

The Armfield FT85 Sterile Vessel can store UHT processed product for sterile filling at a later point. It eliminates product wastage associated with pilot-scale continuous-operation filling systems that lack buffering capacity.

The vessel is sited between Armfield's UHT processing units and the FT83 Sterile Filling System and is available with vessel sizes from 30 litres as standard (other sizes on request).

It is designed for operation with Armfield systems, but can be operated with other equipment.



### Features / benefits

- ▶ Sterile product can be stored until required
- ▶ No product wastage during filling
- ▶ Small footprint and mobile
- ▶ Steam sterilisable by external or integral supply (FT85-10)
- ▶ FT85 can be used for non-sterile processing
- ▶ Variable sterilisation protocol control from touchscreen display
- ▶ Can be integrated into Armfield or other UHT/filling systems
- ▶ 30-litre standard vessel volume
- ▶ Clean-in-place capability
- ▶ Automated process operations
- ▶ Product agitation using a motor / physical agitation
- ▶ Continuous level sensing
- ▶ Trace heating and insulation to maintain product temperature during storage

## Description

The FT85 is controlled via a touchscreen mounted on the unit with modes for vessel filling, vessel emptying (bottling), sterilisation and cleaning. Vessel volume 30 litres or 200 litres.

The UHT/filling system and the FT85 are first sterilised in separate processes. Time and temperature for the sterilisation process is set from the touchscreen. Once sterile, the UHT system is then placed in process mode and the FT85 into vessel fill mode. Sterilised product then fills the vessel.

Once processing is complete flow bypasses the vessel and is then stopped. Sterile gas can be pumped into the vessel to provide product mixing. The vessel is then placed in Vessel Empty mode and positive head pressure on the vessel (sterile gas) is used to feed the product to the filler. The FT85 is cleaned in place using a CIP spray ball with the UHT system pumping the cleaning fluid through the system.

### Steam Generator (FT85-10)

FT85-10 enables sterilisation of the vessel without the need for an external steam supply

## Associated equipment

- ▶ FT74XA – UHT/HTST System
- ▶ FT174X – Modular Miniature-scale HTST/UHT Process System
- ▶ FT94LT – UHT Mini Pilot System
- ▶ FT94X – HTST/UHT Mini Pilot System
- ▶ FT83 – Sterile Filling System
- ▶ UOP10 – Laboratory Steam Generator

## Requirements

## Scale



- ▶ Electrical supply: Single phase (see ordering codes)
- ▶ Air supply: 6 bar with minimal air consumption
- ▶ Steam supply: External steam supply required if FT85-10 option is not specified: 4 bar @ 4 kg/hr
- ▶ FT85-10: This option requires a mains or softened water supply: 1 bar @ 2 l/min

## Technical specifications

Vessel capacity	30-200 litres (contact Armfield for other sizes)
Max sterilisation temp	140°C

## Overall dimensions

Length	1.00m
Width	0.72m
Height	1.5m

## Packed and crated shipping specifications

Volume	1.3m <sup>3</sup>
Gross weight	200Kg

## Software

The armSOFT™ software displays the equipment flow diagram with readings displayed for all sensors. Time/temperature sterilisation protocols are set or recalled from memory. There are also controls for feed pump stop/start and speed. A data tab offers several options for processing and displaying the data from the equipment in the form of graphs and results tables. Results are saved in a log, which can be viewed and manipulated with the armSOFT™ Results Viewer, or they can be exported to a generic spreadsheet format for further analysis.

## Software

View details at: [www.armfield.co.uk/armsoft](http://www.armfield.co.uk/armsoft)



## Ordering codes

- ▶ FT85-A: 220-240V / 1ph / 50Hz / 13A
- ▶ FT85-G: 220-240V / 1ph / 60Hz / 13A
- ▶ FT85-10-A: 220-240V / 1ph / 50Hz / 22A
- ▶ FT85-10-G: 220-240V / 1ph / 60Hz / 22A
- ▶ FT85-10-C: 380-415V / 3ph / 50Hz / 10A
- ▶ FT85-10-D: 208-220V / 3ph / 60Hz / 20A

## Knowledge base

- > 28 years expertise in research & development technology
- > 50 years providing engaging engineering teaching equipment

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An ISO 9001:2015 Company



[armfield.co.uk](http://armfield.co.uk)

## Aftercare

Installation  
Commissioning  
Training  
Service and maintenance  
Support: [armfieldassist.com](http://armfieldassist.com)