

**FT
SERIES**

Armfield FT140X Multipurpose Mixing Vessels are designed and constructed using high-quality hygienic industry standard materials.

These tanks are available in three models of varying configurations (see table) and are available in 50l and 100l volumes. All three models have an internal surface made of AISI 316 stainless steel.

CIP Spray Ball**Mixing vessel with optional twin direction paddles****Mixing vessels – FT140X**

AVAILABLE WITH TEMPERATURE CONTROL OR HIGH SHEAR EMULSIFIER

**Heaters / Mixers**

- ▶ Temperature control option with water jacket (CFCR)
- ▶ IP65 rated control panels
- ▶ Modes - setting and switching process parameters using touchscreen and the facility to set and recall process programmes
- ▶ Electronic control speed for mixing agitator (20-60 rpm)
- ▶ Datalogging to record process data
- ▶ 50 or 100l tanks available as standard
- ▶ CIP spray ball as standard
- ▶ 316L stainless steel finish for all product contact surfaces
- ▶ Low speed agitator with two direction paddle as an option
- ▶ 316 stainless steel drain valve
- ▶ High shear, variable speed emulsification mixer as option
- ▶ Safety switch on lid
- ▶ Alarm and controls indicators on touch screen
- ▶ VPN connection
- ▶ Interchangeable Teflon scrapers

Description

These tanks have been designed for industrial applications and are ideal for product storage and formulation in factory and pilot plant environments.

All tanks are supplied with an anti-dust cover, which is connected to an electronic safety switch. This ensures mixing only takes place when the lid is closed unless you choose to override. They also come with an anti-oxidant lid and a visualisation column for level indication.

The agitators are manufactured with alternately rotating racks (optional), making these vessels ideal for preparing and mixing dense products like creams, soups and broths.

Electronically controlled variable speed turbo-emulsifiers with holes or slots can also be used for agitation.

Cooling in the jacketed vessel is achieved using an external water supply or by means of a closed circuit cooling system.

The control panels are IP65 rated. They come complete with a manual override safety switch, temperature controller, indicator lamps, speed regulator, a fully protected Plexiglas casing and an emergency stop button.



Tank Type	Volume (l)	Overall Height (m)	External Diameter (m)
CFC	50	1.28	0.40
	100	1.33	0.50
CFCR	50	1.28	0.51
	100	1.33	0.60
CCT	50	1.28	0.51
	100	1.33	0.60

Vessel Type	Description
CFC	Non jacketed vessel with variable speed agitator
CFCR	Jacketed vessel with variable speed agitator, heaters and temperature controller
CCT	Jacketed vessel with variable speed agitator, high shear emulsifier, heaters and temperature controller

Overall dimensions

Length	1.80m
Width	1.00m
Height	1.40m
Packed and crated shipping specifications	
Volume	1.7m ³
Gross weight	250Kg

Requirements

Scale



- ▶ Electrical Supply: Single phase or 3-phase depending on the unit (see ordering codes)
- ▶ Water supply for jacketed vessels
- ▶ Drainage

Features on jacketed tanks

- ▶ 316L stainless steel thermostatic chamber
- ▶ Electrical heating
- ▶ Cooling water inlet and closing valve
- ▶ Water jacket level overflow
- ▶ Insulation with stainless steel cladding
- ▶ Electronic temperature indicator and controller

FT140X safety lid lock



Ordering codes

- ▶ FT140-50-CFC-A 220-240V/1ph/50Hz/10A
- ▶ FT140-50-CFC-G 220-240V/1ph/60Hz/10A
- ▶ FT140-100-CFC-A 220-240V/1ph/50Hz/10A
- ▶ FT140-100-CFC-G 220-240V/1ph/60Hz/10A
- ▶ FT140X-50-CFCR-A 220-240V/1ph/50Hz/14A
- ▶ FT140X-50-CFCR-G 220-240V/1ph/60Hz/14A
- ▶ FT140X-100-CFCR-A 220-240V/1ph/50Hz/23A
- ▶ FT140X-100-CFCR-G 220-240V/3ph/60Hz/23A
- ▶ FT140X-50-CCT-A 220-240V/1ph/50Hz/21A
- ▶ FT140X-50-CCT-G 220-240V/1ph/60Hz/21A
- ▶ FT140X-100-CCT-A 220-240V/1ph/50Hz/29A
- ▶ FT140X-100-CCT-D 208-220V/3ph/60Hz/29A

Three-phase variants of these systems are available to reduce the requirement for current.

Specific supply protection is required. Please request information specific to the system you purchase prior to preparing your laboratory or pilot plant.

Knowledge base

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

Benefit from our experience, just call or email to discuss your laboratory needs, latest project or application.

An ISO 9001:2015 Company



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Aftercare

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Commissioning
Training
Service and maintenance
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