CFA 1
Carbon Dioxide Filling Unit

Precise filling of small and large CO_2 cartridges and CO_2 bottles

Swift handling of CO_2 in the liquid phase

Automatic cut-out when filling weight is reached

Fig. 1: ***The CFA 1 is a carbon dioxide filling unit which can be operated very precisely with respect to the filling weight, as the CO_2 is only filled in the liquid phase and is switched off automatically when the filling weight is attained. Furthermore, these units are cost-effective to operate, as all operations can be dealt with precisely and within a short time. The operational controls are laid out clearly. The low noise level of the unit during operation and the robustness of the special steel housing are also particularly advantageous.***

All types of internal CO_2 cartridges, external CO_2 bottles and CO_2 fire extinguishers up to 6 kg can be filled using the CFA 1 Carbon Dioxide Filling Unit with integrated digital scales.

As it is possible to reduce the filling output with a special control installed as a standard feature, small cartridges can also be filled exactly with the correct weight.

For liquid CO_2 supply purposes the unit can be connected to CO_2 bottles with ascending pipes or to a CO_2 medium pressure tank (approx. 50 bar).

The unit inlet contains a special steel filter, which protects the pump from impurities from the CO_2 storage bottles or the CO_2 tank.

Using the CFA 1 Filling Unit internal CO_2 cartridges are filled with the F1 universal filling head, external CO_2 bottles with the F2 filling head (accessory) or carbon dioxide fire extinguishers from 2 to 6 kg with the F3 filling head (accessory).

Fixing of the CO_2 cartridge is dealt with quickly by means of the lockable rough adjustment and the fine adjustment via a threaded spindle with a turning handle.

With the CFA 1 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.

The container is filled with the plunger pump by opening a ball valve and pressing the electric push button.

When the filling weight is achieved the filling process is switched off automatically.

The valve of the filled container and the ball valve must be closed. The filing head is vented with the second ball valve. The filled container can be removed.

During the working cycle the pressure in the CO_2 storage container or tank can be checked using a manometer and the pressure in the filling line using a second manometer.

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Fig. 2: ***The F1 universal filling head for internal CO_2 cartridges and the CO_2 connection hose for supplying the unit are supplied as standard items.***

Accessories (extra charge):

Fig. 3: F2 filling head for external CO_2 bottles with turning valve up to 300 g
Art. No. 186103

Fig. 4: F3 filling head for 2 to 6 kg CO2 fire extinguishers
Art. No. 186104

Fig. 5 (examples):
Locking inserts for various CO_2 cartridges (please state make and model of the fire extinguisher)
Art. No. 186105

Fig. 6 (examples):
Attachment flanges for various CO_2 cartridges (please state make and model of the fire extinguisher)
Art. No. 186108

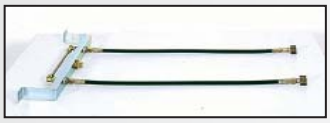

Fig. 7 (example):
Collecting line for connecting 2 to a maximum of 6 CO_2 storage bottles
(with ascending pipes)
Art. No. 186106
(per connector)

Fig. 8: Holder for CO_2 storage bottle
Art. No. 186330

Work bench
Art. No. 186331

Technical data for the CFA 1

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

Art. No. 186122

Protection Class: IP54

Filling output: 2.5 kg/min

Mechanical safety valve: 130 bar

Electric motor:
230 V, 50 Hz, 0.75 kW, 1440 min^{-1}
Special voltages and other frequencies available on request

5 m cable feed, oil and acid-resistant 230 V: H07RN-F 3 G 1.5 mm^2

Weight: 80 kg

Dimensions:
500 mm height
985 mm width
425 mm depth

Special steel housing

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