

# Carbonates & Fills Water for RTD Post-Mix Drinks

## CF121 Bench-Top Carbo-Fill®

### Precise Water Carbonation for Laboratory and R&D Applications

The CF121 Bench-Top Carbo-Fill® is the ultimate solution for precise water carbonation, catering to various applications. Its compact design and user-friendly interface make it the preferred choice for entry-level carbonation needs in R&D labs worldwide, from club soda to fizzy water, seltzer water, sparkling water, and post-mix drinks.



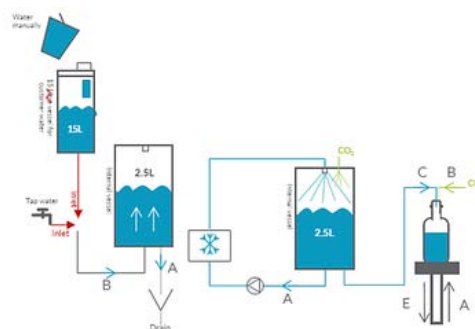
Food developers can benefit from the CF121 to test approximately 25-30L/h of product in continuous or batch settings, depending on the container size they select and the level of CO<sub>2</sub> (4-11g/L) used.

The CF121 carbonator can handle multiple packaging types, including PET bottles, glass bottles and cans. Advanced features include flushing the bottles with CO<sub>2</sub> before filling to remove oxygen, ensuring product freshness and shelf-life extension.

Experience the OMVE CF121 Bench-Top Carbo-Fill® efficiency and precision, designed to meet the diverse needs of laboratory and R&D applications and accelerate the development of innovative beverage solutions.

## Features & Benefits

- Accurate carbonation control
- Intuitive operation
- Versatile packaging size compatibility
- Built-in internal cooler



## Working Principle

An integrated chiller cools the water used in the system, a crucial step to ensure optimal CO<sub>2</sub> absorption. Once cooled, the water is circulated through the system and undergoes atomization under high-pressure CO<sub>2</sub>. This specially designed saturation technique enables fast and uniform absorption of CO<sub>2</sub> into the water, with the CO<sub>2</sub> level automatically regulated through precise pressure and temperature controls. During the filling cycle, the packaging is positioned at the filling point and flushed with CO<sub>2</sub>. The packaging is pressurized and filled with the carbonated water, followed by depressurization, after which the packaging travels down the line for retrieval.



## Applications

- Club soda
- Fizzy water
- Seltzer water
- Sparkling water
- Post mix drinks (carbonated water + syrup)

## Optional Accessories

- Multiple filling heads for small to large mouth openings in cans, glass or PET bottles
- Various packaging neck holder for PET bottles
- Can holder to prevent deforming the can during filling process
- Center rings and adapter pieces to ensure stability and speed up the process
- Customer-oriented filling heads and filling accessories
- External 20L tank for using prepared or drinking water, suitable when tap or city water is not ideal
- Additional pre-cooler to chill water to 4°C (39°F) to shorten processing time
- A trolley to effortlessly move the equipment

## Specifications

Product Code	
Cooling temperature (internal)	6°C [43°F]
Pre-cooler (optional)	4°C [39°F]
CO <sub>2</sub> content	4-11g/L (displayed) equivalent to 2,5-5,5 v/v adjustable in steps of 0.5g/L
Weights & Dimensions	
Weight	530x670x920mm [20,9x26,4x36,2"]
L x W x H*	116kg [255lbs]
Required utilities	
Electrical supply	200-240Vac/ 1ph+N+E/ 50Hz/ 16A or 200-240 Vac/ 2ph+E/ 60Hz 16A
Water supply	Min. 2bar [58-101,5psi]
Compressed air	4-7bar [58-101,5psi]
CO <sub>2</sub> supply	4-5bar [58-72,5psi]
Drains	Required



CF121 on stainless steel trolley with chiller & external 20L vessel

OMVE Netherlands B.V.  
 Gessel 61  
 3454 MZ, De Meern  
 The Netherlands  
 Tel +31 30 241 00 70  
 sales@omve.com  
 omve.com

OMVE Americas Inc.  
 251 Main Street East, Suite L01  
 Milton, ON L9T 1P1  
 Canada  
 Tel +1 416 986 8442  
 sales@omve.com  
 omve.com

Lab & Pilot Equipment

