

# Use and Maintenance Technical Manual



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## 23058-3: Portable Fire Extinguisher, 5 Kg Carbon Dioxide



OPTIONAL

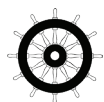


- **CYLINDER**  
Alloy steel, external powder coating, color Red Ral 3000.
- **EXTINGUISHING AGENT**  
Carbon Dioxide 99,99 % (CO<sub>2</sub>)
- **VALVE**  
CPF M. 25x2, brass body, lever red RAL 3000.
- **USE**  
Fire Rating class B (flammable liquids)

Note: image is for illustrative purpose only, the product purchased can has some difference

5 Kg Carbon Dioxide Fire Extinguisher, operating temperature from -30 ° C to + 60 ° C, built in accordance with the standard **UNI EN 3-7 (D.M. 7.1.2005)**, approved by Marine Equipment Directive **MED 2014/90/UE**, certified according to Pressure Equipment Directive **PED 2014/68/EU**. Manufactured according to productions checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia. Can be used on live electrical equipment up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE RATING:**



89

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## TECHNICAL SPECIFICATIONS

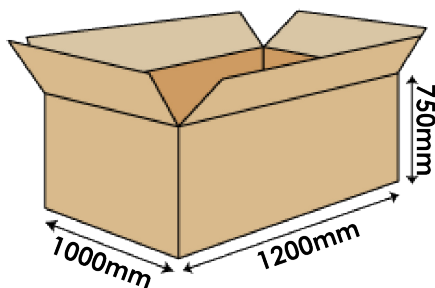
FIRE RATING	89 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99 % (CO <sub>2</sub> )
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	5 Kg
FULL WEIGHT	~ 14,1 Kg
DIMENSIONS	Height (base - valvole) 740 +/- 10 mm Diameter (cylinder) 136 +/- 2 mm
DISCHARGE TIME	~ 10 seconds
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 250 bar
CYLINDER VOLUME	7,5 L.
SAFETY DEVICE	Set between 195 +15/-23 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblasting and powder coating Red Ral 3000

## PACKAGING

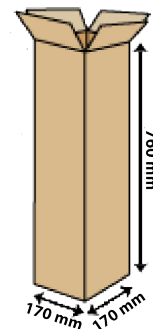
(Note: the packaging quantities and measurements are indicative and can be subject at changes)

### STANDARD

Maximum nr. 65 pieces for pallet  
(65 pieces for box, 1 box for pallet)  
Pallet dimensions 100x120x100(h) cm



### ON REQUEST: SINGLE PACKAGING



## TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR 594

Ship Transport : IMDG Code - UN 1044 class 2.2 Fire Extinguishers

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## COMPONENTS AND SPARE PARTS LIST

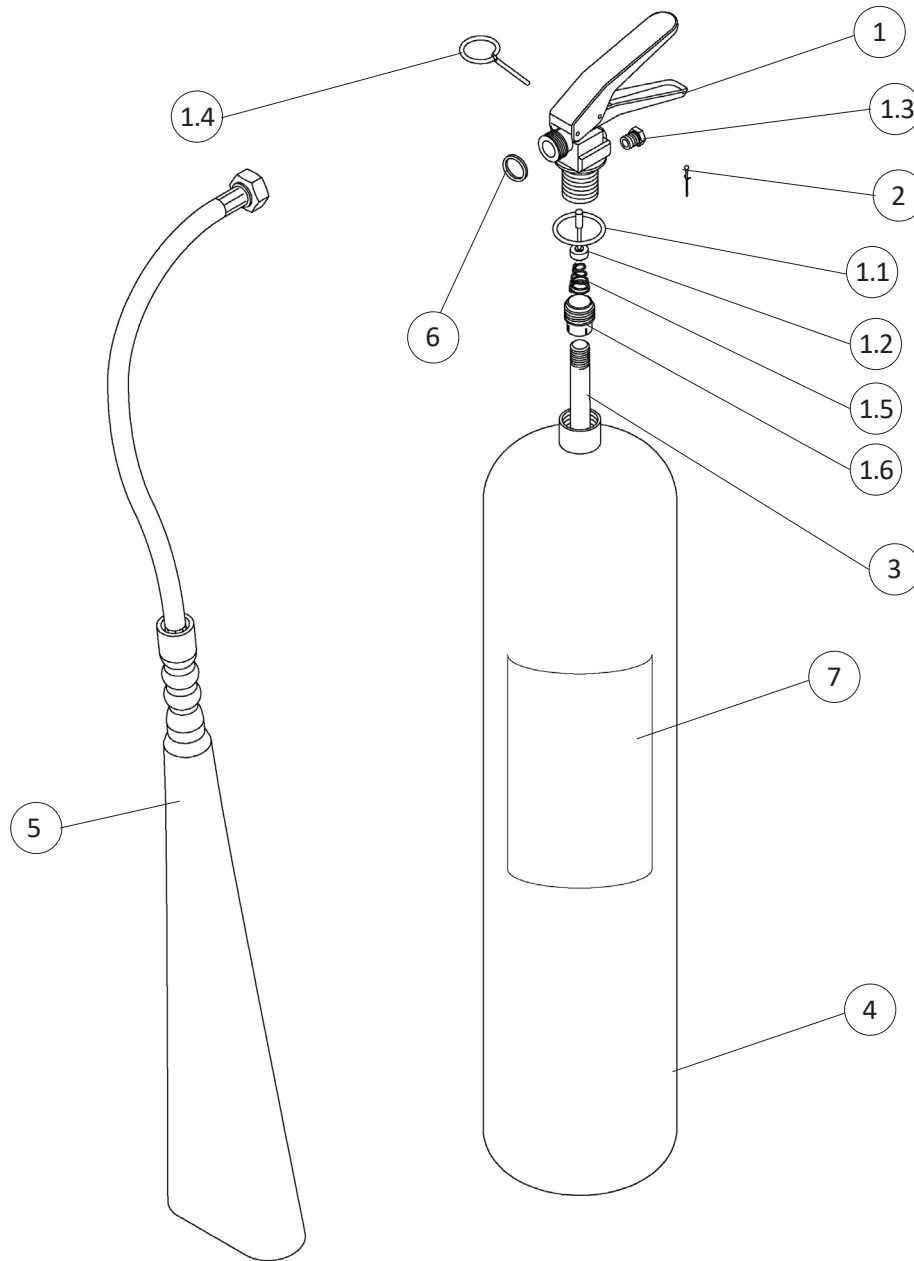


Table 1

NUM.	DESCRIPTION	CODE	NUM.	DESCRIPTION	CODE
1	Valve M. 25x2	0213C-1	3	Aluminum dip tube	0160-1
1.1	O-ring valve	0202	4	Cylinder	0110-1
1.2	Valve stem	0243C	5	Hose SAE 100 R1 T 1/2" with dispensing horn mod. "Europe"	0332-1
1.3	Safety device	0262C	6	Gasket in nylon	0204
1.4	Safety pin	0284	7	Label	2254-1
1.5	Internal spring of the valve	n.a.	OPTIONAL	Iron ring wall-mounted, red painting, Europe model	1907-2
1.6	Dip tube holder	n.a.			
2	Safety pin seal (green)	0285			

The spare part at number 1 includes already all others components indicated from 1.1 to 1.6  
 "n.a." mean that the component is not available as single spare part

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## 1) GENERAL PRESCRIPTIONS

All Fire Fighting Fire Extinguishers produced by Emme Antincendio must be installed, inspected and maintained in accordance with the following manual and with the rules in force in the country of destination.

All fire extinguishers must be recharged after partial use with original spare parts.

Every ordinary / extraordinary maintenance operation must be carried out using original spare parts and compliant with the declared certified prototype. The described below maintenance operations must be carried out by recognized personnel qualified by the company Emme Antincendio.

Fire extinguishers are classified into two categories that provide for specific construction standards:

- portable fire extinguishers: fire extinguishers designed to be transported and operated by hand, with a mass not exceeding 20 kg under operating conditions. Reference standard: EN 3-7
- wheeled fire extinguishers: wheel fire extinguishers designed to be transported and operated by hand, with a mass greater than 20 kg. Reference standards: EN 1866-1

Moreover, in relation to the extinguishing agent contained in them, they are identified in:

- water based fire extinguishers including foam extinguishers;
- powder fire extinguishers;
- carbon dioxide fire extinguishers;
- clean agent extinguishers

## 2) REFERENCE RULES

All Fire Fighting extinguishers produced by Emme Antincendio are manufactured in compliance with the following rules:

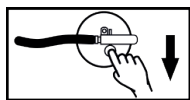
- EN 3-7: 2008 Portable fire extinguishers;
- EN 1866-1: 2008 Wheeled fire extinguishers;
- PED Directive 2014/68/EU pressure equipment;
- MED Directive 2014/90/EU devices for marine use (only for products bearing the relative MED certification mark, see pag 1 of this document)

## 3) INSTALLATION

- 1) Install the fire extinguishers with the appropriate bracket, with the handle at a maximum recommended height of 110 cm.
- 2) When installed in a vehicle the fire extinguisher must be held in a specific truck bracket.
- 3) Do not expose the fire extinguisher to the atmospheric agents or chemicals agents.  
(Note: in these cases protect the fire extinguisher with a special cabinet or protective cover.)
- 4) Do not expose the fire extinguisher to the direct sunlight.
- 5) Keep children away from fire extinguisher.
- 6) For Marine equipment or outdoor installation we recommend use of cover or cabinet.

## 4) MODALITY AND PRECAUTIONS FOR THE USE

- 1) Follow the operative instructions reported in the marking label stamped on the body of the extinguisher:



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF  
FIRE

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- 2) Do not through the fire extinguisher on to the fire.
- 3) This fire extinguisher is a pressurized vessel and must not be pierced, dented or subjected to external damage.
- 4) Do not direct the extinguishing agent at another person.

## 5) STEPS AND FREQUENCY RELATED TO MAINTENANCE OPERATIONS

*Note: The user have to complies to the national or international rules, if they are more restrictive of the below table*

**Table 2**

Ref.	Periodicity	Step	Operations
5.1	12 Months	Inspection	Check the nominal charge by weighing the extinguisher.
5.2	10 Years	Hydrotest tank	Check the state of conservation and carry out the hydraulic test of the tank with special machinery. Is recommended the replacement of dispensing valve. N.B. : This procedure must be carried out by specialised staff, in certified laboratories.
5.3	*20 Years		Is recommended the replacement of fire extinguisher

\*If it located in particular environments the timing can be reduced.  
(it is recommended to reduce to 10 years)

N.B. : All the operations must be calculated from the date of placing on the market.  
For the hydraulic test refer to the date stamped on the tank.







### 5.1) Inspection steps

1	Remove the fire extinguisher from the support and check the stability of the support fastening Check the condition of the marking label, replace if necessary.
2	Remove the horn/hose and check the correct internal passage with compressed air.
3	Check the safety seal and the safety pin conditions.
4	Check the nominal charge by weighing the cylinder. Before this operation, remove the accessories from the extinguisher (hose, horn etc.). Then use as references: – the tare weight indicated on the marking on the body of the extinguisher - the weight indicated on body of dispensing valve
5	Reinstall the accessories (horn, hose, etc...)
6	Record the inspection activity on the maintenance tag and on the fire protection register.

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## Executive details Inspection steps

	<p><b>1</b> - Remove the extinguisher from the bracket and check: stability of the fastening support, cleaning and general conditions. Check the marking label and replace it if damaged.</p>		<p><b>2</b> - Remove the horn/hose and check the correct internal passage with compressed air.</p>
	<p><b>3</b> - Check safety pin and safety seal. Replace if necessary.</p>		<p><b>4</b> - Check the nominal charge by weighing the cylinder. Before this operation, remove the accessories from the extinguisher (hose, horn etc.). Then use as references: - the tare weight indicated on the marking on the body of the extinguisher; - the weight indicated in the body of the dispensing valve.</p>
	<p><b>5</b> - Reinstall the relative accessories (horn, hose, ecc...). In this step check the plastic seal placed in the bindings of horn\ hose and replace if necessary</p>		<p><b>6</b> - Record the activity on the maintenance tag and on the maintenance register</p>

*Note: illustrative image only*

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## 5.2) Hydraulic test

At least every 10 years from the production date the fire extinguisher must be overhauled by a hydraulic pressure test in accordance with the pressure values "PT" stamped on the cylinder.

N.B.: This procedure must be carried out by specialised staff, in certified laboratories.

It is recommended the replacement of dispensing valve.

## 5.3) Twenty-year control

End-of-life fire extinguishers must be disposed in accordance with local waste management rules.

Before disposal or disassembly, the fire extinguisher MUST BE DEPRESSURIZED by a competent person.

Fire extinguishers should always be disposed of through an approved disposal company and in accordance with applicable local and national codes.

(see table 2 at point 5.3).

## 6) SPARE PARTS AND MAINTENANCE TOOLS

### 6.1) SPARE PARTS LIST

For the spare parts list see the table 1 at pag 3.

For more details see web site [www.emme-italia.com](http://www.emme-italia.com)

### 6.2) Inspection\Maintenance Tools

For a complete list of recommended tools see web site [www.emme-italia.com](http://www.emme-italia.com).

It is recommended to use instruments with controlled calibration and periodically verified (at least every 12 months) with certified sample instrument.

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