

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

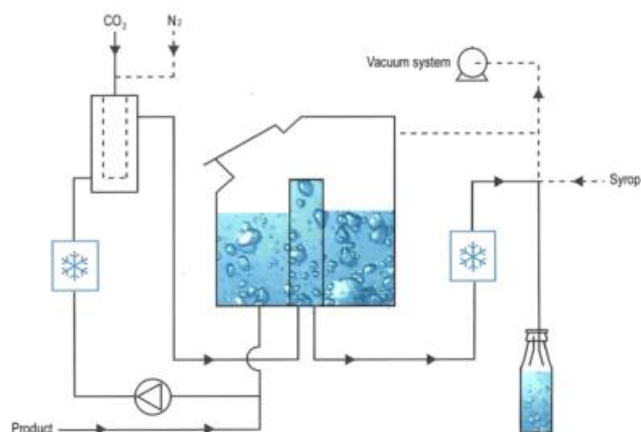
- Water
- Soft drinks
- Beer & Alcoholic drinks
- Juices & Concentrates
- Coffee and Tea

## 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<br>liter tank  | 15<br>liter tank  | Crown cork sealer   | Screw cap sealer  | Can seamer  | PET bottle<br>neck holder   | Vacuum<br>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/50Hz or 2ph/60Hz |
| 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

- ✓ OMVE is fully **specialized** in manufacturing R&D and Pilot plant equipment since 1993
- ✓ OMVE is the **preferred supplier** for the leading multinationals worldwide.
- ✓ 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.