



## Fish Rendering Systems

**ANCO-EAGLIN, INC.**  
**High Point, NC, USA**

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[www.ancoeaglin.com](http://www.ancoeaglin.com)

# ODOR CONTROL & CONDENSERS

Today's fish-rendering plants are not complete until they address the needs of condensing and odor control. ANCO-EAGLIN offers a series of direct-contact or indirect condensers for vapor condensing and packed bed scrubbers for odor control. Designed for specific industry applications, ANCO direct condenser/pre-scrubbers have the flexibility to use "treated" wastewater, well water, river water, sea water, etc. These environmentally friendly water sources reduce "fresh-water" demands and lower plant-operation costs. The process removes the particulates, cools the vapor and converts the vapor to a form easily discharged to the atmosphere, or handled by the optional scrubber for complete odor treatment.

For large air volumes or odors of high intensity, the 1320 Packed Bed Scrubber chemically washes odors with environmentally friendly chemicals. The PH of the water is controlled through a PLC, reducing operator error, maximizing odor control and limiting the amount of chemical required. The ANCO Packed Bed Scrubber is considered a **BAT (Best Available Technology)**. Additional stages can be easily added to achieve the desired odor-control removal level.



# "LAMELLA" PUMPING SYSTEMS

ANCO Lamella Pumps were developed for the demanding fish meal industry. The patented positive-displacement design creates four large pumping chambers. This allows for higher capacities and the ability to accept larger pieces, when compared to other pumps designed for the fish industry.

A low-RPM design ensures low friction, which results in gentle pumping and reduces excessive wear on the pump. Each ANCO Lamella pump is manufactured with extremely wear-resistant materials. Parts subject to wear are easily replaceable, ensuring years of reliable performance and operation.

Designed for a variety of geometric configurations and accepting a feed screw or gravity feed, this pump is designed to meet specific installation and application requirements.



# AUTOMATION & ELECTRICAL CONTROL

The major benefit in having ANCO-EAGLIN develop your automation and electrical control is single source responsibility. By developing the best controls, you are provided with a higher degree of product quality while minimizing system downtime. Controls can be simple, analog, or state-of-the-art PLC with touch-screen technology.



# SPARE PARTS

At our new manufacturing facility in High Point, North Carolina, we stock over 1 million replacement parts for related ANCO® equipment. ANCO-EAGLIN is committed to providing our customers with the highest quality of equipment and services. Original ANCO stock parts are essential in maintaining peak performance operations.



**ANCO-EAGLIN** offers a full range of products incorporating innovative ideas and common sense solutions; ANCO-EAGLIN can provide the "Know-How" for your particular needs. We would appreciate the opportunity to share our experience and product technology in the following areas:

- ⊙ Tallow Press Expellers
- ⊙ Screening
- ⊙ Continuous Hydrolyzers
- ⊙ Coagulating
- ⊙ Pressure Coded Vessels
- ⊙ Grinding/ Milling Equipment
- ⊙ Condensing Systems
- ⊙ Waste Heat Recovery

**ANCO-EAGLIN, Inc.** is a leading manufacturer of industrial processing equipment for fish meal, rendering, food, chemical, and associated industries. ANCO has provided equipment and service in these and related industries since 1902. Technological expertise and over 100 years of proven reliability have made ANCO the industry's number one source for batch and continuous processing equipment.

ANCO, one of the most reliable and dependable names in the industry, was acquired in 1993 and ANCO-EAGLIN was established. With our new state-of-the-art manufacturing facility in High Point, North Carolina, we have been providing new equipment and innovative processes to clients worldwide.

Emphasis is placed on know-how and customer service, while providing the highest-quality equipment to all our customers domestically and internationally. To learn more about ANCO-EAGLIN, please visit our website at [www.ancoeaglin.com](http://www.ancoeaglin.com).



## ANCO Fish Meal System

ANCO's engineering team consists of engineers from the fish-meal and fish-processing industries. Their hands-on experience and expertise provide our clients with the best possible solutions and plant designs.

ANCO can offer ANY type of fish meal plants, starting with the most effective and low cost rendering systems, up to large-scale continuous fish meal plants.

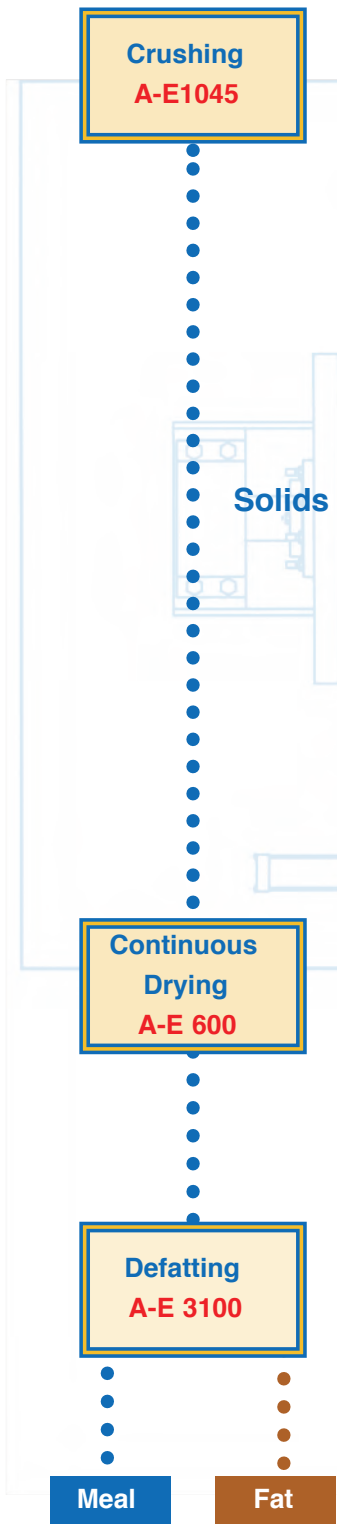
The ANCO batch system utilizes ANCO batch cookers, depending on the fish species and capacities; there are several ways to design this system. Material is crushed, dried, and pressed, or fat will be centrifugally removed prior to a final dry. For smaller applications, pressing may not be required, thereby simplifying the process even more.

For higher production, species-specific, or optimum meal quality, a customer may consider either the ANCO LTR (Low Temp Rendering) or the TS (Twin Screw) Continuous System.

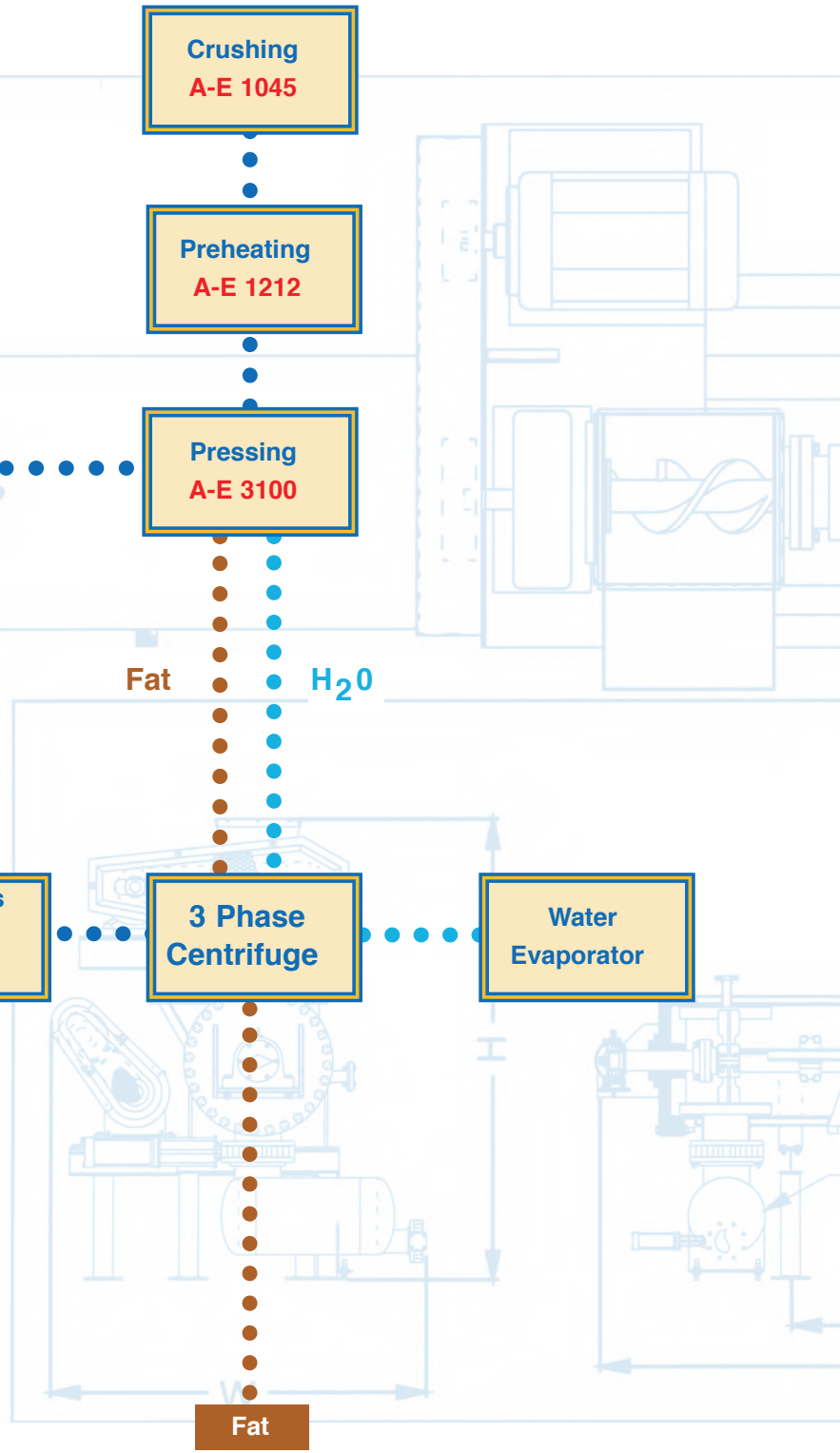
The fish is ground, pre-heated, dewatered, fat removed, and continuously dried. A major portion of the water is separated by mechanical energy rather than thermal energy to achieve the highest quality fish oils and fish meals.

For each system, the correct consistency is required to achieve optimal results. The fish must be ground and preheated to precise conditions. With ANCO's expertise and wide range of continuous dryers, we can easily determine the best solution for your application.

## Anco Batch Rendering System

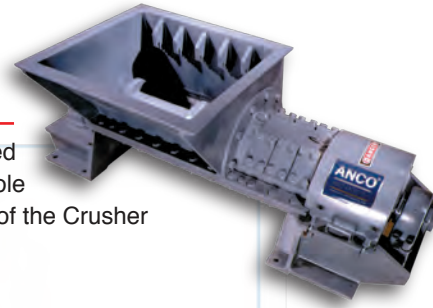


## Anco Continuous Rendering System



# 1045 CRUSHER

Designed in a variety of sizes for large or small rendering capacity. Originally developed for the red meat industry, the 1045 Crusher can be specified for coarse grinding of whole fish or fine grinding as required for "Low Temp" rendering systems. The cutting action of the Crusher is enhanced hardened tool steel for extended product life.



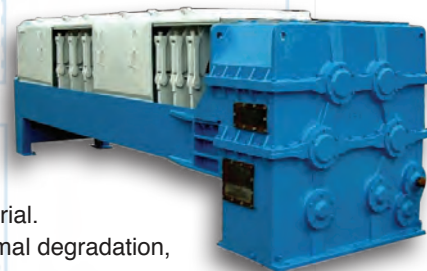
# 1212 CONTINUOUS FISH COOKER

This unit provides heating of raw fish meal prior to pressing. Heat is provided by a combination of indirect and direct steam heat sources. The main vessel is built and jacketed to ASME code allowing a high degree of flexibility. A PLC control loop allows the product rate and heating temperature to vary for specific industry applications.



# TWIN AE-BS SCREW PRESS

ANCO Stord-type Twin screw presses designed for continuous mechanical dewatering that provides efficient reduction of the oil/fat content of the heated material. This mechanical dewatering helps produce higher-end products from reduced thermal degradation, while substantially reducing energy operational costs.



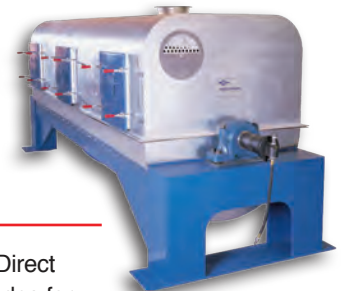
ANCO presses are designed, manufactured, pre-assembled and tested to ensure optimum performance prior to shipping. Each press is designed for long life and minimal maintenance requirements. The press includes an oversized shaft, heavy-duty bearings and thick S.S. screens for years of trouble-free operation.

# ANCO DRYERS FOR THE FISH MEAL INDUSTRY

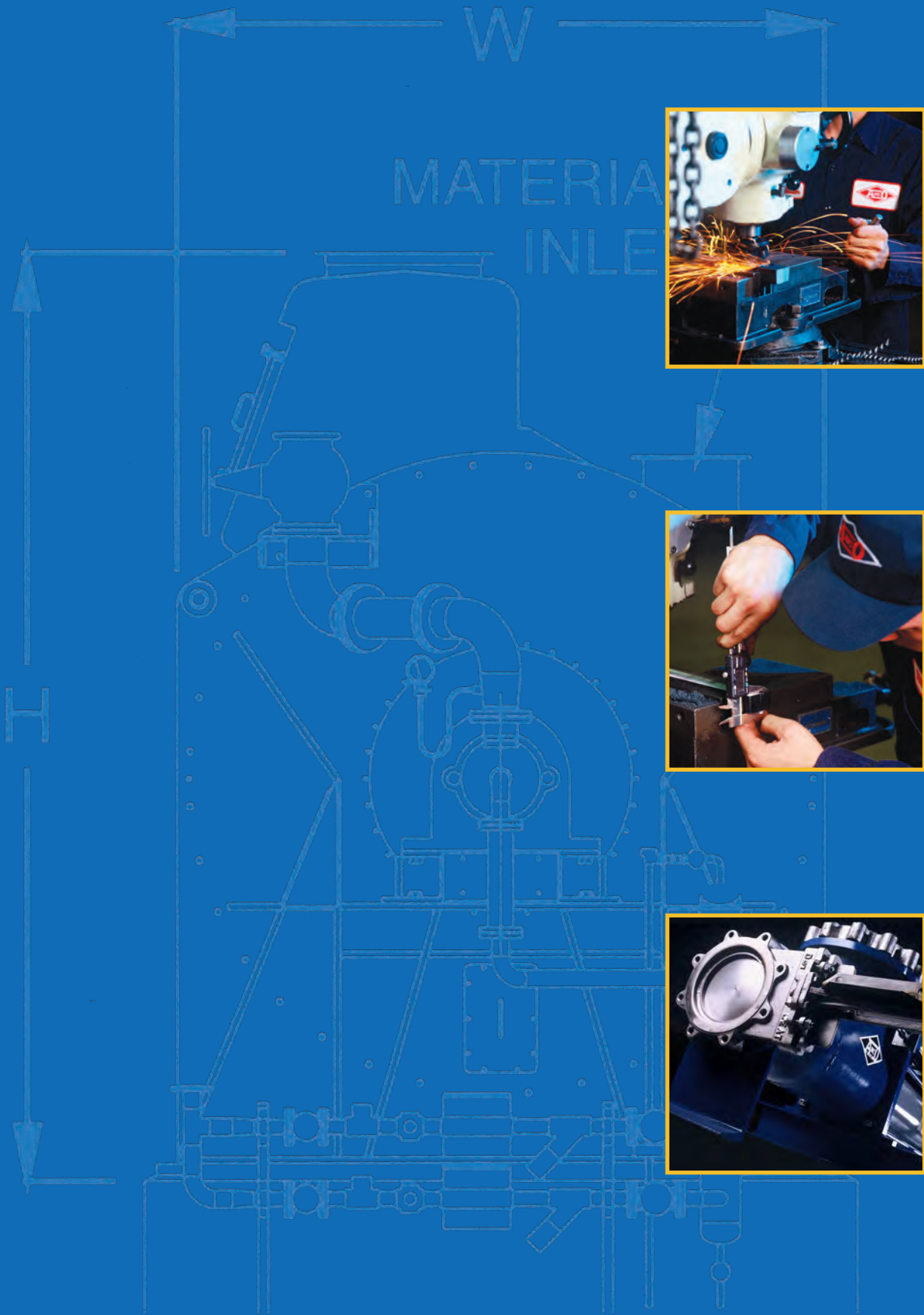
ANCO offers a large selection of drying equipment from Batch cookers, Continuous Disc and Tube Driers, to Direct Fired Driers (DFD). The Batch, Disc and Tube driers are steam-heated vessels built to the world's highest codes for pressure vessels, ASME, Lloyd's, TUV, or in accordance with pressure vessel regulations in the country in which it is operated.

Our DFD's utilize heavy steel fabrication in the drums, high temperature inlet seals, multiple pass reverse flow design, and scalloped flighting for efficiency. This reverse flow zone design has shown improvements in capacity compared to the convention dryers, while limiting blue haze and lowering fire situations.

Rugged construction is a necessity for these drying applications and ALL ANCO driers are built for the durability that the fish meal industry requires.



Steam Saver



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