

FT111

Laboratory Scale Rapid Extractor



Ideally suited to product development purposes, the Armfield FT111 Laboratory Scale Rapid Extractor is used to extract the active constituents from materials in laboratory scale batch sizes.

FEATURES

- *Fast, efficient solid-liquid extraction of active constituents from plants, herbs, fruits and other similar materials*
- *High pressure, room temperature extraction, excellent for sensitive materials*
- *Unaltered natural properties and characteristics of the active constituents, no discolouration or oxidation*
- *Easy to use: microprocessor control and real time display of sequencing and process parameters*
- *Automatic pressure control*
- *Automatic solvent loading and priming*
- *Automatic alarm indication of process anomalies*
- *Highly flexible extraction parameters*

BENEFITS

- *Fast response, results in hours rather than days*
- *Small scale, 5, 10 and 20 litre options*
- *Simple cleaning and maintenance procedures*
- *Uses ethanol, glycerol, water or similar safe solvents*
- *Reproducible results*



MINIATURE SCALE R&D TECHNOLOGY



Head Office:

Armfield Limited
Bridge House
West Street
Ringwood
Hampshire
BH24 1DY
England

Tel:
+44 (0)1425 478781

Fax:
+44 (0)1425 470916

E mail:
sales@armfield.co.uk

URL:
http://www.armfield.co.uk

USA Office:

Armfield Inc.
436 W. Commodore Blvd (#2)
Jackson, NJ 08527

Tel:
(732) 928-3332

Fax:
(732) 928-3542

E mail:
info@armfieldinc.com



Description

The Armfield FT111 uses high pressure and a combination of both static and dynamic extraction phases to achieve a rapid extraction of the active materials with minimum degradation to the product. In the dynamic phases, the solvent is passed through the material providing a forced percolation and agitation.

The process pressure, number of cycles and length of each phase are programmable by the user. In this way the effect of the extraction parameters on the end product can be explored and an optimum set of parameters determined for each product.

The FT111 vessel is loaded with solvent automatically under microprocessor control using a pneumatic solvent pump. Priming of the vessel and pipework is also automatic. Twin pistons (one primary and one slave) are used to generate the pressure in the vessel and to provide the solvent percolation.

Applications

- Natural Food Flavours
- Fruit Flavours
- Herbs and Plant extracts
- Spirit liquors
- Tinctures and infusions
- Herbal extracts and homeopathy
- Cosmetics
- Pharmaceutical

Technical specifications

Vessel volume:	FT111-5L	5L
	FT111-10L	10L
	FT111-20L	20L
	<i>(larger sizes available on special request)</i>	
Total solvent capacity:	6L/12L/24L respectively	
Maximum pressure:	8 bar	
Twin piston		

	Overall Dimensions cms			Shipping Specification	
	H	W	D	Gross weight	Volume
FT111-5L	134	80	60	80kg	1.2m ³
FT111-10L	134	85	60	90kg	1.35m ³
FT111-20L	134	90	60	100kg	1.5m ³

Required Services

Electricity supply: Single phase, 500W
220-240V, 50Hz FT111-A
115V, 60Hz FT111-B

Compressed Air (or N₂) 8bar

Connection for solvent inlet

Mains water supply: (for cleaning)