

CFA 2

Carbon Dioxide Filling Unit

Exact filling of CO₂ from the liquid phase

Adjustable filling output through speed-controlled motor

Digital scales with electronic cut-out

All types of internal CO₂ cartridges, external CO₂ bottles and CO₂ fire extinguishers from 2 to 6 kg can be filled using the CFA 2 Carbon Dioxide Filling Unit.

CO₂ bottles up to 50 kg can also be filled with separate floor scales (accessory, Art. No. 186912).

For supply purposes the unit can be connected to CO₂ bottles with an ascending pipe or to CO₂ medium pressure tanks (approx. 50 bar). The unit inlet contains a special steel filter which protects the pump from impurities from the CO₂ storage bottles or the CO₂ tank.

Using the CFA 2 filling unit internal CO₂ cartridges are fixed and filled in the F1M universal filling head, external CO₂ bottles in the F2 filling head (accessory) or carbon dioxide fire extinguishers from 2 to 6 kg on the F3 filling head (accessory).

The filling weight is programmed into the digital scales and the scales are tared at the touch of a button. With this weighting technique the filling process is exact.

By pressing the push button the solenoid valve is opened and the CO₂ cartridge, CO₂ bottle or the CO₂ fire extinguisher is filled with a speed-controlled plunger pump.

The filling process is switched off automatically when the filling weight is achieved. The valve of the filled CO₂ container must be closed manually

After having vented the filling head with a second solenoid valve the filled CO₂ cartridge, CO₂ bottle or CO₂ fire extinguisher can be removed.



Fig. 1: The CFA 2 is a carbon dioxide filling unit with adjustable filling output and a speed-controlled motor. The F1M universal filling head is mounted on an electronic weighing cell. The control panel is ergonomically located for comfort and convenience.

During the working cycle the pressure in the CO₂ supply line can be checked using a manometer and the pressure in the filling line can be read using a second manometer. During the filling process the increase in the CO₂ filling weight can be checked using the scales and can be regulated via the speed. Thus, it is possible to achieve the programmed final weight exactly.

The CFA 2 can be prepared for the connection of an external electronic scales platform (accessory). Therewith the filling of 50 kg CO₂ bottles on separate floor scales is possible.

Also a label printer can be attached to the machine. The printed labels contain filling date and time, tare weight, net weight, gross weight and the company name of the bottler.



Fig. 2: Label Printer



Fig. 3: The F1M universal filling head for internal CO₂ cartridges with universal attachment flange and the CO₂ connection hose for supplying the unit are supplied as standard items.

Accessories (extra charge):



Fig. 4: F2 filling head for external CO₂ bottles with turning valve up to 300 g
Art. No. 186103



Fig. 5: F3 filling head for 2 to 6 kg CO₂ fire extinguishers
Art. No. 186104

Fig. 10:
Digital floor scales platform with automatic cut-out, including filling valve, high pressure hose and drop-down ramp (without bottle)
Art. No. 186912



Fig. 6 (examples):
Locking inserts for various CO₂ cartridges (please state make and model of the fire extinguisher)
Art. No. 186105



Fig. 7 (examples):
Attachment flange for various CO₂ cartridges (please state make and model of the fire extinguisher)
Art. No. 186114

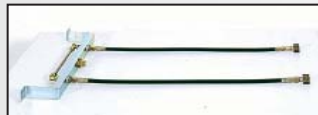


Fig. 8 (example):
Collecting line for connecting 2 to a maximum of 6 CO₂ storage bottles (with ascending pipes)
Art. No. 186106
(per connector)



Fig. 9:
Holder for CO₂ storage bottle
Art. No. 186330



Option (extra charge):

Label printer
(see Fig. 2)
Art. No. 187275
Available on request

Technical data for the CFA 2

(EN ISO 12100-1, EN ISO 12100-2, EN 60204)

Art. No. 186125



Protection Class: IP54

Art. No. 186112

Prepared for connecting the floor scales platform

Filling output: 4 kg/min

Cut-out pressure: 130 bar

Mechanical safety valves: 2 x 150 bar

Electric motor:
230 V, 50 Hz, 1.5 kW, 1400 min⁻¹
Special voltages and other frequencies are available on request

5 m cable feed, oil and acid-resistant:
H07RN-F 3 G 1.5 mm²

Weight: 141 kg

Dimensions:
1070 mm height
1320 mm width
460 mm depth

Colour:
RAL 7032 pebble grey