

CF121 Bench-Top Carbo-Fill®

# Carbonates and fills water

With great accuracy and reproducibility



The Bench-Top Carbo-Fill® is capable of injecting accurately CO<sub>2</sub> content into water at a set level. The level can be set between 4 and 11g/L. After the user doses the syrup/concentrate in the packaging (post-mix), the Bench-Top Carbo-Fill fills then the packaging automatically under controlled conditions. With an accuracy of +/- 0.2g/L of CO<sub>2</sub> content, the CF121 is ideal for the quick production of different recipes at different CO<sub>2</sub> content. Depending on the size of container and CO<sub>2</sub> level, the maximum output of the CF121 is approximate 25L/h (based on 50x 0,5-liter PET bottles).

## Unique Features

- Accurate control of desired level of carbonation
- Automatic pressure control
- CO<sub>2</sub> content adjustable from 4 to 11g/L
- Easy operation with an Intuitive 4-button control
- Counter pressure filling
- CO<sub>2</sub> flushing of bottle
- Any type of bottle up to 1,5L can be filled
- Compact design
- Internal cooler
- Higher capacity with additional cooler

## Applications

- Water
- Post-mix drinks
  - Syrups
  - Concentrates

## Working Principle

The gas injected into the water uses a specially designed saturation technique, which enables fast and equally absorption of CO<sub>2</sub>. An integrated cooler cools the water in the system. The (customer) water is circulated and saturated to the desired level of CO<sub>2</sub> by an automatic pressure – temperature control. The Bench-Top Carbo-Fill carbonates water up to 11g/L.

The bottle counter pressure filling sequence consists of:

- Flushing the bottle with CO<sub>2</sub> to remove air
- Pressurizing the bottle
- Filling the bottle with carbonated water
- Resting time (minimize CO<sub>2</sub> loss)
- De-pressurizing the bottle
- Ready to close - manual

Carbonation

CF

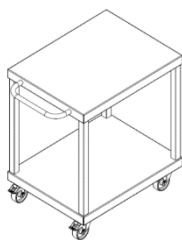


## Standard accessories

- Different filling head for glass/PET bottles or cans
- PET bottle neck Support / carrying strap, used to level up PET bottles
- Stainless steel trolley
- External tank of 15 and 20L for drinkable water (when tap water or water from the network is not suitable).
- Additional Pre cooler to cool down the water at 4°C / 39°F. The pre cooler increases the yield / performance.



PET bottle neck support



Stainless Steel trolley



External tank of 15 and 20L for drinkable water

## Specifications

### Process parameters

Cooling temperature	6°C [43°F]
CO <sub>2</sub> content	5-11g/L (displayed) Equivalent to 2,5 – 5,5 v/v adjustable in steps of 0.5g/L

### Overall dimensions

L x W x H	53 x 67 x 92cm [20,9 x 26,4 x 36,2"]
Gross weight	116kg [255lbs]

### Utilities required

Electricity	200-240Vac /1ph+N/50Hz or 2ph /60Hz
Water	Min. 1bar [14,5psi], max 3,5bar [ 50psi]
Compressed air	4-6bar [58-85psi]
CO <sub>2</sub> supply	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 / 105L/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.