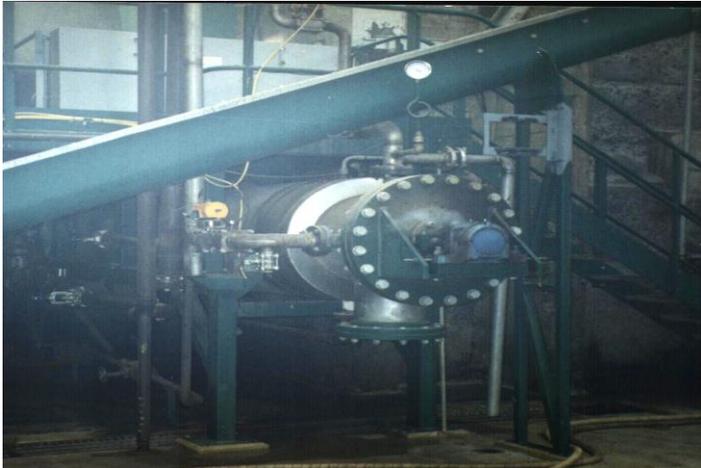


CONTINUOUS FEATHER HYDROLYSER



The Rendertech **Continuous Feather Hydrolyser (CFH)** converts poultry feathers and hog hair into a highly nutritional animal feed. It is simple to operate and maintain.

DESCRIPTION

The feathers are fed into the hopper of the feeder by belt or screw conveyor. The feed screw in the feeder creates a plug of feathers and conveys them through a pipe into the vessel.

The pressure generated by the feed screw also expels free water from the feathers that is drained through slots in the feeder hopper.

In the hydrolyser vessel the product is heated by direct steam injection and a steam heated jacket on the vessel. The paddles fitted to the central shaft, rotating at low speed, ensure the product is agitated and evenly hydrolysed. Product discharge is continuous.

The hydrolyser is fully integrated and supplied complete with control panel to ensure simple installation in your plant.

PRODUCT QUALITY

The residence time and operating temperature are optimised to ensure the best combination of digestibility and protein levels. This is achieved by a

short cycle time and high pressure. Continuous operation assures consistent high quality and amino acid profile.

HIGH EFFICIENCY

The hydrolyser includes a pressing stage in the feed hopper to expel free water and ensure energy is not consumed by processing excess water. Steam consumption is 300 kg per 1,000 kg of raw feathers.

The discharge system from the hydrolyser results in a high level of flash steam. This makes a drier product at discharge and reduces drying costs downstream.

Electrical power is low in relation to production.

SIMPLE OPERATION

The hydrolysers are continuous, fully automatic and require minimal operator monitoring.

LOW MAINTENANCE

The hydrolyser has proven to be reliable with low maintenance requirements.

ODOUR CONTROL

The sealed inlet and outlet of the hydrolyser ensures simple capture and treatment of odours.

DRYING

The hydrolysed feathers are discharged into a hopper before feeding to a rotary or steam heated disc drier. We would be pleased to provide a recommendation.

CAPACITY

Product dependant up to 4,500 kg/h.

UTILITIES

STEAM : Approx. 300 kg/1,000 kg product in feed at 850 kPa.

AIR: Up to 0.75m³/min. @ 500 kPa.

ELECTRICAL: Feeder Motor 37 Kw
 Agitator Motor 11 Kw

WEIGHT: 9t operating

MATERIALS

Stainless steel shell, end plates carbon steel lined with stainless steel, outer jacket carbon steel.

DESIGN CODES

Both shell and jacket designed for 850 kPa to AS1210 or PD5500 pressure vessel codes.

