

CFA 3 Carbon Dioxide Filling Unit

**Filling unit for filling from
the liquid phase**

High filling output

For CO₂ fire extinguishers and CO₂ bottles

The CFA 3 Carbon Dioxide Filling Unit is exclusively designed for filling CO₂ fire extinguishers or CO₂ bottles from medium-pressure tanks with an operating pressure of approx. 50 bar.

The unit inlet contains a special steel filter which protects the pump from impurities from the CO₂ medium-pressure tank.

Digital scales with an automatic cut-out which are supplied with a bottle holder and a drop-down ramp are used with the CFA 3.

The unit is connected to the CO₂ container to be filled via a filling valve. After the filling weight has been programmed and the scales are tared, the bottle valve and the filling valve are opened and the unit is started.

When the programmed filling weight has been reached the filling process is switched off automatically. The valve of the filled container must be closed. Then the filling valve is closed, vented and unscrewed. The filled container can be removed.

The CO₂ initial pressure, the filling pressure and the filling weight can be monitored on the control stand.



Fig. 1: CO₂ fire extinguishers or CO₂ bottles from 6 – 50 kg can be filled with the CFA 3 Carbon Dioxide Filling Unit.

Using this unit the CO₂ filling operation is very precise in terms of weight, as an automatic cut-out is activated when the filling weight has been reached. Furthermore, this unit is cost-effective to operate, as there are only short setup times and short working cycles.

The unit has a low rate of wear and tear and requires little maintenance.

Option (extra charge):

Switch unit with 3 freely programmable cut-out weights

Art. No. 186171

Accessories (extra charge):

Fast-fill connection

Art. No. 187217

**Technical data for CFA 3
(EN ISO 12100-1, EN ISO 12100-2, EN 60204)**

Art. No. 186161



Protection Class: IP54

Filling output: maximum 6.5 kg/min, continuously variable

Cut-out pressure: 130 bar
Mechanical safety valves: 2 x 150 bar

Electric motor:
400 V, 50 Hz, 2.2 kW, 1400 min⁻¹

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

Digital scales: 0 - 150 kg

Dimensions
Control stand:
1160 mm height
695 mm width
620 mm depth

Weight: 135 kg

Colour: RAL 7032 pebble grey

Dimensions
Floor scales
with drop-down ramp:
1000 mm height
580 mm width
1150 mm depth

Weight: 40 kg

CFA 4 Carbon Dioxide Filling Unit

Carbon dioxide filling unit in modular design

Filling unit for filling from the liquid phase

For CO₂ fire extinguishers and CO₂ bottles

The CFA 4 Carbon Dioxide Filling Unit is exclusively designed for filling CO₂ fire extinguishers or CO₂ bottles from medium-pressure tanks with an operating pressure of approx. 50 bar.

It is a carbon dioxide filling unit with a pump stand, a control panel on a stand and electronic floor scales.

The modular design allows the user to mount the pump stand close to the CO₂ medium-pressure tank, away from the control panel and the scales.

The control panel is connected to the pump stand via a supply line.

The CO₂ bottle to be filled is placed on the scales and connected to the filling line of the control panel via the filling valve. After opening all the CO₂ supply lines the filling process is started on the control panel.

The filling process is switched off automatically when the programmed filling weight has been reached. The valve of the filled container must be closed. Then the filling valve is closed, vented and unscrewed. The filled container can be removed.



Figure 2: The CFA 4 carbon dioxide filling system can be used to fill CO₂ fire extinguishers or 6 – 50 kg CO₂ bottles. Due to the modular concept, customer-specific solutions regarding the local conditions are possible with the CFA 4.

Option (extra charge):

Switch unit with 3 freely programmable cut-out weights
Art. No. 186171

Accessories (extra charge):

Fast-fill connection
Art. No. 187217

Technical data for CFA 4

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



Protection Class: IP54

Art. No. 186190

Filling output: 6.5 kg/min

Art. No. 186195

Filling output: 12.5 kg/min

Cut-out pressure: 130 bar

Mechanical safety valves: 2 x 150 bar

Electric motor:

Art. No. 186190

400 V, 50 Hz, 2.2 kW, 1410 min⁻¹

Art. No. 186195

400 V, 50 Hz, 4 kW, 1435 min⁻¹

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

Digital scales: 0 - 150 kg

Dimensions and weights:

	Pump stand	Control panel with stand	Floor scales with drop-down ramp
Height mm:	565	1035	1000
Width mm:	845	500	580
Depth mm:	555	505	1150
Weight kg:		37	40

Weight kg: 110 (Art. No. 186190)

Weight kg: 136 (Art. No. 186195)

Colour: RAL 7032 pebble grey