

CF210 Laboratory Carbo-Fill®

Carbonates, fills and seals

With great accuracy and reproducibility

The Carbo-Fill simulates the industrial process on a miniature scale. This makes scale-up to pilot or production plants easier. Pre-mix carbonation with finished product or post-mix carbonation for only water or with a syrup in the bottle can be carried out.

The Carbo-Fill is easy to install, setup and use. It is touch-screen operated and allows different carbonation and filling scenarios to be set and stored. It also includes a cleaning program enabling the unit to be prepared for another product or formulation with minimum intervention.



Features

- Accurate control of carbonation and filling
- Reproduces any carbonated product on the market
- Throughputs of up to 60L/h
- CO₂ content of up to 11g/L
- O₂ values down to < 70ppb
- Integrated sealers
- up to 4L bottles can be filled
- Very compact with integrated cooling system
- Pre-mix and post-mix capability
- Automatic cleaning programs

Applications

- Water
- Soft drinks
- Beer & Alcoholic drinks
- (Non) dairy drinks
- Juices & Concentrates
- Coffee and Tea

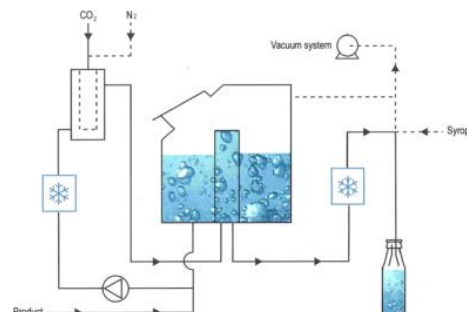
Also used for:

- PET bottle and can testing
- Closures testing

Working Principle

The Carbo-Fill is designed to carbonate pre-mix / post-mix product batches and depending on the options used, handles any type of drink including iced coffee, alcoholic beverages and highly foamy products, such as a beer.

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. Saturation time is approximate 1 liter / minute, after which filling can commence. The entire process is controlled by a PLC (programmable logic controller) which can store up to 50 different operational scenarios giving control over temperature, pressure, fill time etc.



Carbonation

CF



Standard accessories

- Cappers for crown cork, screw cap or cans
- Filling heads and supports for glass, PET or cans
- Direct connection to the filling station adding syrup or just use the filler as counter pressure filler.
- Vacuum on the vessel or in the glass bottles
- Continuous operations for water or product
- Upgrades for cleaning

Specifications

Process parameters

Max. operational pressure	3 bar [43,5psi]
Cooling temperature (internal)	4-6°C [39-42,5°F] , accuracy 0,1°C [°F]
Flow rate	60L/hr
CO ₂ content	Max 11g/L
Cleaning temperature	Max. 80°C [176°C]

Overall dimensions

Standard saturation vessel	15L or 46L
L x W x H	102x77x179cm [40x30,5x70,5"]
Gross weight	375kg

Required utilities

Electricity	220V/1ph/50Hz or 220V/3ph/60Hz
Water	1-3,5bar [14,5-51psi]
Compressed air	6bar [87psi]
CO ₂ supply / Nitrogen supply (optional)	4-5bar [58-72,5psi]

Family Equipment

	CF121	CF210-CF212	CF310
Carbonates Water	✓	✓	✓
Carbonates Finished drink		✓	✓
Counter pressure filler	✓	✓	
Output	low continuous	Low –medium batch - continuous	medium-high batch
Hygienic design	✓	✓	✓
Sterilize system			✓

Why OMVE

- ✓ OMVE is already for **20 years** fully specialized in manufacturing R&D and Pilot plant equipment
- ✓ OMVE is the **preferred supplier** for the leading multinationals world wide.
- ✓ OMVE Systems are designed and manufactures according the **highest industrial standards**
- ✓ OMVE Systems have **2 years** warrantee
- ✓ OMVE Systems are supplied with **CE certification**
- ✓ OMVE offers the **most comprehensive service** in the market.