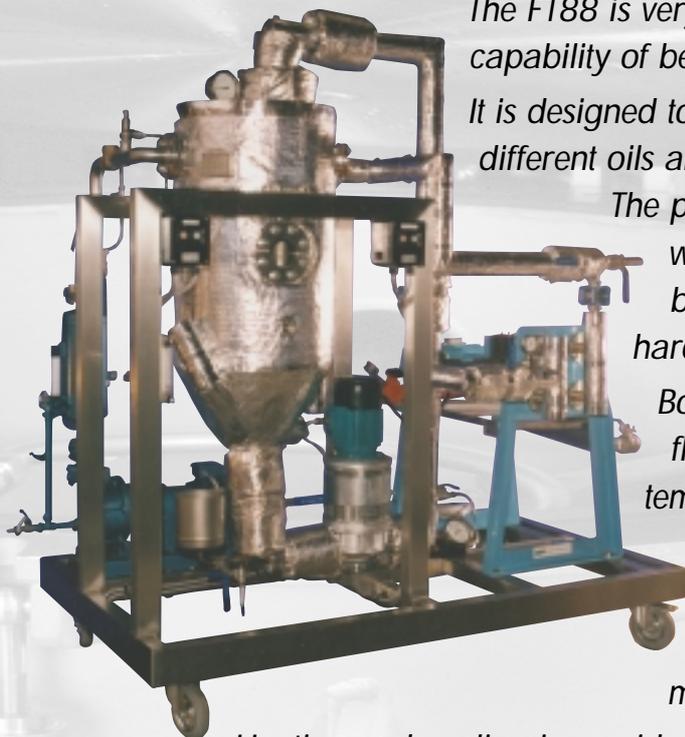


PRODUCT DETAILS

FT87 Loop Hydrogenation Pilot Plant

FT88 Dual Purpose Hydrogenation and Interesterification Plant

The FT87 Hydrogenation system implements the pumped loop system of agitation widely used in industrial scale plants. In this way the system accurately reproduces the performance of these industrial plants.



The FT88 is very similar to the FT87, with the added capability of being used for interesterification.

It is designed to perform trans or intra esterification of different oils and fats using sodium methoxide catalyst.

The process provides the capability to produce a wide range of new products including cocoa butter substitutes and zero trans fatty acid hardstocks for margarine production.

Both systems are designed to be highly flexible, and operate over a wide range of temperature and pressure conditions. The gas absorption and reaction rates are controllable.

An accurate hydrogen measurement module is an option.

Heating and cooling is provided by a separate unit, with automatic temperature control, which is also used to control the exothermic heat of reaction.

Filtration of catalyst is carried out using a plate and frame filter unit, which can be pre-coated with filter aid, thus ensuring highly efficient catalyst removal.

The electric vacuum pump, circulation pump, instruments and control switches are made to international flame proof standards and installed accordingly.

The heating system is designed to be installed outside the operating zone, with thermal heating oil pumped through an external jacket, which is fitted on the outside of the loop reactor.

Standard units are available with maximum capacities of 50, 75 or 100 litres. (FT87-50, FT87-75, FT87-100 etc). For other sizes please contact Armfield.

