ROMACO MACOFAR
beyond technology

LF Series from Romaco Macofar

The innovative Romaco Macofar LF Series is designed for high quality filling and closing of pharmaceutical and nutraceutical liquid products into a wide range of glass and plastic bottles at speed of up to 12,000 bottles per hour.

LF Series is a flexible and reliable solution to combine multiple closing systems together with high speed liquid filling.

LF comes in three models according to the requested output, LF 150, LF 200 and LF 250. Each machine model can be completed with up to three capping stations, plus cap with straw/cannula handling unit.

Optionally, the machine can be equipped with Washing in Place/Cleaning in Place circuit. Additionally, LF Series can be manufactured with ATEX rated components upon request.

Highlights

- Customized machine configurations with different filling systems (rotary pumps, piston pumps with gravity valve or pneumatic valve, made of stainless steel or ceramic, peristaltic pumps, mass-flow) and multiple closing heads (screw caps, child-proof caps, crimps, plugs, sprays, droppers, etc.)
- Linear configuration, balcony design
- Positive bottles transport system
- Bottom-up filling
- Electronically driven by means of brushless servomotors
- High operational availability, excellent Overall Equipment Efficiency
- Low cost of ownership and low maintenance needs
- Fast, toolless format changeover
- Very competitive price/ performance rating

Technical Data	LF 150	LF 200	LF 250
Motion	Continuous		
Filling range (ml), single shot, min.–max.*	25 – 450	5 – 250	5 – 70
Speed up to (pieces/hour)*	9,000	12,000	15,000
Bottle range diameter (mm), min.–max.*	25 – 80	20 – 80	20 – 38
Bottle range height (mm), min.–max.*	40 – 180		
Installed power (kW)*	12.6		
Compressed air consumption, in Nl/min*	200		
Compressed air pressure, in bar	6		
L × W × H, in mm (with single capping)*	5,295 × 2,525 × 2,770 approx.		
L × W × H, in mm (with double capping)*	6,090 × 2,525 × 2,770 approx.		
L × W × H, in mm (with double capping + cannulas unit)*	6,691 × 3,020 × 2,770 approx.		
L × W × H, in mm (with tripple capping + cannulas unit)*	7,440 × 3,020 × 2,770 approx.		
Weight approx., in kg*	2,800		

** Depending on product and machine configuration*

Oral syrups and nutraceutical additives

Oral sprays and nasal sprays

Many types of closures

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