





The Armfield Cheese Vat makes an ideal research facility. When making Cheddar type cheese, approximately 1kg of cheese is produced from a 10 litre batch of milk.

features

- 10 litre capacity stainless steel jacketed vat
- Bench mounting with small footprint
- *▶* Separate console controls vat temperature and paddle speed
- Water heater fitted in console
- Temperature and pH can be monitored by microcomputer using an appropriate interface
- Range of cheese making accessories
- 🥟 Simple controls

benefits

- Makes all well known types of cheese
- Economical with raw materials
- Ikg batch provides adequate material for sampling
- 🥒 Ease of use







Miniature-scale R & D technology

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Armfield R&D products i	nclude:
316 Stainless steel	\odot
CE certification	\odot
Extended warranty as standard	\bigcirc

For more product information please visit: www.explorearmfield.com





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Description

Manufactured wholly in stainless steel and benchmounted, the vat is hvaienic in use. It has a removable paddle agitator of stainless steel, driven through a *quarded linkage system by a variable speed drive motor.* Water is circulated through the vat jacket at a preselected temperature by the pump contained in the separate control console which stands adjacent to the vat.

The control console incorporates:

- > chart recorder for continuous printout of pH of vat contents
- > digital display of pH of vat contents
- digital display of temperature of vat contents >
- two analog output ports for computer monitoring of > vat temperature and pH
- > agitator stop/start and variable speed control

The pH and temperature probes are suspended in the vat contents from a bracket on the rim of the vat. A specially designed perforated strainer fits into the vat outlet to facilitate efficient draining.

CAPABILITIES

- heating and agitating milk, and holding at an exact temperature for addition of starter culture and rennet
- holding at temperature during coagulation
- cutting and healing the curd
- heating and agitating gradually and accurately to 'scald' the curd
- maintaining the higher temperatures and agitating for a further period
- settling the curd or 'pitching'
- drawing the whey
- milling
- salt addition

FT20A Cheese Making Accessories

Designed to be used with the 10 litre Armfield FT20 Cheese Vat to produce approximately 1kg of finished cheese. Using the accessories, it is possible to carry out the following operations: curd cutting, cheddaring, pH determination (chemical) and pressing.

- Stainless steel horizontal blade curd knife >
- Stainless steel vertical blade curd knife >
- > Stainless steel cheddaring box plus weights up to 10kg (2kg x 5) for initiating the traditional cheddaring process
- > Cheese press with 2 moulds
- > Acid testing kit comprising, including apparatus and chemicals

Specifications

Vat:

Working capacity:	10 litres
Agitator paddle:	Stainless steel
Agitator drive motor:	50W, 0-30rpm
The agitator drive linkag	e is designed to allow the paddle to
traverse the vat at rates	between 0 and 60 times per min.
Perforated strainer:	Stainless steel
Hygienic outlet valve:	'Pinch type'
Control Console:	
As well as containing the	necessary electrical circuitry, the

As well as containii console houses:	ng the h	ecessary electrical circultry, the
Heating water circu	ılator:	0.85kW, temperature range ambient to 80°C set by analog
		dial, (Control accuracy: ±1°C,
		Safety: over-temperature
		cutout), max. flow 10lpm
Agitator paddle va	riable	
speed drive control		Thyristor, DC
Analog output port	ts:	voltage output 0-1Vdc
		proportional to temperature
		and pH (2 channels). Suitable
		for microcomputer connection
		via any appropriate interface,
		e.g. FT20-90IFD-USB
Chart recorder for pH:		Choice of 25, 300, or
		600mm/hr speed.
		Direct 'dotting' on pressure sensitive paper. Scale: 0-14pH
pH/temperature in	dication	
Thermocouple prot		Type K
pH probe:		Food spear type, 0 -14pH
Requirements		
Electrical Supply:	Single I	Phase (see Ordering Codes)
Ordering Codes		
FT20-A:	220-24	0V/1ph/50Hz, (1.2kW)

FT20-B: 120V/1ph/60Hz, (1.2kW) FT20-G: 220-240V/1ph/60Hz, (1.2kW)

Optional Accessories

FT20-90IFD-USB: Data Logging Accessory Requires user supplied PC with USB interface running Windows XP or later.

Shipping specification

Volume: 0.3 m³ Gross weight: 80kg

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Overall dimensions	Vat:	Console:
Height:	0.40m	0.28m
Width:	0.28m	0.37m
Depth:	0.56m	0.38m

The Armfield range includes HTST/UHT/aseptic systems, carbonator/filler/cappers, spray dryers/chillers, multifunction batch processors, ice cream freezers, margarine crystallisers, extractors, edible oils processors and more. For further information about our products and services, or to book a trial at one of our trials facilities, please contact us.