have been redesigned for more optimal distribution. The result is an improved performance with more even distribution of temperature over the entire heating surface throughout the rotor, lower energy consumption, and longer time between cleaning intervals. We feel confident that there is no better screw cooker available in the market today.

- Large heating surface provides optimum heat transfer and process control.
- Gentle slow cooking improves subsequent separation, and improves oil yields and stick water quality.
- Long life reliability due to state-of-the-art shafts and bearings (automatic oil-lubricated).
- Reduces stickwater and suspended solids content.
- Increase of oil yield.
- Reduced energy consumption.
- Longer intervals between cleanings.



The design

Fjell Screw Cooker

Fjell designs several versions of:

- Single stage screw cooker.
- Double stage screw cooker.

Typically, first stage uses waste heat and second stage low pressure steam.

Our disc cooker is the best solution for process control and to increase oil yield from marine- and animal raw materials. The two-stage solution provides better process control.

Our cookers are manufactured with a steam heated (up to 10 barge) rotor with multiple discs. Indirect heat is gently applied to the raw material, which ensures full coagulation control and efficiency. Normally max 4 bar. Fjell screw cooker (SS) is designed for gentle handling of raw material during cooking.

Each flight is assembled from two profiled plates without the use of stay bolts, which when connected, form an internal cavity for the steam/condensate. The

distinctive design effectively eliminates the potential for steam leakages originating from the stay bolts. The rotor's internal function is an optimized solution for steam and condensate. As a result, the heat transfer efficiency is improved.

An additional advantage, due to the unique shape of the flights, is an optimal flow of raw material throughout the entire cooking process. The rotor design has a smooth surface, which ensures maximum heat transfer and minimizes fouling.

The Standard Cooker SS uses steam as the heating medium. As an option Fjell can design cookers that reuses energy and uses hot water as the heating medium.

We deliver all the classic sizes of Stord SS type cookers from small units for a few MT raw material per hour to the large SS160/14 rated for 50 tons/hr.

Standard cooker is carbon steel, but fully stainless-steel cookers are available for improved hygiene and lifetime.



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fjelltg.no

F[★] FJELL TECHNOLOGY
GROUP

Email post@fjelltg.com
Sales enquiries +47 4690 8056
Other enquiries +47 9962 0772

Main office
Thormøhlensgate 49A
Marineholmen
5006 Bergen
Norway

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