

# Product announcement

## January 2013

### New : liquid filling machine LF 200

Romaco Packaging is proud to announce the new LF 200 series (pharmaceutical liquid filling machines). The new and innovative Macofar LF 200 series is designed for high quality filling of pharmaceutical, nutraceutical and cosmetics liquid products into a wide range of bottles and vials, from 1 to 500ml, at speeds up to 12000 units per hour.



The product line is composed of several models addressing a wide range of customer requirements in terms of filling speed, filling volume and capping options. Primarily designed for pharmaceutical oral liquid drugs and syrup filling, the line also includes specific models vertically addressing aseptic filling and cosmetic market applications. As many of you have seen, the first LF 200 prototype (FC model) has already been shown at Achema 2012 Expo Show.

### Product Description

Meeting the new pharmaceutical industry cGMP regulations, the Macofar LF range offers both high performance and versatility whilst ensuring accurate and reliable production. This is achieved thanks to multiple specific models ensuring best matching with production requirements and generating optimal overall equipment efficiency. The Macofar LF range, featuring a compact linear configuration, can handle the widest range of product, containers and closures through incorporating:



- Easily adjustable positive transport system over a wide range of container dimensions ensuring very fast size change-over.
- Multiple dosing system and volumetric pump solutions, either in stainless steel or ceramic inner material.
- Cap feeding systems offering improved ergonomics and convenient operator handling.
- Closure stations handling a wide range of caps and under closures, rubber stoppers, including plastic or metal screws, Pilfer Proof caps, drop-pers, sprays and pipettes.
- Set up and recall of production recipes/parameters via HMI panel (human machine interface) allowing fast product change-over and mini-mal down time.

Macofar LF 200 fillers can be seamlessly integrated with labelling machines and Promatic cartonniers thus providing complete packaging lines from a single reliable source.



## LF200 Target Applications & Products

- Oral syrups
- Oral drops
- Nasal sprays
- Sprays in general
- Ear drops
- Eye drops
- Injectables
- Cosmetic fluids

## Container/Stoppering/Capping mix that can be handled by LF 200 series:



- Rubber stopper on glass vial
- Alu/plastic screw cap on glass/plastic bottle/vial
- Pilfer proof Alu/plastic cap on glass/plastic bottle/vial
- Alu/plastic pipette on glass/plastic bottle/vial
- Press on plastic cap on glass/plastic bottle/vial
- Dropper and screw cap on glass/plastic bottle/vial
- Lucas dropper and screw cap on glass/plastic bottle/vial
- Pilfer proof Alu/plastic screw cap and dosing cup on glass/plastic bottle/vial
- Pilfer proof Alu/plastic pipette on glass/plastic bottle/vial
- Spray pumps on glass/plastic bottle/vial
- Various plugs and plungers on glass/plastic bottle/vial

## Availability chart

Model	Type	Project completion	Quoting	First public display
LF 200 SA	STAND ALONE	Completed	now	Salon Emballage (Nov 2012)
LF 200 FC	COMPACT	Completed	now	Achema (Jun 2012)
LF 200 FS	SINGLE CAPPING MODULE	Jan 2013	now	TBD
LF 200 FD	DOUBLE CAPPING MODULE	Feb 2013	now	Pharmintech (Apr 2013)
LF 200 ST	STERILE	Completed	now	P-Mec (Dec 2013)
LF 200 CS	COSMETIC	2014	2014	TBD

**Romaco**  
**Noack / Siebler / Bosspak**  
 Romaco Pharmatechnik GmbH  
 Am Heegwald 11  
 76227 Karlsruhe  
 Germany  
 Tel. +49 (0)721 4804 0  
 Fax +49 (0)721 4804 225  
 info@romaco.com  
 www.romaco.com

**Romaco**  
**Macofar / Promatic / Unipac**  
 Romaco S.r.l.  
 Via Marzabotto, 5  
 40065 Pianoro Bologna  
 Italy  
 Tel. +39 051 6202 611  
 Fax +39 051 6202 600