

Laboratory Drum Dryer – FT32

A laboratory-scale drum dryer, designed for food, chemical and pharmaceutical research. The FT32 can be used for both process development and new product research demonstrating various applications of a drum dryer.

**DESIGNED FOR FOOD, CHEMICAL AND PHARMACEUTICAL RESEARCH
ADJUSTABLE FILM THICKNESS AND DRYING RATE**



Supplied assembled, ready for connection to site services

FT32 Control Panel

FT32-20 Vapour extraction system



Description

The Armfield Laboratory Drum Dryer is designed for food, chemical and pharmaceutical research.

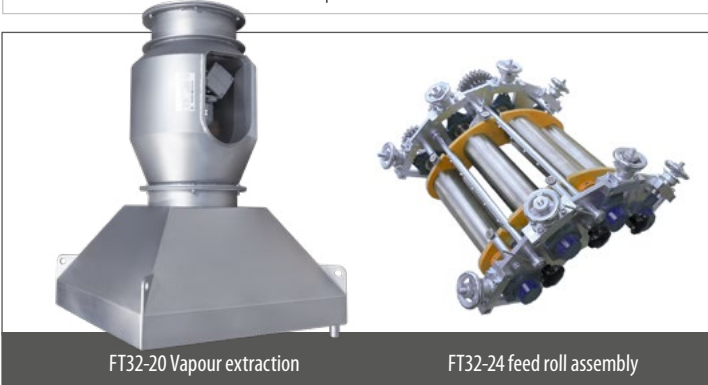
The equipment is supplied fully assembled and ready for connection to site services.

The liquid to be dried is fed into the valley created by the two drums, where it is applied to the drums as they rotate together. The dry product is removed by a knife on each drum.

The unit is constructed from stainless steel, providing hygienic surfaces that are resistant to chemical attack.

The drums are hard chrome plated to ensure maximum heat transfer and the ability to scale up results to production-sized equipment.

The main drive is shaft mounted and its speed is adjusted by an electronic inverter in the control panel.



FT32-20 Vapour extraction

FT32-24 feed roll assembly

Requirements

Scale



► Electricity supply: Three phase (see ordering codes)

FT32-C: 415V / 3ph / 50Hz

FT32-D: 208V / 3ph / 60Hz

FT32-E: 380V / 3ph / 50Hz

FT32-F: 220V / 3ph / 60Hz

Technical specifications

Drum size	300mm diameter x 300mm long
Drying duty	Max material feed rate 10 kg/hr Max water evaporated 20 kg/hr Steam consumption 30 kg/hr
Max Operating temperature	162°C max
Pressure	7 bar max

Overall dimensions

Length	1.00m
Width	1.00m
Height	1.57m

Packed and crated shipping specifications

Volume	1m ³
Weight	500Kg

Applications

- Food stuffs
- Fruit & vegetables
- Yeast
- Brewing
- Baby food
- Instant cereals
- Starches & flours
- Pet foods
- Chemicals
- Detergents
- Dye stuffs
- Ceramic slips
- Pharmaceutical research

Optional Accessories

- FT32-20 Vapour extraction system

This is fitted above the dryer and draws the vapours produced when drying away through the fan and duct assembly

- FT32-21 Feed system

The stainless steel feed tank and variable-speed pump deliver the material to be dried through a flexible pipeline to the dryer feed.

- FT32-24 Feed Roll Assembly

This assembly of 3+1 feed rolls allows you to turn the double drum into a Single Cylinder Feed Roll Dryer, representative of production scale drum dryers.

- FT32-25 Feed System Mixer

A stainless steel, paddle-type mixer mounted on the feed tank on a hinged lid. This enables any particles in the feed to remain in suspension and reduces settling within the feed tank.



Ordering codes

- FT32-C: 415V / 3ph / 50Hz
- FT32-D: 208V / 3ph / 60Hz
- FT32-E: 380V / 3ph / 50Hz
- FT32-F: 220V / 3ph / 60Hz

Armfield standard warranty applies with this product

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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