

CF210 Carbo-Fill®

# Carbonates, fills and seals



With great accuracy and reproducibility

The Carbo-Fill mimics 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. The systems requires only 5L to ensure you can run multiple tests within a smaller timeframe. The CF210 is the all-in-one unit for carbonation testing.

## Features

- Accurate control of carbonation and filling
- Reproduces any carbonated product on the market
- Throughputs of up to 60L/h
- CO<sub>2</sub> content of up to 11g/L
- Integrated sealers
- up to 4L bottles can be filled
- Very compact with integrated cooling system
- Pre-mix and post-mix capability

## Applications

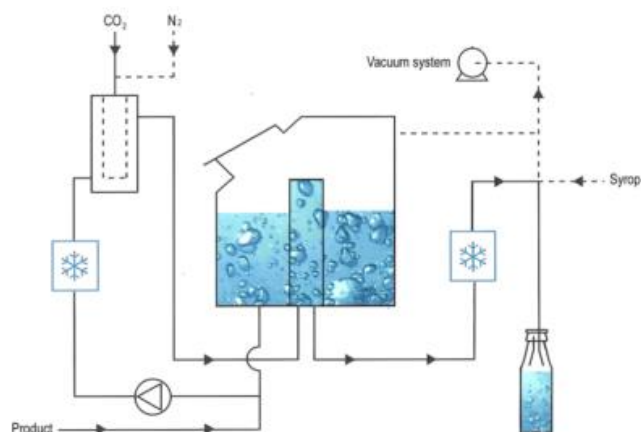
- Water
- Soft drinks
- Beer & Alcoholic drinks
- Juices & Concentrates
- Coffee and Tea

## Also used for:

- PET bottle and can testing
- Closures testing

## Working Principle

The gas is injected into the product using a special designed injector. This achieves excellent absorption of CO<sub>2</sub> 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

						
46 liter tank	15 liter tank	Crown cork sealer	Screw cap sealer	Can seamer	PET bottle neck holder	Vacuum pump

## Specifications

## Process parameters

Max. operational pressure	3 bar [43,5psi]
Cooling temperature (internal)	4-6°C [39-42,5°F] accuracy 0,1°C [0,18°F]
Flow rate	60L/h
CO <sub>2</sub> content	Max 11g/L
Cleaning temperature	Max. 80°C [176°C]

## Overall dimensions

Standard saturation vessel	15L or 46L
L x W x H	102x77x177cm [40x30,5x70,5"]
Gross weight	375kg [827lbs]

## Required utilities

Electricity	200-240Vac /1ph+N+E /50Hz/ 16A or 200-240Vac /2ph+E /60Hz/16A
Water	1-3,5bar [14,5-51psi]
Compressed air	4-7bar [58-101,5psi]
CO <sub>2</sub> supply / Nitrogen supply (optional)	4-5bar [58-72,5psi]
Drains	needed

## Family Equipment

	CF121	CF210	CF211 / CF212	CF213 / CF214	CF310
Carbonates Water	✓	✓	✓	✓	✓
Carbonates Finished drink		✓	✓	✓	✓
Counter pressure filler	✓	✓	✓	✓	
Output* (max.)	30L/h	60L/h	60 / 90L/h	60 / 90L/h	n.a.
Hygienic design	✓	✓	✓	✓	✓
Sterilize system					✓
Integ. can seamer				✓	

\*based on filling carbonated water

## Why OMVE

- ✓ Since 1993, we have **specialized** in supplying manufacturing R&D and pilot-plant equipment.
- ✓ OMVE is a **preferred supplier** to leading multinationals worldwide.
- ✓ OMVE systems are designed and manufactured according to the **highest industry standards**.
- ✓ OMVE systems come with a **two-year** warranty.
- ✓ OMVE systems carry **CE certification**.