

CF200-range: Carbo-Fill®

Carbonates, fills and seals

with great accuracy and reproducibility

Introduction OMVE Carbo-Fill®

The ability to establish precise, repeatable parameters when carbonating in the laboratory, can dramatically improve the speed at which new products can be developed.

The OMVE Carbo-Fill® range of miniature-scale carbonators and fillers offers this facility of reliable, precise and flexible carbonation already more than 20 years.

The Carbo-Fill® simulates the industrial process on a miniature scale. This makes scale-up to pilot or production plants easier.

With the Carbo-Fill® you can already conduct trials with less than one litre. This saves you time and materials.



The OMVE Carbo-Fill® is the most used carbonator on miniature scale.

Features	Benefits
<ul style="list-style-type: none"> Accurate control of carbonation and filling variables 	<ul style="list-style-type: none"> Highly flexible and accurate. Even extreme foamy products can be carbonated and filled.
<ul style="list-style-type: none"> Automatic pressure control 	<ul style="list-style-type: none"> Stable CO₂ level
<ul style="list-style-type: none"> Throughputs of up to 60L/h 	<ul style="list-style-type: none"> Fast filling
<ul style="list-style-type: none"> CO₂ content of up to 10g/L 	<ul style="list-style-type: none"> Reproduces any CO₂ containing product on the market
<ul style="list-style-type: none"> O₂ values < 70ppb 	<ul style="list-style-type: none"> Prevent oxidation
<ul style="list-style-type: none"> Touch screen control 	<ul style="list-style-type: none"> User friendly
<ul style="list-style-type: none"> Optional integrated crown cork closer 	<ul style="list-style-type: none"> Increases accuracy of the CO₂ level
<ul style="list-style-type: none"> Optional integrated screw cap closer 	<ul style="list-style-type: none"> Increases accuracy of the CO₂ level
<ul style="list-style-type: none"> Any type of can or bottle up to 2.0L, can be filled 	<ul style="list-style-type: none"> Fills a wide range of different containers.
<ul style="list-style-type: none"> Carbonates at any temperature between 4°C and 18°C 	<ul style="list-style-type: none"> Very flexible saturation levels
<ul style="list-style-type: none"> Pre-mix and post-mix capability 	<ul style="list-style-type: none"> Increased flexibility
<ul style="list-style-type: none"> Adds protective gases 	<ul style="list-style-type: none"> Filling foamy and still products
<ul style="list-style-type: none"> Automatic cleaning programs 	<ul style="list-style-type: none"> Time saving
<ul style="list-style-type: none"> Fills non-carbonated drinks 	<ul style="list-style-type: none"> Can also be used as a filler/ closer
<ul style="list-style-type: none"> Two-stage cooling 	<ul style="list-style-type: none"> No CO₂ loss during filling

Carbonisation

The Carbo-Fill® is available as a batch or continuous carbonisation unit.

The gas is injected into the product using a special designed injector. This achieves excellent absorption of CO₂ without inducing foam. The product is saturated to the desired level by an automatic pressure and temperature control.



Optional Accessories

- Capper for screw caps
- Combined capper for crown cork and screw caps
- Filling heads
- Hot fill for non-carbonated drinks or post mix connection
- Syrup pump
- Nitrogen connection
- Vacuum system
- Continuous operations (CF210)
- Automatic emptying / filling cooling bath for hot cleaning
- Dual filling heads



Specifications

Process parameters

Max. operational pressure	3 bar
Cooling temperature	4°C, accuracy ± 0.1 °C
Flow rate	60 L/hr
CO ₂ level	Max 10g/L
Filling times	e.g. 0.3L/ 15sec, 0.5L/ 23 sec, 1 L/ 45sec
Cleaning temperature	Max. 85°C

Mechanical parameters

Vessels material	SS 316
Valves and piping material	SS 316
Frame and casing material	SS 304

Overall dimensions

Standard saturation vessel	15 litres
Standard storage vessel (CF 220 only)	10 litres
Height	195cm
Width	113cm
Depth	88cm

Volume	2.0m ³
Gross weight	375kg

Utilities required

Electricity	220-240V/ 1ph/ 50Hz
Water supply	Min 1 bar, max 3.5 bar
CO ₂ supply	Max 3.5 bar
N ₂ supply	Max 3.5 bar

Applications

- Soft drinks
- Beer
- Alcoholic drinks
- Milk
- Juices and cordials
- Coffee and Tea
- Water
- Cream
- Health and nutritional products

Also used for all kinds of tests related to:

- Can testing
- Crown seal testing
- Saturation with unusual gases
- Application of vacuum to lower retained O₂