

Carbon dioxide filling units CFA | Page 51

## **Table of Contents:**

# Carbon dioxide filling units CFA

Description	Page
Table of Contents: CFA	50 - 51
CFA overview of types	52 - 53
CFA Basic	54 - 55
CFA Mobil	56 - 57
CFA 1	58 - 59
CFA 2	60 - 61
CFA 3	62 - 63
CFA 4	64 - 65
CFA 5	66 - 67
CFA 5-2W	68 - 69
Options / Accessories	70 - 71

# Carbon dioxide filling units CFA





# For every filling application the right solution. Carbon dioxide filling units CFA

			CO <sub>2</sub> containers to be filled:						
			Interior cartridges of fire extinguishers	Soda cartridges up to approx. 1 kg (may require additional adapter)	Exterior CO <sub>2</sub> cylinders of fire extinguishers or CO <sub>2</sub> cylinders with turning valve up to 2 kg	CO <sub>2</sub> fire extinguishers or CO <sub>2</sub> cylinders from 2 to 6 kg	CO <sub>2</sub> fire extinguishers or CO <sub>2</sub> cylinders > 6 kg	Large CO <sub>2</sub> cylinders up to 50 kg	
	CO <sub>2</sub> supply:	Filling machine:	MIII						
y y		CFA BASIC (2.4 kg/min)	only with suppl. unit	with scales or suppl. unit	with scales or suppl. unit & F2	with scales or suppl. unit & F3	with floor scales	with floor scales	
		CFA BASIC (4.5 kg/min)	only with suppl. unit	with scales or suppl. unit	with scales or suppl. unit & F2	with scales or suppl. unit & F3	with floor scales	with floor scales	
	Single cylinder 30-50 kg with riser pipe or cylinder rack or medium pressure tank without return inlet	CFA MOBIL	only with suppl. unit	with scales or suppl. unit	with scales or suppl. unit & F2	with scales or suppl. unit & F3	with floor scales	with floor scales	
		CFA 1	yes	yes	with filling head F2	with filling head F3	with floor scales & F4	with floor scales & F4	
ARBO — CO-CRI		CFA 2	yes	yes	with filling head F2	with filling head F3	with floor scales platform	with floor scales platfo	
		CFA 3	no	no	no	yes	yes	yes	
the second of th	or								
	Medium pressure tank with return inlet	<b>CFA 4</b> (6.5 kg/min)	no	no	no	yes	yes	yes	
		<b>CFA 4</b> (12.5 kg/min)	no	no	no	yes	yes	yes	
	or								
	Cryogenic low pressure tank with return inlet	<b>CFA 5</b> (5 kg/min)	no	no	no	yes	yes	yes	
		<b>CFA 5</b> (8 kg/min)	no	no	no	yes	yes	yes	
		<b>CFA 5</b> (15 kg/min)	no	no	no	yes	yes	yes	
		CFA 5-2W	no	no	no	yes	yes	yes	



















CFA 5-2W

FA Basic • CFA Mobil • CFA 1 • CFA 2 • CFA 3 CFA 4 • CFA 5

Page 52 | Carbon dioxide filling units CFA



The **CFA BASIC** is a versatile **carbon dioxide filling unit** for all CO<sub>2</sub> cylinders from 2-30 kg. It is a reduced variant of the **CFA MOBILE** and has, for instance, a simple housing. This makes it a particularly cost-effective system with an unbeatable price at this level.

 The filling armature of the CFA Basic has a filling and release ball valve.



pandability possibility for meeting future increasing requirements.

Art. No. 186155
 Supplementary Unit Digital II
 with automatic deactivating
 scales and filling head F1 for
 interior CO<sub>2</sub> cartridges.

VERSATILE

## Many other filling applications

Our additional equipment for almost any requirement makes many other filling applications possible. For  $\mathrm{CO}_2$  supply you can connect the filling machine to  $\mathrm{CO}_2$  cylinders,  $\mathrm{CO}_2$  cylinder bundles with riser pipe or to the liquid phase of  $\mathrm{CO}_2$  medium pressure tanks (approx. 50 bar).



• Art. No. 186103 Filling head F2 for exterior CO<sub>2</sub> cylinders with turning valve up to 300 g.

• Art. No. 186104 Filling head F3 for CO<sub>2</sub> fire extinguishers, 2 - 6 kg.

A high-grade steel filter at the system inlet protects the pump from impurities from the  $CO_2$  storage containers. Interior  $CO_2$  cartridges, exterior  $CO_2$  cylinders and  $CO_2$  fire extinguishers up to 6 kg can be filled with the supplementary unit (**Art. No. 186155**) available as accessory.

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CFA Basic

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

Art.-No. 186196 filling power: 4.5 kg/min

#### Art.-No. 186198 filling power: 2,4 kg/min

Electric motor: 230 V, 50 Hz, 1.1 kW, 1400 min<sup>-1</sup>. Special voltages and other frequencies on request.

Electric cable feed line: 5 m cable feed line H07RN-F 3 G 1.5 mm², oil and acid resistant. Filling power: 2.4 kg/min or 4.5 kg/min.

Mech. Safety valve: 130 bar.

Dimensions:

Height [mm]: 300. Width [mm]: 500.

Depth [mm]: 425.

Weight [kg]: 42.

Colour: Silver-grey. IP rate: IP54



The CFA MOBIL is a versatile carbon dioxide filling unit for all CO<sub>2</sub> cylinders from 2-30 kg. Thanks to its modular design, it can easily be expanded when requirements increase. The system has a high-quality pump from German production, which is optimised for CO<sub>2</sub> use.

• The filling armature of the CFA MOBIL has a filling and release ball valve.



A particular advantage is the subsequent expandability possibility

to meet increasing requirements.

• Art. No. 186155 Supplementary unit Digital II with automatically switching off of scales and filling head F1 for interior CO<sub>2</sub> cartridges.

### Many other filling applications

FOR STATIONARY AND MOBILE USE

Our additional equipment for almost any requirement makes many other filling applications possible. For CO<sub>2</sub> supply you can connect the system to CO<sub>2</sub> cylinders with riser pipe, CO<sub>2</sub> cylinder bundles or CO<sub>2</sub> medium pressure tanks (approx. 50 bar).



• Art. No. 186103 Filling head F2 for exterior CO<sub>2</sub> cylinders with turning valve up to 300 g.

• Art. No. 186104 Filling head F3 for CO. fire extinguishers, 2 - 6 kg.

A high-grade steel filter at the system inlet protects the pump from impurities from the CO<sub>2</sub> storage containers. Interior CO<sub>2</sub> cartridges, exterior CO<sub>2</sub> cylinders and CO<sub>2</sub> fire extinguishers up to 6 kg can be filled with the supplementary units (Art. No. 186155) available as accessory.

**CFA MOBIL** 

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



Art.-No. 186141 (E) **Electric motor:** 230 V, 50 Hz, 1.1 kW, 1440

Special voltages and other frequencies on

request.

Electric cable feed line:

5 m cable feed line H07RN-F 3 G 1.5 mm<sup>2</sup>, oil and acid resistant.

Filling power: 3.5 kg/min.

Mech. Safety valve: 130 bar.

Height [mm]: 310.

Width [mm]: 560.

Depth [mm]: 360.

Weight [kg]: 42.

Colour: Grey, hammer finish.

IP rate: IP54





• The CFA 1 is an accurate and safe carbon dioxide filling unit for small and medium-sized CO<sub>2</sub> containers. Working with this system is economical because all working processes are precise and can be completed in a short amount of time.

The controls are clearly configured. A particular advantage is the low operating noise of the system and the sturdiness of the highgrade steel housing.

# CFA 1 Carbon dioxide filling unit Compact, accurate and flexible

- PRECISE, SAFE AND LOW-COST FILLING SMALL AND MEDIUM-SIZED CO, CONTAINERS
- DIGITAL SCALES WITH ELECTRICAL DEACTIVATION **UPON REACHING THE FILLING WEIGHT**



• Art. No. 186103

Filling head F2 for exterior CO, cylinders with turning valve up to 300 g.



• Art. No. 186104

Filling head F3 for 2 to 6 kg CO, fire extinguishers, e.g. 2 kg.



• Art.-No. 186104

Füllkopf F3 für 2 bis 6 kg CO<sub>2</sub>-Feuerlöscher, z. B. 6 kg.



(E)

Our CFA 1 is very compact as well as extremely flexible. It is used to fill small and medium-sized CO<sub>0</sub> containers: interior CO2 cartridges, exterior CO2 cylinders with turning valve as well as CO2 fire extinguishers or CO<sub>2</sub> cylinders up to 6 kg. The universal filling head F1 is used for interior CO<sub>2</sub> cartridges, the filling head F2 as an accessory for exterior CO2 cylinders with turning valve, and the filling head F3 as an accessory for CO<sub>2</sub> fire extinguishers and cylinders from 2 to 6 kg. The CFA 1 has an integrated digital scales.

STRENGTHS AT A GLANCE



### Clamp in next to no time

You can ensure the supply of the system via CO<sub>2</sub> cylinders with riser pipe, CO<sub>2</sub> cylinder bundles or CO<sub>2</sub> medium pressure tanks (approx. 50 bar). A high-grade steel filter at the system inlet protects the pump from impurities from storage bottles or the CO<sub>2</sub> tank.

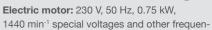
The CO<sub>2</sub> cartridge is mounted in a trice thanks to the ratcheting rough adjustment and fine adjustment via threaded spindle with turning handle. • The universal filling head F1 for interior CO. cartridges with standard flange attachment No.1 and the CO<sub>2</sub> connection hose for supplying the system are included in the product range.

#### Always the exact filling weight

With the standard filling power control you can achieve the exact filling weight even with small cartridges. This can be programmed on the digital scales. The scales are tared at the press of a button. Start the filling process by opening a ball valve and pressing the pushbutton; the filling process ends automatically when the filling weight is reached. You only have to close the valve of the filled container and the filling ball valve. Filling pressure and input pressure are monitored at the two manometers of the system.

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

#### Art.-No. 186122



### Electric cable feed line:

5 m cable feed line 230 V: H07RN-F 3 G 1.5 mm<sup>2</sup>, oil and acid resistant.

### Filling power: 2.5 kg/min.

Mech. safety valves: 130 bar.

#### Dimensions:

Height [mm]: 500.

Width [mm]: 985.

Depth [mm]: 425.

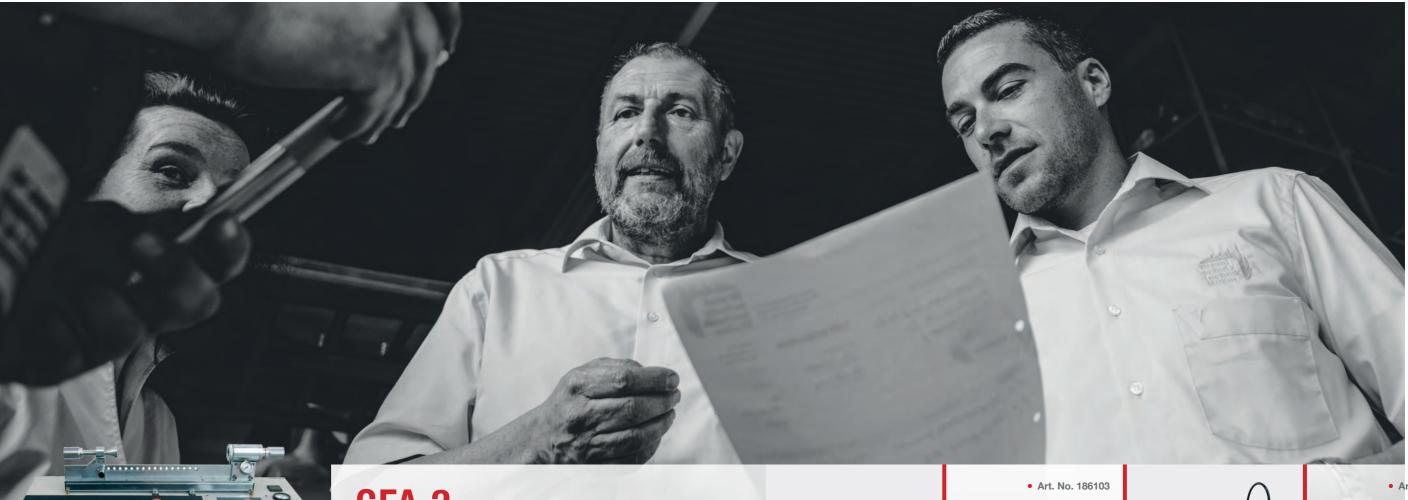
Weight [kg]: 80.

Housing: High-grade steel.

IP rate: IP54

Page 58 | Carbon dioxide filling units CFA Accessories can be found on pages 70-71





CFA 2 Carbon dioxide filling unit One solution for all containers

STRENGTHS AT A GLANCE

- CONTINUOUSLY ADJUSTABLE FILLING POWER THROUGH SPEED-CONTROLLED MOTOR
- DIGITAL SCALES WITH ELECTRICAL DEACTIVATION **UPON REACHING THE FILLING WEIGHT**

Filling head F2 for exterior CO<sub>2</sub> cylinders with turning valve up to approx. 300 g.



• The filling head F1M for interior CO<sub>2</sub> cartridges with standard flange attachment No. 1 and the CO<sub>2</sub> connection hose for supplying the system are included in the

• Art. No. 186104 Filling head F3 for CO, fire extin-

guishers up to 6 kg, e.g. 2 kg.



Filling head F3 for CO, fire extinguishers up to 6 kg, e.g. 6 kg.



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The CFA 2 is our all-round talent: Apart from interior CO<sub>2</sub> cartridges, exterior CO<sub>2</sub> cylinders with turning valve and CO<sub>2</sub> fire extinguishers or CO<sub>2</sub> cylinders up to 6 kg, it also fills CO<sub>2</sub> cylinders up to 50 kg with a separate floor scales platform. The F1M universal filling head is used for interior CO<sub>2</sub> cartridges, the F2 filling head as an accessory for exterior CO<sub>2</sub> cylinders with turning valve, while the F3 filling head is useful as an accessory for CO<sub>2</sub> fire extinguishers and cylinders up to 6 kg.

• The CFA 2 can be supplemented by a thermal transfer printer for PE film labels. (Option /surcharge)



• The CFA 2 is a carbon dioxide filling unit with adjustable filling

power and speed-controlled motor. The universal filling head F1M

is mounted to an electronic load cell. The operating panel has an

ergonomically favourable layout.

• With the optional floor scales platform you can fill CO. fire extinguishers or CO<sub>2</sub> cylinders up to 50 kg.

## Very accurate filling process

You can ensure the supply of the system via CO, cylinders with riser pipe, CO<sub>2</sub> cylinder bundles or CO<sub>2</sub> medium pressure tanks (approx. 50 bar). A high-grade steel filter at the system inlet protects the pump from impurities from storage bottles or the CO<sub>2</sub> tank. Program the filling weight on the digital scale and press the pushbutton to tare the scale. This weighing technique enables a very exact filling process.

#### Full control during the filling phase

Pressing a pushbutton opens the filling solenoid valve, which fills the CO<sub>2</sub> container by means of a speed-controlled plunger pump. When the filling weight is reached, the filling process automatically shuts off. The valve of the filled CO<sub>2</sub> container must be closed. Filling pressure and input pressure are monitored at the two manometers of the system. You can monitor the rising of the CO<sub>2</sub> filling weight on the scale and adjust the filling speed to the container size via the speed control.

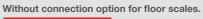
#### Optional printer

The CFA 2 can be supplemented with a thermal transfer printer for PE film labels. The printed label contains the date, time, weight (tare, net and gross) as well as an identifier of the filler.

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

Prepared for connection to the floor scales

#### Art.-No. 186112



Art.-No. 186125

Electric motor: 230 V. 50 Hz. 1.5 kW. 1400 min<sup>-1</sup> Special voltages and other frequencies on

Electric cable feed line: 5 m cable feed line H07RN-F 3 G 1.5 mm<sup>2</sup>, oil and acid resistant. Filling power: max. 4 kg/min.

Electric pressure switch: Cut-off pressure 130 bar. Mech. safety valves: 2 x 150 bar. Dimensions: Height [mm]: 1070, width [mm]: 1320, depth [mm]: 460. Weight [kg]: 141. Colour: RAL 7032 pebble grey, hammer finish.



Our carbon dioxide filling unit CFA 3 is specifically designed for filling CO, fire extinguishers or CO<sub>2</sub> cylinders from a medium pressure tank with an operating pressure of approx. 50 bar. The high-grade steel filter at the system inlet protects the pump from impurities from the CO<sub>2</sub> tank.



• The speed regulation enables the optimisation of the filling speed for different container sizes.

#### **Fast and accurate**

The CFA 3 operates very accurately in terms of weight and is cost-effective, as set-up times are short and work cycles are fast. The system also has a low rate of wear and is low-maintenance. The CFA 3 has a digital scales with automatic cut-off and is supplied with a cylinder holder and an access ramp. For filling, the CO<sub>2</sub> container is placed on the scales platform and secured after which the filling device is connected. After you have programmed the filling weight, open the cylinder valve and the filling armature and start the system.







• With the carbon dioxide filling unit CFA 3 you can fill CO, fire extinguishers or CO2 cylinders up to 50 kg.

#### **Optimal result**

You can monitor the basic CO, pressure, the filling pressure and the filling weight at the control desk and adjust the optimal filling speed with the speed regulation. The filling process ends automatically as soon as the programmed filling weight is reached.

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

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#### Art.-No. 186161

**Electric motor:** 400 V, 50 Hz, 2.2 kW, 1400 min<sup>-1</sup>. Special voltages and other frequencies on request. Electric cable feed line: 5 m cable feed line H07RN-F 5 G 1.5 mm<sup>2</sup>, oil and acid resistant. Filling power: max. 6.5 kg/min, continuously adjustable. Cut-off pressure: 130 bar Mech. safety valves: 2 x 150 bar. Freely programmable electronic floor scales.

#### Dimensions:

Control stand: Height [mm]: 1190, width [mm]: 895, depth [mm]: 620. Weight [kg]: 153. Floor scales with access ramp: Height [mm]:

Weight [kg]: 44.

Colour: RAL 7032 pebble grey. IP rate: IP54

Page 62 | Carbon dioxide filling units CFA Accessories can be found on pages 70-71 1390, width [mm]: 635, depth [mm]: 590.



The filling armature of the CFA 4 has one filling and one release ball valve and can be attached to the CO<sub>2</sub> cylinder as well as to the scales platform as necessary. • The floor scales platform for CO<sub>2</sub> cylinders up to 50 kg is part

Cylinder holder, filling armature

and high pressure hose are included. The weighing range is from 0

### CFA 4

#### **Dimensions:**

	Pump stand	Control desk with support	Floor scales with access ramp
Height [mm]:	605	1035	1000
Width [mm]:	845	500	600
Depth [mm]:	610	505	995
Weight [kg]: Art. No. 186190	110	37	44
Weight [kg]: Art. No. 186195	136	37	44

of the system.

to 150 kg.

# CFA 4 Carbon dioxide filling unit Highly adaptable success model

#### STRENGTHS AT A GLANCE

- HIGH FLEXIBILITY THROUGH MODULAR DESIGN
- FILLING MACHINE FOR FILLING FROM THE LIQUID PHASE
- FREELY PLACEABLE AND HEIGHT ADJUSTABLE CONTROL DESK





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Our carbon dioxide filling unit CFA 4 is specifically designed for filling CO. fire extinguishers or CO2 cylinders from a medium pressure tank with an operating pressure of approx. 50 bar. It consists of a pump stand, a control desk on a support and electronic floor scales.



Thanks to the modular design, the **CFA 4** enables customer-specific

solutions regarding local conditions.

• The filling process is programmed and controlled at the freely placeable and height adjustable control desk of the

Flexible application possibility

The modular design of the CFA 4 allows you to place the pump stand directly at the CO<sub>2</sub> medium pressure tank, away from the control desk and the scales. This enables you to adapt the system to your local circumstances. The control desk is connected to the pump stand via a CO<sub>a</sub> supply line and a control cable.







• With the carbon dioxide filling unit CFA 4 you can fill CO, fire extinguishers or CO<sub>2</sub> cylinders up to 50 kg.

The carbon dioxide moves constantly during system operation: It is removed in liquid form from the medium pressure tank and either pumped from the pump stand back into the tank or to the CO<sub>2</sub> cylinder to be filled. The filling process ends automatically as soon as the programmed filling weight is reached.

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

#### Art.-No. 186190



#### Art.-No. 186195

Electric motor: 400 V, 50 Hz, 4 kW, 1435 min<sup>-1</sup>. Filling power: 12.5 kg/min.

Special voltages and other frequencies on

Electric cable feed line: 5 m cable feed line H07RN-F 5 G 1.5 mm<sup>2</sup>, oil and acid resistant.

Cut-off pressure: 130 bar. Mech. safety valves:

1 x 80 bar. + 1 x 150 bar.

Digital scales: 0 - 150 kg. Colour: RAL 7032 pebble grey.



Our carbon dioxide filling unit CFA 5 has been designed for filling from the liquid phase. It precisely fills cryogenic carbon dioxide from low pressure tanks (15 to 20 bar) into CO<sub>2</sub> cylinders up to 50 kg. It has a pump stand, a control desk and an electronic floor scales. The CFA 5 operates with high process reliability. Short set-up times and fast working speeds guarantee efficient and streamlined work.



• The filling process is programmed and controlled at the freely placeable and height adjustable control desk of the CFA 5.

## Flexible application possibilities

The modular design of the CFA 5 allows you to place the pump stand directly at the CO<sub>2</sub> tank, away from the control desk and the scales. This enables you to adapt the system to your local circumstances. The control desk is connected to the pump stand via a CO<sub>2</sub> supply line and a control cable. The carbon dioxide moves constantly during system operation:





Accessories can be found on pages 70-71

• The filling armature of the CFA 5 has one filling and one release ball valve and can be attached to the CO<sub>2</sub> cylinder as well as to the scales platform as necessary.

It is removed in liquid form from the cryogenic tank and either pumped from the pump stand back into the tank or into the CO<sub>2</sub> cylinder to be filled. Program the filling weight on the digital scale and press the pushbutton to tare the scale. The filling process ends automatically as soon as the programmed filling weight is reached.

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

#### Art.-No. 186170

Electric motor: 1.5 kW, 400 V, 50 Hz, 1400 min<sup>-1</sup> Filling power: 5 kg/min.

Art.-No. 186173 Electric motor: 2.2 kW, 400 V, 50 Hz, 1400 min<sup>-1</sup>

Filling power: 8 kg/min.

#### Art.-No. 186172

Electric motor: 4.0 kW, 400 V, 50 Hz, 1400 min<sup>-1</sup> Filling power: 15 kg/min.

Special voltages and other frequencies on

request. Electric cable feed line: 5 m cable feed line H07RN-F 5 G 1.5 mm<sup>2</sup>, oil and acid resistant. Electr. pressure switch: 100 bar. Mech. safety **valves:** 1 x 130 bar. + 1 x 80 bar.

Freely programmable electronic floor scales. Colour: RAL 7032 pebble grev.

Subject to technical modifications / 03-2020

Page 66 | Carbon dioxide filling units CFA





Our carbon dioxide filling unit CFA 5-2W has been designed for filling from the liquid phase. It precisely fills cryogenic carbon dioxide from low pressure tanks (15 to 20 bar) into CO<sub>2</sub> cylinders up to 50 kg. It is the convenient model of the CFA 5 whose working methods are also applicable here. But it has a control stand instead of a control desk, which offers more operating convenience.



• The filling armature of the CFA 5-2W has one filling and one release ball valve and can be attached to the CO<sub>2</sub> cylinder as well as to the scales platform as necessary.

• Art. No. 186168 Carbon dioxide filling unit CFA 5-2W.

#### **Optimal filling speed**

The pump motor of the CFA 5-2W has a 2-stage speed regulation which allows the optimal adjustment of the filling speed - depending on the size of the CO<sub>2</sub> cylinders to be filled. The control stand of the CFA 5-2W has two independently operating filling controls with connections for two filling armatures and two floor scales platforms. As a result you can fill alternately on both scales. This makes the system highly efficient.

FILLING MACHINE FOR FILLING FROM THE LIQUID PHASE



• With the carbon dioxide filling unit CFA 5-2W you can fill CO, fire extinguishers or CO<sub>2</sub> cylinders up to 50 kg.

#### Floor scales platform

The floor scales platform (weighing range 0-150 kg) for CO<sub>2</sub> cylinders up to 50 kg including cylinder holder, filling armature and high pressure hose is available twice as an integral part of the CFA 5-2W.

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

#### Art.-No. 186168

Filling power: 8 kg/min. Electr. pressure switch: 100 bar.

Mech. safety valves: 3 x 130 bar. + 1 x 80 bar.

Electric motor, 2-stage:

400 V, 50 Hz, 1.4 kW at 705 min<sup>-1</sup> o 2.2 kW at 1435 min-1

#### Electric cable feed line:

5 m cable feed line H07RN-F 5 G 1.5 mm<sup>2</sup>, oil and acid resistant. Freely programmable electronic floor scales with 3 switching points Stored program control.

Colour: RAL 7032 pebble grey.

Also available with a filling capacity of 15 kg / min on request.

IP rate: IP54

Subject to technical modifications / 03-2020

• Art. No. 186168

Carbon dioxide filling unit CFA 5-2W.

• Art. No. 186168 Carbon dioxide filling unit CFA 5-2W with pump stand, control stand with two filling controls and two flat bed floor scales.

























# **AVAILABLE ACCESSORIES** CFA Carbon dioxide filling unit

PHOTO SHOWS OPTIONS AND ACCESSORIES AT EXTRA CHARGE

#### Holder and collective line

Cylinder holder for a CO<sub>2</sub> supply cylinder

#### Art.-No. 186106

#### **Collective line**

Collective line for 2 CO<sub>2</sub> supply cylinders with riser pipe. Available with up to 6 connections

#### Art.-No. 186108

#### Flange attachments

Flange attachment for filling CO2 cartridges, suitable for filling head F1B (please specify make and type of the fire extinguisher)

#### Closing devices

Closing devices for different CO<sub>2</sub> cartridges suitable for filling head F1B and F1M (please specify make and type of fire extinguisher)

#### Art.-No. 186114

#### Flange attachmentse

Flange attachment for filling CO, cartridges, suitable for filling head F1M (please specify make and type of the fire extinguisher)

#### Art.-No. 186171

#### Switchgear unit

Switchgear unit for the selection of 3 freely programmable cut-off weights

#### Art.-No. 187217

#### Quick action filling connector

Quick action filling connector with filling and release ball valve

#### 8 Art.-No. 187275

#### Thermal transfer printer

As an option, a thermal transfer printer for PE film labels can be attached to the machine. The printed label contains the date, time, weight (tare, net and gross) as well as an identifier of the filler

#### 9 Art.-No. 186915

### Flatbed floor scales

Flatbed floor scales for CO<sub>2</sub> cylinders up to 50 kg, including filling armature, high pressure hose

#### Art.-No. 186670

#### Digital floor scales

Digital floor scales with automatic deactivation weighing range: 0 - 60 kg, for CO<sub>2</sub> cylinders up to 20 kg. (without cylinder) Art. No. 186677 (calibrated)

#### 11 Art.-No. 186155

#### Supplementary Unit Digital II

Supplementary unit Digital II with automatically deactivating scales and filling head F1B for interior CO<sub>2</sub> cartridges

#### 12 Art.-No. 186158

Floor - weighing platform for CO<sub>2</sub> cylinders up to 20 kg

### 13 Art.-No. 186331

Worktable (not pictured)

#### Art.-No. 186333

Tool board for worktable (not pictured)



Page 70 | Carbon dioxide filling units CFA Subject to technical modifications / 03-2020