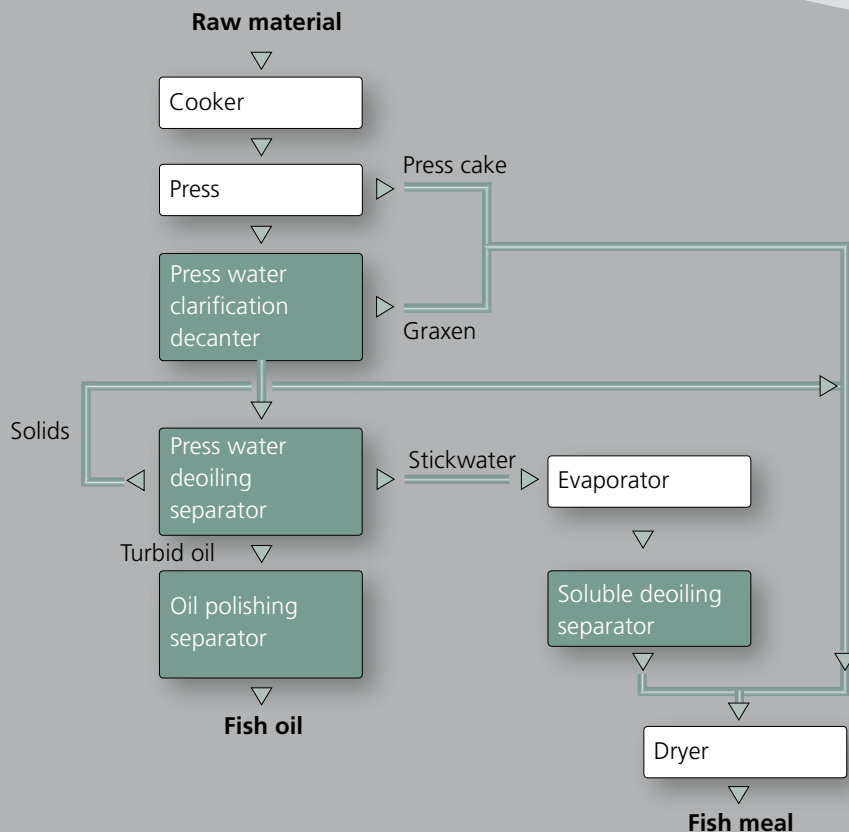


Liquids to Value



Fish Meal and Fish Oil Recovery – The Conventional Process

In the conventional process, the raw material is heated in a cooker to coagulate the protein whilst the fat-containing cells are gently disintegrated so that the oil will be released. The cooked raw material is fed to a screw press before a 2-phase decanter clarifies the press water and recovers the fine solids from the

process. In the following process step the oil, which is part of the liquid phase will be recovered by a 3-phase self-cleaning separator. The separated solids can be conveyed to the dryer along with the press cake from the press and the graxen from the decanter. The stickwater or heavy liquid phase from the press water

separator is evaporated before it is dried and processed into fish meal. Optionally, the concentrate phase can be even further deoiled with an additional separator stage. To obtain maximum quality fish oil the turbid oil or light liquid phase has to be subsequently polished by a 3-phase self-cleaning oil polisher.





Decaners for press water clarification

- Complete decanter range from 5 – 60 m³/h
- Customized solutions
- Robust design, particularly designed for hot operation processes
- Sophisticated wear protection for long operation lives
- Special bowl concepts for maximum throughput and clarifying efficiency
- Westfalia Separator® **varipond**® for always optimal separation results even with different feed conditions
- Made in Germany – Quality assurance system, CE conformity, DIN EN ISO 9000:2000 and 14001



Separators for press water deoiling

- Complete separator range from 2 – 60 m³/h
- Customized solutions
- Special disc stack for optimized stick water quality
- Robust design for maximum reliability
- Hydrohermetic feed for gentle product treatment
- Sanitary and CIP-capable design
- Westfalia Separator® **selfthinker** ejection control for maximum solids content of the sludge phase and minimum oil losses
- Made in Germany – Quality assurance system, CE conformity, DIN EN ISO 9000:2000 and 14001



Separators for oil polishing

- Complete polisher range from 0.5 – 30 m³/h
- Customized solutions
- Optimized disc stack for top fish oil quality
- Minimum number of parts and seals for minimum wear
- Very service-friendly flat belt drives
- Assembly-friendly design for fast service
- Low vibration machine installation for an easy integration into the process
- Made in Germany – Quality assurance system, CE conformity, DIN EN ISO 9000:2000 and 14001



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