

Carbonation, Filling and Capping – FT102XA

This FT102XA has many new updates including:

- ▶ Reduced minimum batch volumes
- ▶ Ability to carbonate highly foaming products
- ▶ Internally mounted chiller to reduce space requirement in your laboratory

**RAPID CARBONATION AND FILLING
INTEGRAL CAPPING AND SEAMING HEAD OPTIONS**



Filling soft and alcoholic beverages into PET, bioplastic, glass and cans with screw capping, crown capping and now an integral can seamer.



Pressure control gauges



Filling & capping heads



Filling control & syrup dosing

Description

The FT102XA is the latest in high accuracy carbonation and filling technology. You can carbonate a premixed product or water and syrup in a post mix configuration.

Filling soft and alcoholic beverages into PET, bioplastic, glass and cans with screw capping, crown capping and now an integral can seamer.

Features/benefits

Features

- ▶ Accurate carbonation levels in excess of 12g/l ($\pm 0.1\text{g/l}$)
- ▶ Cans, PET and glass bottle filling
- ▶ Screw, crown and rip-cap
- ▶ Can seaming
- ▶ CO₂ recycling for environmentally friendly processing
- ▶ Deaeration
- ▶ Vessel purging
- ▶ New vacuum system compatible with high foaming products
- ▶ In-bottle pressure measurement
- ▶ Pre-mixing and post-mixing capability
- ▶ Syrup dosing into the bottle
- ▶ ArmBUS control system with 32 process recipes and flexibility of computer control over PLC control
- ▶ Full data capture through ArmBUS data viewer (exportable to Excel)

Benefits

- ▶ Reduced movement of bottle increases the accuracy and reliability of carbonation
- ▶ On-board high efficiency chiller reduces space required in laboratory
- ▶ Removable side panels and IP65 electrical cabinet for easy access to internal components and spray down when required
- ▶ Can operate as standalone unit or with the continuous feed vessel FT102XA-44
- ▶ No need for an external chiller or ice water supply



Overall dimensions

Length	1.40m
Width	0.75m
Height	1.75m

Packed and created shipping specifications

Volume	3.2m ³
Nett Weight	410kg
Gross Weight	500kg

Technical specifications

Gas content	0-12 g/l
Vessel capacity	15 litres or 30 litres working capacity
Capping Methods	Screw, Crown, Can Lid, Rip-Cap
Gases	CO ₂ , N ₂ or any safe, non-flammable alternatives or mixture
Contact surfaces	316L stainless steel, food grade silicone, PTFE, borosilicate glass and other food safe materials
Operation methods:	Batch or Semi-continuous
Minimum batch volume:	1 - 3 litres (<i>depending on vessel volume</i>)
Maximum vessel pressure:	4 bar

Requirements

Scale



- ▶ **Electricity** - FT102XA-A: 230V 50Hz
FT102XA-G: 230V 60Hz
- ▶ CO₂ supply with manual regulator, 6 bar
- ▶ Nitrogen supply with manual regulator, 6 bar (if used)
- ▶ Compressed air supply with manual regulator, 6 bar
- ▶ Water for chiller on commissioning
- ▶ Drainage

Accessories

- ▶ Screw capping head
- ▶ Crown capping head
- ▶ Can seaming head
- ▶ PET bottle neck support
- ▶ Additional centering rings
- ▶ Syrup dosing
- ▶ Hot filling
- ▶ Continuous operation capability
- ▶ Deaeration
- ▶ At-line oxygen sensor
- ▶ At-line CO₂ measurement

Related products

- ▶ [FT140X: Upstream mixing vessel](#)
- ▶ [FT74XA: HTST and UHT system](#)
- ▶ [FT174XA: HTST and UHT system](#)
- ▶ [FT110DP: Benchtop Rapid Extraction system](#)
- ▶ [FT111X: Solvent Extraction system](#)

Ordering codes

- ▶ FT102XA-15L-A
- ▶ FT102XA-15L-G
- ▶ FT102XA-30L-A
- ▶ FT102XA-30L-G

Armfield standard warranty applies with this product

Knowledge base

- > 30 years expertise in industrial R&D technology
- > 60 years providing engaging engineering teaching equipment

Benefit from our experience, just call or email to discuss your laboratory needs, latest project or application.



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Aftercare

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