



4 Kg Clean Agent FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Clean Agent
- **PROPELLANT**
Nitrogen (N₂)
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B fire rating
(solid materials, flammable liquids)

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

4 Kg Clean Agent fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



8



55

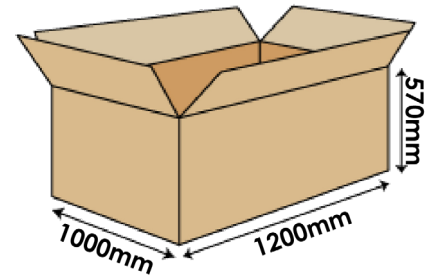
4 Kg Clean Agent FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	8 A 55 B
EXTINGUISHING AGENT	Clean Agent (FK-5-1-12)
PROPELLANT	Nitrogen (N ₂) , 14 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	4 Kg
FULL WEIGHT	~ 7,4 Kg
DIMENSIONS	Height(base-valve) 540 +/- 5 mm Diameter(cylinder) 160 +/-2 mm
DISCHARGE TIME	~ 12,6 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

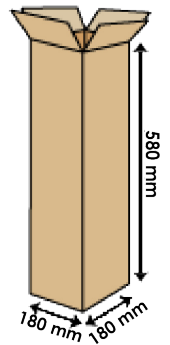
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

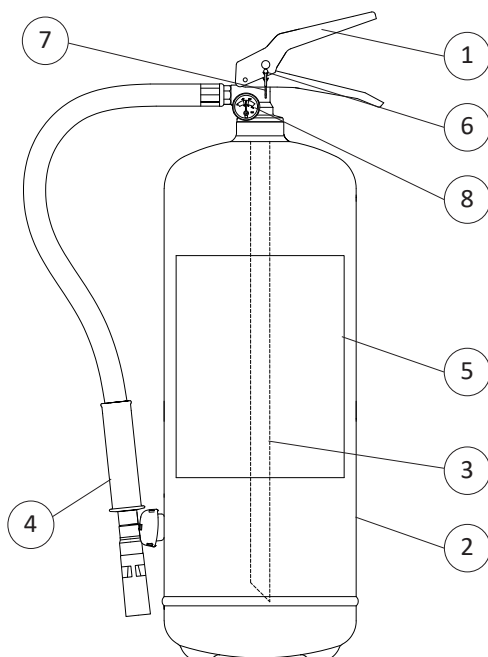
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose with dispensing nozzle and magnet	
5	Label	
6	Safety pin	
7	Safety pin seal	
8	Pressure gauge	
	Safety device	

			Rele.	Check	Rev.	Pag.
			M.R	MR	0	2



2 Kg CO₂ FIRE EXTINGUISHER



- **CYLINDER**
Aluminum alloy AA6061, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
Anti-magnetic type M. 25x2, stainless steel levers.
- **USE**
B fire rating (flammable liquids)

NOTE:
Fire extinguisher manufactured with low magnetic conductivity parts.

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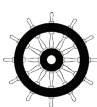
Note: image is for illustrative purpose only, the product purchased can has some differences

2 Kg CO₂ fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



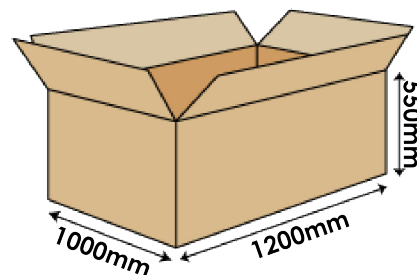
2 Kg CO₂ FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	34 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99%
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	2 Kg
FULL WEIGHT	~ 5,1 Kg
DIMENSIONS	Height(base-valve) 505 mm Diameter 117 mm
DISCHARGE TIME	8 sec.
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 212 bar
CYLINDER VOLUME	3 L.
SAFETY VALVE	Set at 185 +/- 15 bar
CYLINDER MATERIAL	Aluminum alloy AA6061
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

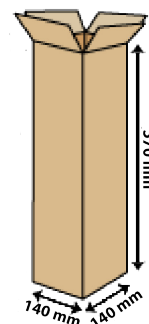
PACKAGING

STANDARD : maximum 80 pieces for pallet
(80 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x70(h) cm



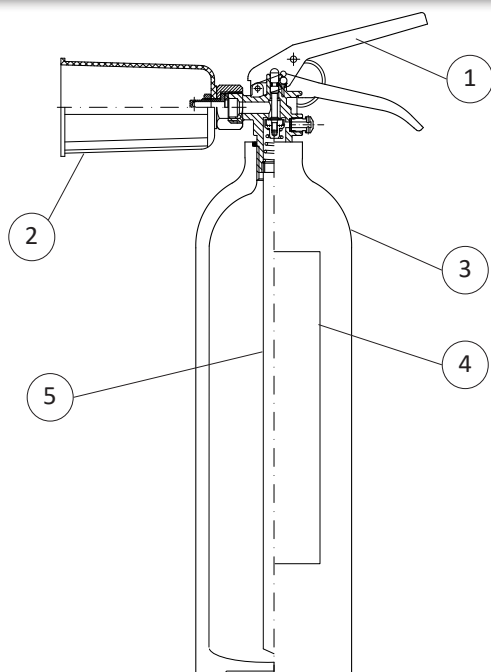
Note: the packaging quantities and measurements are indicative and can be subject at changes

SINGLE PACKAGING
ON REQUEST



MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 25x2	
2	Horn	
3	Cylinder	
4	Label	
5	Aluminum dip tube	
	Safety pin seal	

			Rele.	Check	Rev.	Pag.
			M.R	MR	2	2



2 Kg CO₂ FIRE EXTINGUISHER



- **CYLINDER**
Aluminum alloy AA6061, powder painting, Red Ral 3000
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
CPF M. 25x2, brass body, levers with red painting Ral 3000.
- **USE**
B fire rating (flammable liquids)

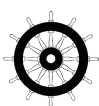
Note: image is for illustrative purpose only, the product purchased can has some differences

2 Kg CO₂ fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



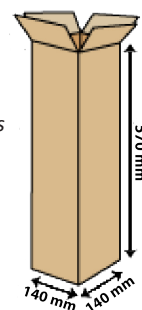
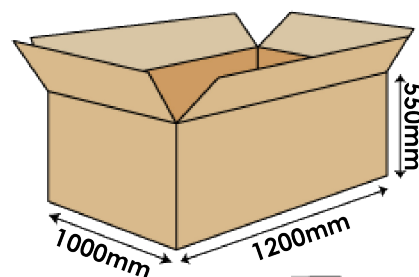
2 Kg CO₂ FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	34 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99%
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	2 Kg
FULL WEIGHT	~ 5,1 Kg
DIMENSIONS	Height (base-valve) 505 +/- 5 mm Diameter (cylinder) 117 +/- 2 mm
DISCHARGE TIME	~ 8,1 sec.
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 212 bar
CYLINDER VOLUME	3 L.
SAFETY DEVICE	Set at 195 +15/-23 bar
CYLINDER MATERIAL	Aluminum alloy AA6061
EXTERNAL/INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : maximum 80 pieces for pallet
(80 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x70(h) cm

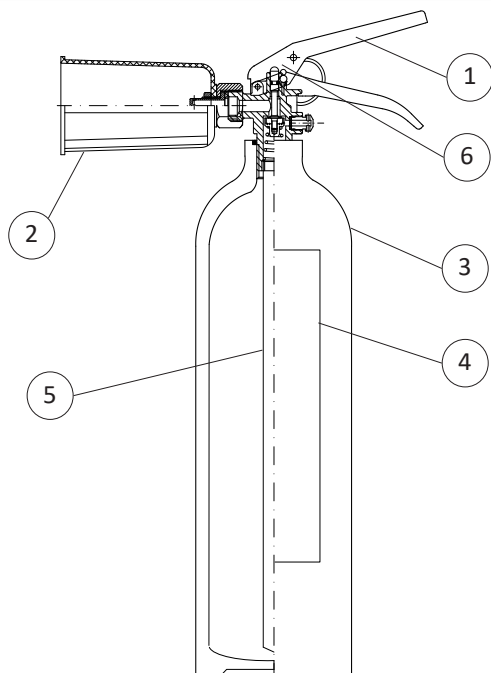


Note: the packaging quantities and measurements are indicative and can be subject at changes

SINGLE PACKAGING
ON REQUEST

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 25x2	
2	Horn	
3	Cylinder	
4	Label	
5	Aluminum dip tube	
6	Safety pin	
	Safety device	
	Safety pin seal	
OPTIONAL	Iron marine bracket red painting	

			Rele.	Check	Rev.	Pag.
			M.R	MR	2.1	2



2 Kg Co2 FIRE EXTINGUISHER



- **CYLINDER**
Aluminum alloy AA6061, polished.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
CPF M. 25x2, brass body, levers with black painting .
- **USE**
B fire rating (flammable liquids)
- **BRACKET**
Wall-mounted for valve, in standard equipment.

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

2Kg Co2 fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34

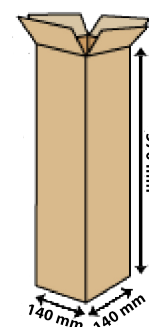
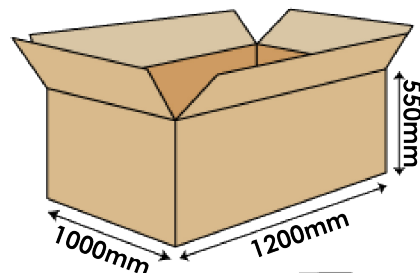
2 Kg Co2 FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	34 B
EXTINGUISHING AGENT	Co2 99,99%
TEMPERATURE RANGE	-30°C +60°C
NOMINAL CHARGE	2 Kg
FULL WEIGHT	~ 5,1 Kg
DIMENSIONS	Height 505 mm Diameter 117 mm
DISCHARGE TIME	6,5 sec.
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 212 bar
CYLINDER VOLUME	3 L.
SAFETY VALVE	Set 185 +15/-23 bar
CYLINDER MATERIAL	Aluminum alloy AA6061
EXTERNAL/INTERNAL TREATMENT	Polishing

PACKAGING

STANDARD : maximum 80 pieces for pallet
(80 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x70(h) cm

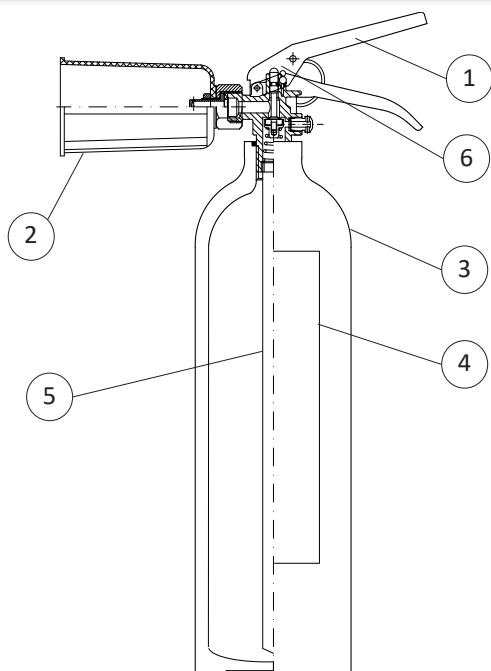


Note: the packaging quantities and measurements are indicative and can be subject at changes

SINGLE PACKAGING
ON REQUEST

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 25x2	
2	Horn	
3	Cylinder	
4	Label	
5	Aluminum dip tube	
6	Safety pin	
	Safety valve	
	Safety pin seal	

User and Maintenance Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

2 Kg Portable CO2 Fire Extinguisher



OPTIONAL



- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
CPF M. 25x2, brass body, levers with red painting Ral 3000.
- **USE**
B fire rating (flammable liquids).

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Note: image is for illustrative purpose only, the product purchased can have some differences

2 Kg CO2 fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to UNI EN 3-7 (D.M. 7.1.2005), approved Marine Equipment Directive MED 2014/90/EU, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1.000 V, at a distance of 1 mt

APPROVED\CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**

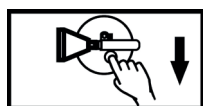


2 Kg CO2 Fire Extinguisher

TECHNICAL SPECIFICATIONS

FIRE RATING	34 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99 % (CO ₂)
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	2 Kg
FULL WEIGHT	~ 7,2 Kg
DIMENSIONS	Height (base - valve) 570 +/- 10 mm Diameter (cylinder) 104 +/- 2 mm
DISCHARGE TIME	~ 7,7 seconds

MODALITY OF USE



1) REMOVE SAFETY PIN



2) SQUEEZE GRIP LEVER



3) AIM THE JET AT BASE OF
FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the extinguisher must be performed according to the rules in force.

The extinguisher have to be installed in a safe and stable support, with a gripping at a maximum height of 110 cm. The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaining of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the extinguisher would be in a well-balanced, safety and impediment-freed position ; identify the extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 5 Kg Carbon Dioxide



OPTIONAL



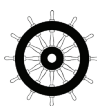
- CYLINDER
Alloy steel, external powder coating, color Red Ral 3000.
- EXTINGUISHING AGENT
Carbon Dioxide 99,99 % (CO₂)
- VALVE
Levian M. 25x2, brass body, lever red RAL 3000.
- USE
Fire Rating class B (flammable liquids)

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**.

All fire extinguishers are voluntarily certified with a Product Quality control 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:**



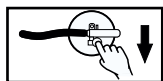
Portable Fire Extinguisher, 5 Kg Carbon Dioxide

TECHNICAL SPECIFICATIONS

FIRE RATING	89 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99 % (CO ₂)
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	5 Kg
FULL WEIGHT	~ 13,65 Kg
DIMENSIONS	Height (base - valvole) 740 +/- 10 mm Diameter (cylinder) 136 +/- 2 mm
DISCHARGE TIME	~ 11,7 seconds

MODALITY OF USE

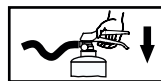
Follow the operating Instructions printed on the main fire extinguisher label



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on themarket, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaning of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.



5Kg Co2 FIRE EXTINGUISHER



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

- **CYLINDER**
Aluminum alloy AA6061, polished.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
CPF M. 25x2, brass body, levers with black painting.
- **USE**
B fire rating (flammable liquids)
- **BRACKET**
Wall-mounted for valve, in standard equipment.

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5Kg Co2 fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



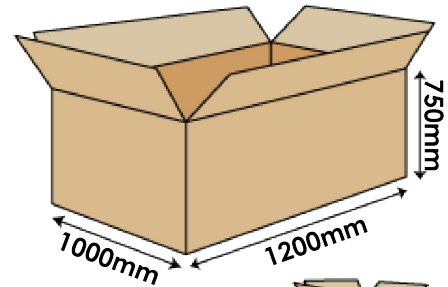
5Kg Co2 FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	89 B
EXTINGUISHING AGENT	Co2 99,99%
TEMPERATURE RANGE	-30°C +60°C
NOMINAL CHARGE	5 Kg
FULL WEIGHT	~ 12 Kg
DIMENSIONS	Height 670 mm Diameter 152 mm
DISCHARGE TIME	12,5 sec.
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 212 bar
CYLINDER VOLUME	7,5 L.
SAFETY VALVE	Set 185 +15/-23 bar
CYLINDER MATERIAL	Aluminum alloy AA6061
EXTERNAL/INTERNAL TREATMENT	Polishing

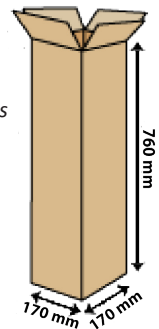
PACKAGING

STANDARD : maximum 48 pieces for pallet
(48 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x100(h) cm



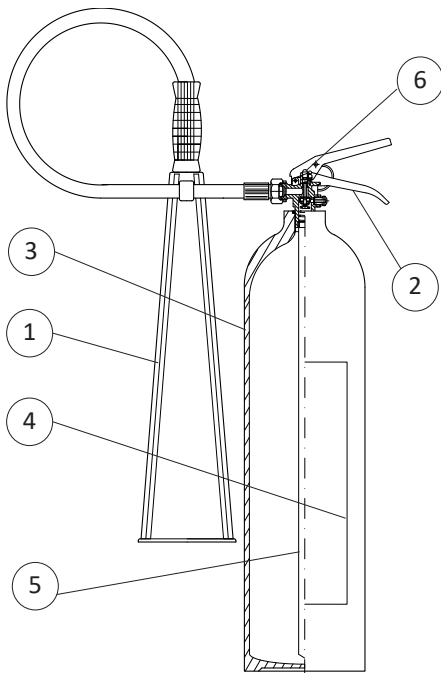
Note: the packaging quantities and measurements are indicative and can be subject at changes

SINGLE PACKAGING
ON REQUEST



MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Hose SAE 100 R1 T ½" with horn, Europe model	
2	Valve M. 25x2	
3	Cylinder	
4	Label	
5	Aluminum dip tube	
6	Safety pin	
	Safety pin seal	
	Safety valve	

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 5 Kg Carbon Dioxide



OPTIONAL

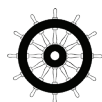


- **CYLINDER**
Alloy steel, external powder coating, color Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99 % (CO₂)
- **VALVE**
CPF M. 25x2, brass body, lever red RAL 3000.
- **USE**
Fire Rating class B (flammable liquids)

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 at 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:**



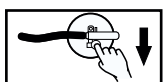
Portable Fire Extinguisher, 5 Kg Carbon Dioxide

TECHNICAL SPECIFICATIONS

FIRE RATING	89 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99 % (CO ₂)
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

MODALITY OF USE

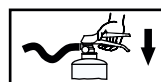
Follow the operating Instructions printed on the main fire extinguisher label



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force. The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on themarket, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaning of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.



5 Kg CO₂ FIRE EXTINGUISHER



- **CYLINDER**
Aluminum alloy AA6061, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
Anti-magnetic type M. 25x2, stainless steel levers.
- **USE**
B fire rating (flammable liquids)

NOTE:
Fire extinguisher manufactured with low magnetic conductivity parts.

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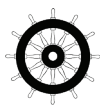
Note: image is for illustrative purpose only, the product purchased can has some differences

5 Kg CO₂ fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



89

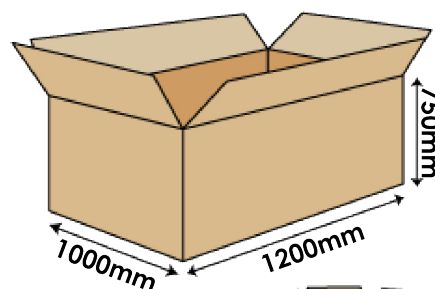
5 Kg CO₂ FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	89 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99%
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	5 Kg
FULL WEIGHT	~ 12,3 Kg
DIMENSIONS	Height(base-valve) 670 mm Diameter 152 mm
DISCHARGE TIME	12,5 sec.
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 212 bar
CYLINDER VOLUME	7,5 L.
SAFETY VALVE	Set at 185 +/- 15 bar
CYLINDER MATERIAL	Aluminum alloy AA6061
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

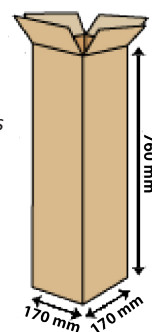
PACKAGING

STANDARD : maximum 48 pieces for pallet
(48 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x100(h) cm



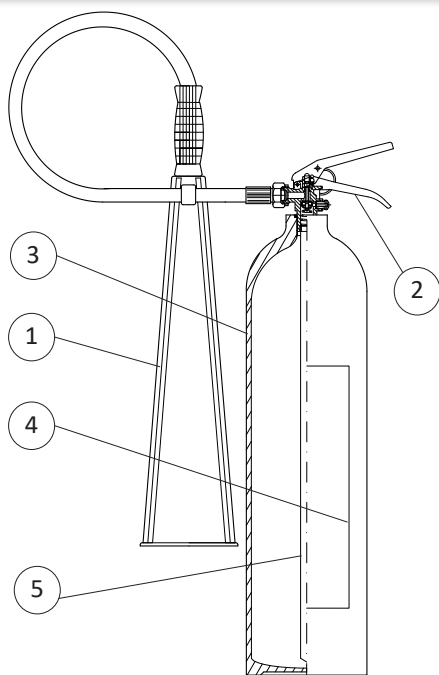
Note: the packaging quantities and measurements are indicative and can be subject at changes

SINGLE PACKAGING
ON REQUEST



MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Hose SAE 100 R1 T ½" with horn, Europe model	
2	Valve M. 25x2	
3	Cylinder	
4	Label	
5	Aluminum dip tube	
	Safety pin seal	



5 Kg CO₂ FIRE EXTINGUISHER



OPTIONAL



- **CYLINDER**
Alloy steel, epoxypolyester powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
CPF M. 25x2, brass body, levers with red painting Ral 3000.
- **USE**
B fire rating (flammable liquids)

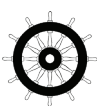
Note: image is for illustrative purpose only, the product purchased can has some differences

5 Kg CO₂ fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



113

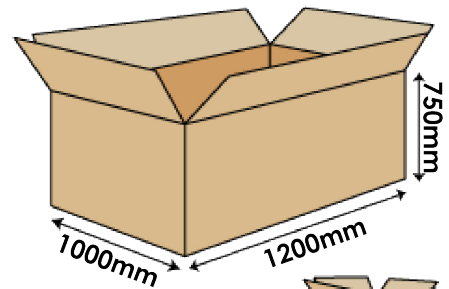
5 Kg CO₂ FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

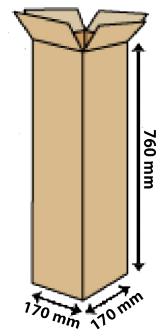
FIRE RATING	113 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99%
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	5 Kg
FULL WEIGHT	~ 13,8 Kg
DIMENSIONS	Height(base-valve) 750 mm Diameter 136 mm
DISCHARGE TIME	15 sec.
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 250 bar
CYLINDER VOLUME	7,5 L.
SAFETY VALVE	Set at 195 + 15/- 23 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : maximum 65 pieces for pallet
(65 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x100(h) cm



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



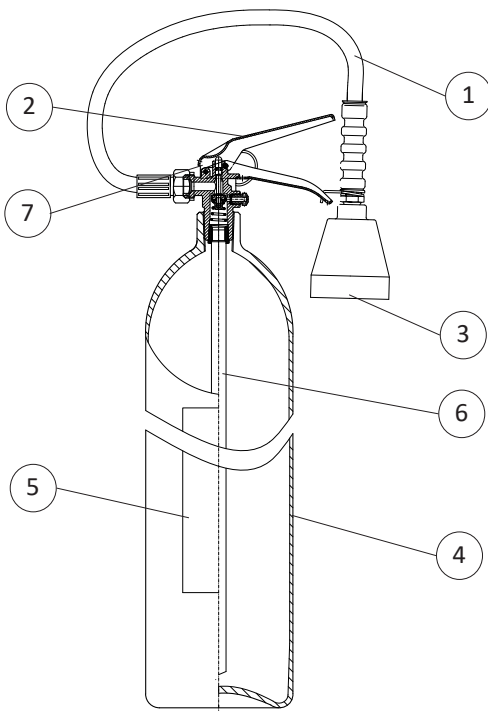
SINGLE PACKAGING
ON REQUEST

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.

SPARE PARTS

NUMBER	DESCRIPTION	
1	Hose SAE 100 R1 T ½"	
2	Valve M. 25x2	
3	Horn	
4	Cylinder	
5	Label	
6	Aluminum dip tube	
7	Safety pin	
	Safety pin seal	
	Safety valve	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	
OPTIONAL	Iron ring wall-mounted, red painting, Europe model	





5 Kg CO₂ FIRE EXTINGUISHER



- **CYLINDER**
Aluminum alloy AA6061, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
CPF M. 25x2, brass body, levers with red painting Ral 3000
- **USE**
B fire rating (flammable liquids)

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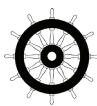
Note: image is for illustrative purpose only, the product purchased can has some differences

5 Kg CO₂ fire extinguisher, temperature range from -20°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



113

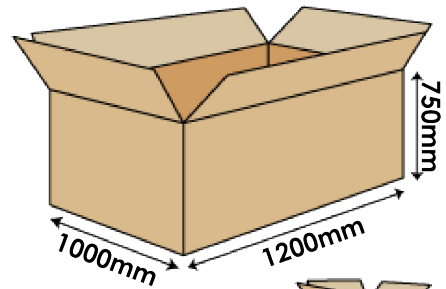
5 Kg CO₂ FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	113 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99%
TEMPERATURE RANGE	-20°C / +60°C
NOMINAL CHARGE	5 Kg
FULL WEIGHT	~ 12 Kg
DIMENSIONS	Height(base-valve) 670 mm Diameter 152 mm
DISCHARGE TIME	15 sec.
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 212 bar
CYLINDER VOLUME	7,5 L.
SAFETY VALVE	Set at 195 +15/-23 bar
CYLINDER MATERIAL	Aluminum alloy AA6061
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

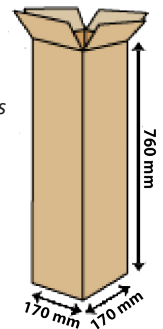
PACKAGING

STANDARD : maximum 48 pieces for pallet
(48 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x100(h) cm



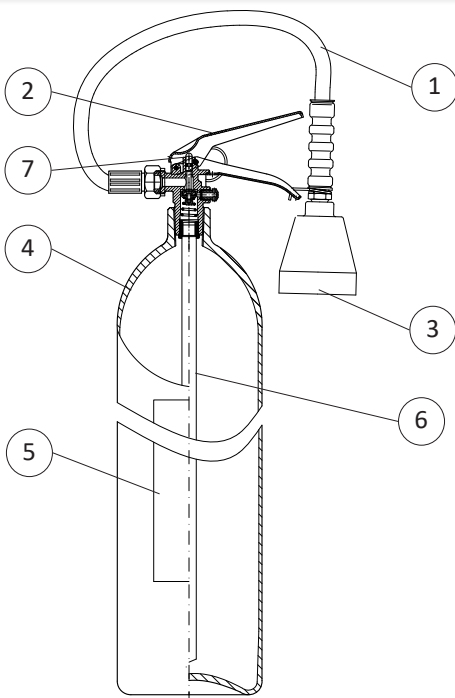
Note: the packaging quantities and measurements are indicative and can be subject at changes

SINGLE PACKAGING
ON REQUEST



MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the norm in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Hose SAE 100 R1 T ½"	
2	Valve M. 25x2	
3	Horn	
4	Cylinder	
5	Label	
6	Aluminum dip tube	
7	Safety pin	
	Safety pin seal	
	Safety valve	
OPTIONAL	Iron marine bracket red painting	



10kg CO₂ WHEELED FIRE EXTINGUISHER



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

10kg CO₂ wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 1866-1**, approved to European Marine Directive **MED 2014/90/EU**, **S.O.L.A.S.** (Safety of life at sea) '74 (2000), certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

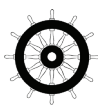
Suitable for use on fire involving electrical voltages up to 1000 V, at a distance of 1 mt.

- **CYLINDER**
Nr. 2 cylinders 5kg alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
M. 25x2, brass body, red painting Ral 3000, with protection for valve.
- **USE**
B fire rating (flammable liquids)
- **BRACKET**
Chassis on wheels, red painting Ral 3000.

AVAILABLE VERSIONS

N.	DESCRIPTION
1	10kg CO ₂ fire extinguisher, complies MED 2014/90/EU

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



144

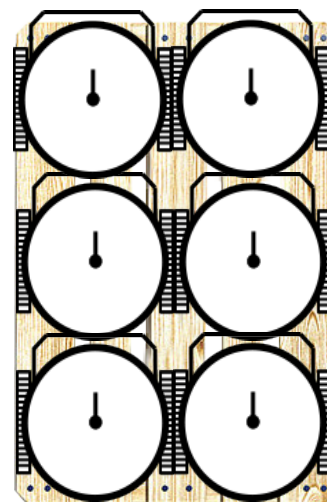
10kg CO₂ WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	144 B
EXTINGUISHING AGENT	CO ₂ 99,99%
TEMPERATURE RANGE	-30°C +60°C
NOMINAL CHARGE	10 Kg
FULL WEIGHT	~ 36 Kg
DIMENSIONS	Height 940 mm Width 430 mm Depth 480 mm
DISCHARGE TIME	16 sec.
VALVE TIGHTENING TORQUE	Minimum 95 Nm, Maximum 130 Nm
CYLINDER PRESSURE TEST	PT 250 bar
CYLINDER VOLUME	7,5 L. x 2
SAFETY VALVE	Set 195 +/- 10 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolystere powder painting, Red Ral 3000 colour

PACKAGING

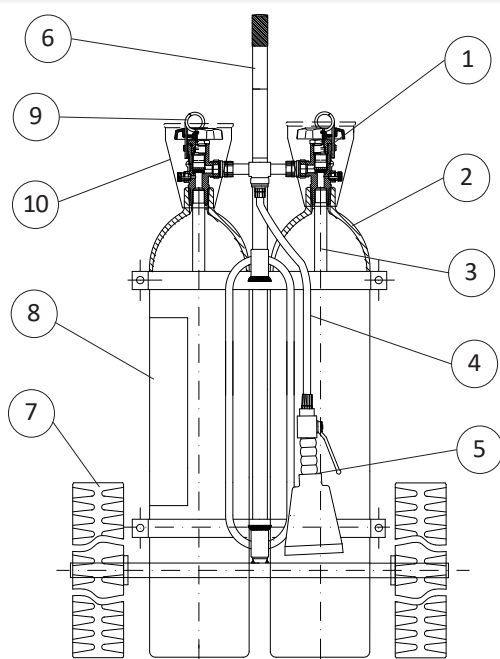
STANDARD : maximum 6 pieces for pallet
Pallet dimensions 100x120x110(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the norm in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 25x2	
2	Cylinder	
3	PVC dip tube	
4	Hose sae 100 R1 T1/2"	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Chassis	
7	Wheel + wheel stop (diam. 300mm)	
8	Label 17103-1 Label 14103-1	
9	Safety pin	
10	Valve protection	



20kg CO₂ WHEELED FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
W 28.8, brass body, red painting Ral 3000, with protection for valve.
- **USE**
B fire rating (flammable liquids)
- **BRACKET**
Chassis on wheels, red painting Ral 3000.

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

20kg CO₂ wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 1866-1**, approved to European Marine Directive **MED 2014/90/EU, S.O.L.A.S.** (Safety of life at sea) '74 (2000), certified according to the directive for pressure equipment PED 2014/68/EU.

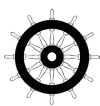
Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1000 V, at a distance of 1 mt.

AVAILABLE VERSIONS

N.	DESCRIPTION
1	20kg CO ₂ fire extinguisher, complies MED 2014/90/EU

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



233

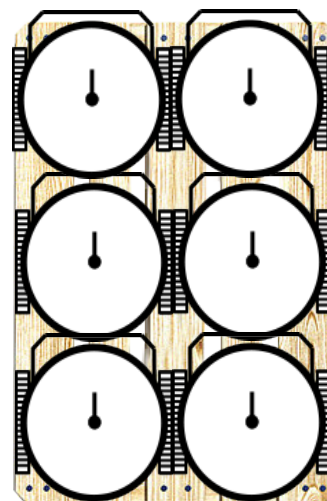
20kg CO₂ WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	233 B
EXTINGUISHING AGENT	CO ₂ 99,99%
TEMPERATURE RANGE	-30°C +60°C
NOMINAL CHARGE	20 Kg
FULL WEIGHT	~ 64 Kg
DIMENSIONS	Height 1115 +/- 5 mm Width 460 +/- 5 mm Depth 480 +/- 5 mm
DISCHARGE TIME	~ 18,5 sec.
VALVE TIGHTENING TORQUE	Minimum 200 Nm, Maximum 300 Nm
CYLINDER PRESSURE TEST	PT 300 bar
CYLINDER VOLUME	27,6 L. + 5%
SAFETY VALVE	Set between 230 and 245 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

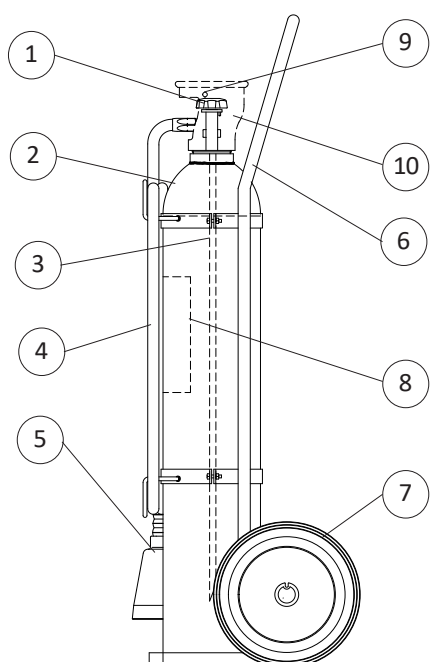
STANDARD : maximum 6 pieces for pallet
Pallet dimensions 100x120x120(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the norm in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve W28.8	
2	Cylinder	
3	Aluminum dip tube	
4	Hose sae 100 R1 T1/2"	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Chassis	
7	Wheel + wheel stop (diam. 300mm)	
8	Label 17204	
	Label 14204	
9	Safety pin	
10	Valve protection	



30kg CO₂ WHEELED FIRE EXTINGUISHER



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

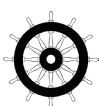
30kg CO₂ wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 1866-1**, approved to European Marine Directive **MED 2014/90/EU**, **S.O.L.A.S.** (Safety of life at sea) '74 (2000), certified according to the directive for pressure equipment PED 2014/68/EU. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1000 V, at a distance of 1 mt.

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Carbon Dioxide 99,99%
- **VALVE**
W 28.8, brass body, red painting Ral 3000, with protection for valve.
- **USE**
B fire rating (flammable liquids)
- **BRACKET**
Chassis on wheels, red painting Ral 3000.

AVAILABLE VERSIONS

N.	DESCRIPTION
1	30kg CO ₂ fire extinguisher, complies MED 2014/90/EU

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



233

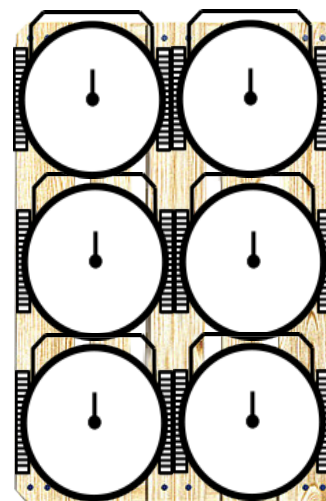
30kg CO₂ WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	233 B
EXTINGUISHING AGENT	CO ₂ 99,99%
TEMPERATURE RANGE	-30°C +60°C
NOMINAL CHARGE	30 Kg
FULL WEIGHT	~ 84 Kg
DIMENSIONS	Height 1300 +/- 5 mm Width 460 +/- 5 mm Depth 480 +/- 5 mm
DISCHARGE TIME	~ 28 sec.
VALVE TIGHTENING TORQUE	Minimum 200 Nm, Maximum 300 Nm
CYLINDER PRESSURE TEST	PT 300 bar
CYLINDER VOLUME	40 L. + 5%
SAFETY VALVE	Set between 230 and 245 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

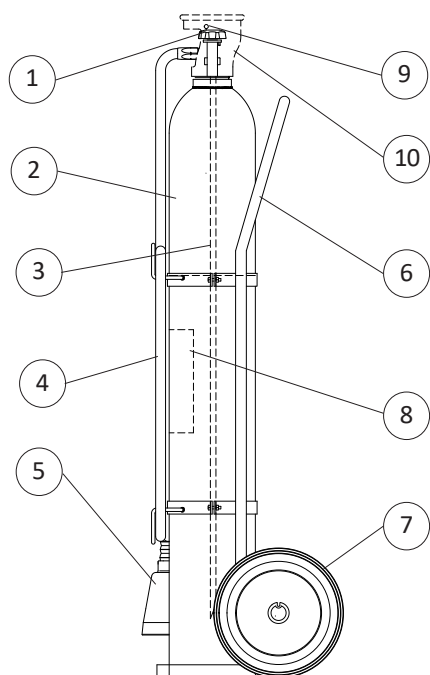
STANDARD : maximum 6 pieces for pallet
Pallet dimensions 100x120x140(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the norm in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve W28.8	
2	Cylinder	
3	Aluminum dip tube	
4	Hose sae 100 R1 T1/2"	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Chassis	
7	Wheel + wheel stop (diam. 300mm)	
8	Label 17304	
	Label 14304	
9	Safety pin	
10	Valve protection	

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Wheeled Fire Extinguisher, 50 Kg Carbon Dioxide



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

50 Kg carbon dioxide wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 1866-1 (D.M. 6.3.92)**, certified according to the directive for pressure equipment PED 2014/68/EU.

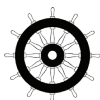
Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



For certified MED 2014/90/EU version:
cod. 14504



**FIRE
RATING :**



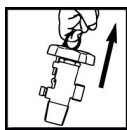
233

Wheeled Fire Extinguisher, 50 Kg Carbon Dioxide

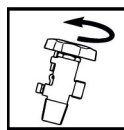
TECHNICAL SPECIFICATIONS

FIRE RATING	233 B
EXTINGUISHING AGENT	Carbon Dioxide 99,99 % (CO ₂)
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	50 Kg
FULL WEIGHT	~ 145 Kg
DIMENSIONS	Height 1270 +/-5 mm ; Width 1425 +/-5 mm Depth 580 +/-5 mm
DISCHARGE TIME	~ 48,9 seconds

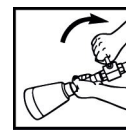
MODALITY OF USE



- 1) UNROLL THE HOSE
- 2) REMOVE SAFETY PIN



- 3) OPEN THE VALVE



- 4) HOLD THE NOZZLE, MOVE THE LEVER AND AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force. The fire extinguisher have to be installed in areas with large spaces and free from obstacles. The fire extinguisher must be free of obstructions and marked by an appropriate identifying label. It is recommended to install it in a dry place, protected from the atmospheric agents. It is recommended the installation of water-based fire extinguishers for close spaces. The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaining of the product efficiency have to be carried out from the responsible person. It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions. It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available. Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance. Any tampering or intromission by unauthorized personnel voids the product warranty.



AUTOMATIC DEVICE "MARE EASY SERIES" 3-6-12 Kg Gas HFC



OPTIONAL
(supplied only on request)

Pyrotechnic
cartridge for electric
activation



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

Gas HFC Automatic Device, Mare Easy Series, available charge 3, 6, 12Kg , temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU . RINA certified, ISO 9094:2015. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Gas HFC 227 ea
- **PROPELLANT**
Nitrogen (N₂)
- **VALVE**
Sprinkler M. 30x1.5, set 93 °C (with bulb in standard equipment)
- **USE**
A B fire rating (solid materials, flammable liquids).
- **ACTIVATION**
Automatic when bulb temperature is reached.
Is also possible, on request, with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

AVAILABLE VERSIONS

	GAS HFC QUANTITY	DIMENSIONS (without bracket) H x Ø cylinder (mm)	C % (volume gas concentration)	M3/Kg	DISCHARGE TIME	COVERAGE AREA
	Kg 3	430 +/- 5 x 130 +/- 3	7,611	0,1373	20 sec.	5 cubic m.
	Kg 6	480 +/- 5 x 160 +/- 3	7,611	0,1373	35 sec.	10 cubic m.
	Kg 12	580 +/- 5 x 190 +/- 3	7,611	0,1373	60 sec.	20 cubic m.

APPROVED/CERTIFIED DEVICE:



**FIRE
RATING :**



AUTOMATIC DEVICE "MARE EASY SERIES"

3-6-12 Kg Gas HFC

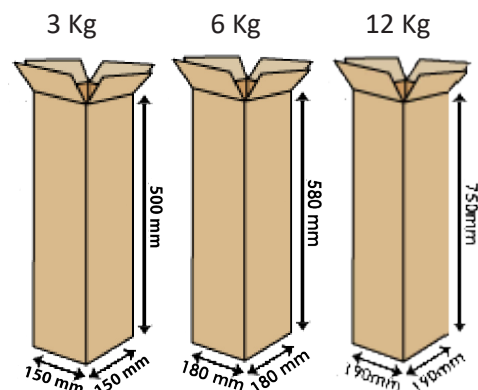
TECHNICAL SPECIFICATIONS

FIRE RATING	A B
EXTINGUISHING AGENT	Gas HFC 227 ea
PROPELLANT	Nitrogen (N ₂), 15 Bar at 20 °C
TEMPERATURE RANGE	-30°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : single packaging

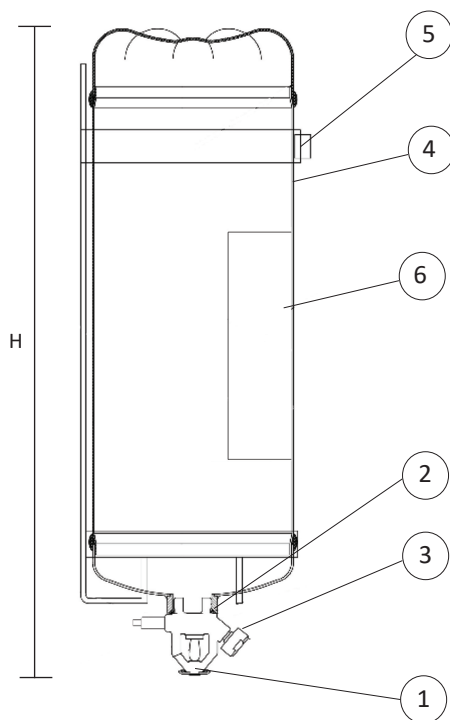
Note: the packaging quantities and measurements are indicative and can be subject at changes



MAINTENANCE AND INSTALLATION

Install the system in vertical position using the supplied bracket. Place with the sprinkler valve pointing down.

Recommended maintenance : every 6 months check pressure; every 72 months replace extinguishing agent; test after 144 months of production date.



SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4	Cylinder 3 Kg Cylinder 6 Kg Cylinder 12 Kg	
5	Iron bracket 3 Kg Iron bracket 6 Kg Iron bracket 12 Kg	
6	Label	
OPTIONAL	Pyrotechnic cartridge	



AUTOMATIC DEVICE "MARE SERIES" 3-6-12 Kg Gas HFC



In new installations, the devices for to be operative need at least of this components: 2164; 2165; 2163

See example of installation at next page

Note: items supplied only on request

Manual actuator



Aluminum distribution tube



Fitting F 3/8" for distribution tube



Pyrotechnic cartridge for electric



Nozzle M 3/8"



Supplied with Pressure switch



Note for pressure switch:
The pressurized device is "normally open".
The pressure switch alone, not installed on the device, is "normally closed".

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

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Gas HFC 227 ea.
- **PROPELLANT**
Nitrogen (N₂).
- **VALVE**
Automatic M. 30x1.5, set 93 °C.
(with bulb in standard equipment)
Supplied with pressure switch set at 11 bar.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **ACTIVATION**
 - Automatic when bulb temperature is reached. On request (see optional):
 - with manual actuator with handle;
 - with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

Gas HFC Automatic Device, Mare Series, available charge 3, 6, 12 Kg , temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU. RINA certified, ISO 9094:2015. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

AVAILABLE VERSIONS

	GAS HFC QUANTITY	DIMENSIONS (without bracket) H x L max x Ø cylinder (mm)	M3/Kg	C % (concentration gas in volume)	DISTRIBUTION TUBE LENGTH	NUMBER OF NOZZLE	DISCHARGE TIME	COVERAGE AREA
	Kg 3	440 +/-5 x 140 +/-3 x 130 +/-1	0,1373	7,611	recommended 5 m	Based on choice of dispensing points of installation	20 sec.	5 c.m.
	Kg 6	490 +/-5 x 160 +/-3 x 160 +/-3	0,1373	7,611	recommended 5 m		35 sec.	10 c.m.
	Kg 12	590 +/-5 x 190 +/-3 x 190 +/-3	0,1373	7,611	recommended 8 m		60 sec.	20 c.m.

APPROVED/CERTIFIED DEVICE:



FIRE RATING



AUTOMATIC DEVICE "MARE SERIES"

3-6-12 Kg Gas HFC

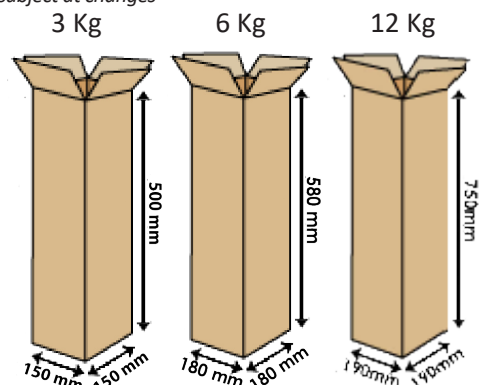
TECHNICAL SPECIFICATIONS

FIRE RATING	A B
EXTINGUISHING AGENT	Gas HFC 227 ea
PROPELLANT	Nitrogen (N ₂), 15 Bar at 20 °C
TEMPERATURE RANGE	-30°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : single packaging

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



MAINTENANCE AND INSTALLATION

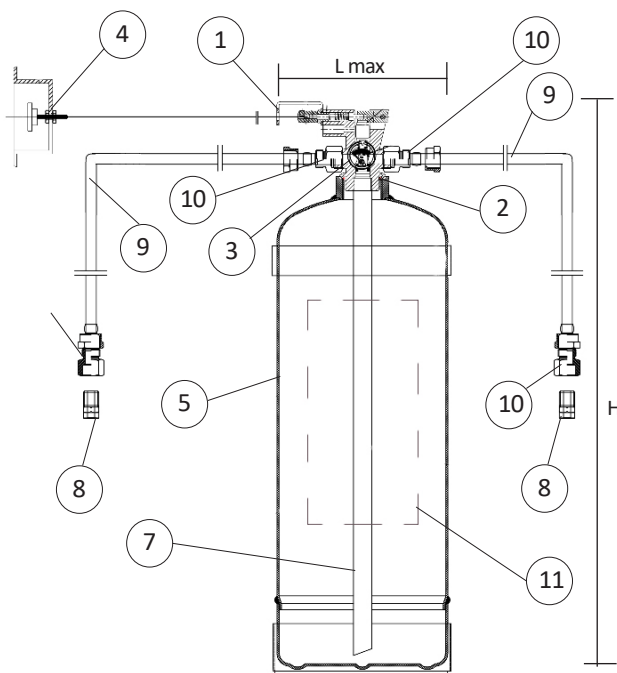
Install the system in vertical position using the supplied bracket. Place the gas distribution pipe and fix the nozzles. Remove the safety pin to make operating system.

Recommended maintenance : every 6 months check pressure; every 72 months replace extinguishing agent; test after 144 months of production date.

SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4 - OPTIONAL	Manual actuator in control box(cable 5 m)	
5	Cylinder 3 Kg Cylinder 6 Kg Cylinder 12 Kg	
6	Iron bracket 3 Kg Iron bracket 6 Kg Iron bracket 12 Kg	
7	PVC dip tube 3 Kg PVC dip tube 6 Kg PVC dip tube 12 Kg	
8 - OPTIONAL	Brass dispensing nozzle M 3/8"	
9 - OPTIONAL	Aluminum distribution tube Ø 10, PVC coated	
10 - OPTIONAL	Fitting F 3/8" for distribution tube	
OPTIONAL	Pyrotechnic cartridge	
11	Label	
	Pressure switch 1/8" for valve, set at 11 bar	

EXAMPLE OF AUTOMATIC DEVICE INSTALLATION





AUTOMATIC DEVICE "MARE EASY SERIES" 3-6-12 Kg Gas HFC



OPTIONAL
(supplied only on request)

Pyrotechnic
cartridge for electric
activation



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

Gas HFC Automatic Device, Mare Easy Series, available charge 3, 6, 12Kg , temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU . RINA certified, ISO 9094:2015. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Gas HFC 227 ea
- **PROPELLANT**
Nitrogen (N₂)
- **VALVE**
Sprinkler M. 30x1.5, set 93 °C (with bulb in standard equipment)
- **USE**
A B fire rating (solid materials, flammable liquids).
- **ACTIVATION**
Automatic when bulb temperature is reached.
Is also possible, on request, with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

AVAILABLE VERSIONS

	GAS HFC QUANTITY	DIMENSIONS (without bracket) H x Ø cylinder (mm)	C % (volume gas concentration)	M3/Kg	DISCHARGE TIME	COVERAGE AREA
	Kg 3	430 +/- 5 x 130 +/- 3	7,611	0,1373	20 sec.	5 cubic m.
	Kg 6	480 +/- 5 x 160 +/- 3	7,611	0,1373	35 sec.	10 cubic m.
	Kg 12	580 +/- 5 x 190 +/- 3	7,611	0,1373	60 sec.	20 cubic m.

APPROVED/CERTIFIED DEVICE:



**FIRE
RATING :**



AUTOMATIC DEVICE "MARE EASY SERIES"

3-6-12 Kg Gas HFC

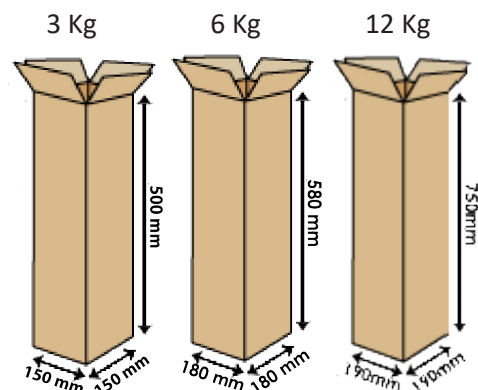
TECHNICAL SPECIFICATIONS

FIRE RATING	A B
EXTINGUISHING AGENT	Gas HFC 227 ea
PROPELLANT	Nitrogen (N ₂), 15 Bar at 20 °C
TEMPERATURE RANGE	-30°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : single packaging

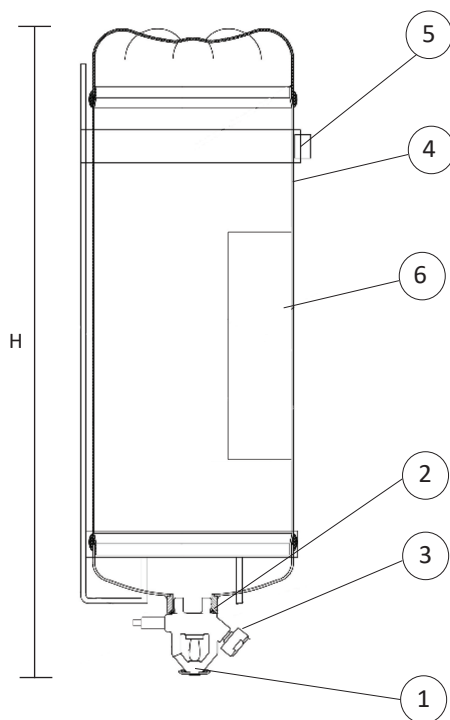
Note: the packaging quantities and measurements are indicative and can be subject at changes



MAINTENANCE AND INSTALLATION

Install the system in vertical position using the supplied bracket. Place with the sprinkler valve pointing down.

Recommended maintenance : every 6 months check pressure; every 72 months replace extinguishing agent; test after 144 months of production date.



SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4	Cylinder 3 Kg Cylinder 6 Kg Cylinder 12 Kg	
5	Iron bracket 3 Kg Iron bracket 6 Kg Iron bracket 12 Kg	
6	Label	
OPTIONAL	Pyrotechnic cartridge	



AUTOMATIC DEVICE "MARE SERIES" 3-6-12 Kg Gas HFC



In new installations, the devices for to be operative need at least of this components: 2164; 2165; 2163

See example of installation at next page

Note: items supplied only on request

Manual actuator



Aluminum distribution tube



Fitting F 3/8" for distribution tube



Pyrotechnic cartridge for electric



Nozzle M 3/8"



Supplied with Pressure switch



Note for pressure switch:
The pressurized device is "normally open".
The pressure switch alone, not installed on the device, is "normally closed".

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

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Gas HFC 227 ea.
- **PROPELLANT**
Nitrogen (N₂).
- **VALVE**
Automatic M. 30x1.5, set 93 °C.
(with bulb in standard equipment)
Supplied with pressure switch set at 11 bar.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **ACTIVATION**
 - Automatic when bulb temperature is reached. On request (see optional):
 - with manual actuator with handle;
 - with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

Gas HFC Automatic Device, Mare Series, available charge 3, 6, 12 Kg , temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU. RINA certified, ISO 9094:2015. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

AVAILABLE VERSIONS

	GAS HFC QUANTITY	DIMENSIONS (without bracket) H x L max x Ø cylinder (mm)	M3/Kg	C % (concentration gas in volume)	DISTRIBUTION TUBE LENGTH	NUMBER OF NOZZLE	DISCHARGE TIME	COVERAGE AREA
	Kg 3	440 +/-5 x 140 +/-3 x 130 +/-1	0,1373	7,611	recommended 5 m	Based on choice of dispensing points of installation	20 sec.	5 c.m.
	Kg 6	490 +/-5 x 160 +/-3 x 160 +/-3	0,1373	7,611	recommended 5 m		35 sec.	10 c.m.
	Kg 12	590 +/-5 x 190 +/-3 x 190 +/-3	0,1373	7,611	recommended 8 m		60 sec.	20 c.m.

APPROVED/CERTIFIED DEVICE:



FIRE RATING



AUTOMATIC DEVICE "MARE SERIES"

3-6-12 Kg Gas HFC

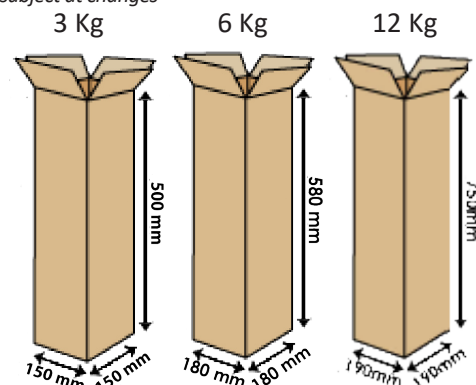
TECHNICAL SPECIFICATIONS

FIRE RATING	A B
EXTINGUISHING AGENT	Gas HFC 227 ea
PROPELLANT	Nitrogen (N ₂), 15 Bar at 20 °C
TEMPERATURE RANGE	-30°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : single packaging

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



MAINTENANCE AND INSTALLATION

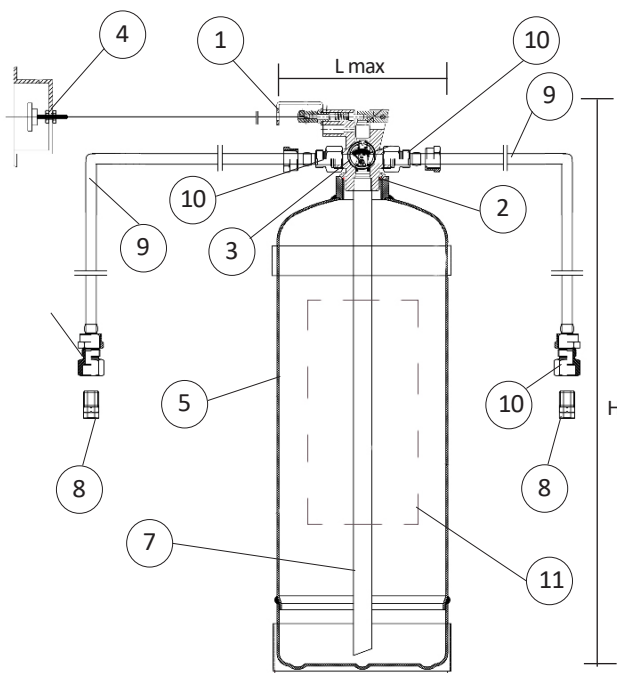
Install the system in vertical position using the supplied bracket. Place the gas distribution pipe and fix the nozzles. Remove the safety pin to make operating system.

Recommended maintenance : every 6 months check pressure; every 72 months replace extinguishing agent; test after 144 months of production date.

SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4 - OPTIONAL	Manual actuator in control box(cable 5 m)	
5	Cylinder 3 Kg Cylinder 6 Kg Cylinder 12 Kg	
6	Iron bracket 3 Kg Iron bracket 6 Kg Iron bracket 12 Kg	
7	PVC dip tube 3 Kg PVC dip tube 6 Kg PVC dip tube 12 Kg	
8 - OPTIONAL	Brass dispensing nozzle M 3/8"	
9 - OPTIONAL	Aluminum distribution tube Ø 10, PVC coated	
10 - OPTIONAL	Fitting F 3/8" for distribution tube	
OPTIONAL	Pyrotechnic cartridge	
11	Label	
	Pressure switch 1/8" for valve, set at 11 bar	

EXAMPLE OF AUTOMATIC DEVICE INSTALLATION





AUTOMATIC DEVICE "MARE SERIES" 3-6-12 Kg Gas HFC



Included accessories

Fitting F 3/8" for distribution tube (4 pieces)
Pressure switch (1 piece equipped)
Nozzle M 3/8" (2 pieces)



Not Included accessories (only on request)

Aluminum distribution tube



Pyrotechnic cartridge for electric activation

Manual actuator



- **CYLINDER**
Alloy steel, epoxypolyester powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Gas HFC 227 ea.
- **PROPELLANT**
Nitrogen (N₂).
- **VALVE**
Automatic M. 30x1.5, set 93 °C. (with bulb in standard equipment)
Supplied with pressure switch set at 11 bar.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **ACTIVATION**
 - Automatic when bulb temperature is reached. On request (see optional):
 - with manual actuator with handle;
 - with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

Note for pressure switch: The pressurized device is "normally open".
The pressure switch alone, not installed on the device, is "normally closed".

Note: image is for illustrative purpose only, the product purchased can have some differences

Gas HFC Automatic Device, Mare Series, available charge 3, 6, 12 Kg, temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU. RINA certified, ISO 9094:2015. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

AVAILABLE VERSIONS

	GAS HFC QUANTITY	DIMENSIONS (without bracket) H x L max x Ø cylinder (mm)	M3/Kg	C % (concentration gas in volume)	DISTRIBUTION TUBE LENGTH	DISCHARGE TIME	COVERAGE AREA
	Kg 3	440 +/-5 x 140 +/-3 x 130 +/-1	0,1373	7,611	recommended 5 m	20 sec.	5 c.m.
	Kg 6	490 +/-5 x 160 +/-3 x 160 +/-3	0,1373	7,611	recommended 5 m	35 sec.	10 c.m.
	Kg 12	590 +/-5 x 190 +/-3 x 190 +/-3	0,1373	7,611	recommended 8 m	60 sec.	20 c.m.

APPROVED/CERTIFIED DEVICE:



**FIRE
RATING**



AUTOMATIC DEVICE "MARE SERIES"

3-6-12 Kg Gas HFC

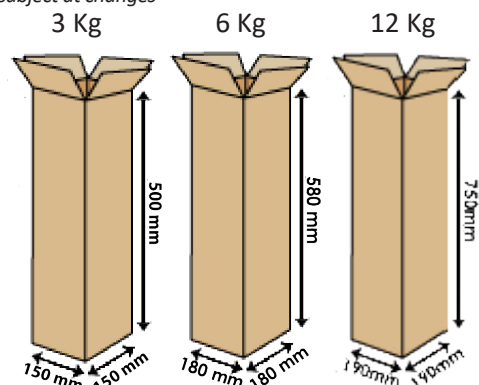
TECHNICAL SPECIFICATIONS

FIRE RATING	A B
EXTINGUISHING AGENT	Gas HFC 227 ea
PROPELLANT	Nitrogen (N ₂), 15 Bar at 20 °C
TEMPERATURE RANGE	-30°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : single packaging

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



MAINTENANCE AND INSTALLATION

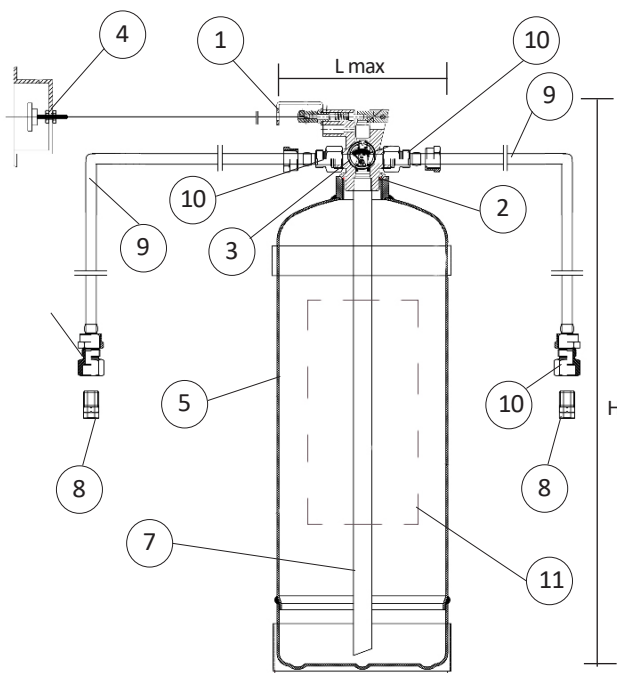
Install the system in vertical position using the supplied bracket. Place the gas distribution pipe and fix the nozzles. Remove the safety pin to make operating system.

Recommended maintenance : every 6 months check pressure; every 72 months replace extinguishing agent; test after 144 months of production date.

SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4 - OPTIONAL	Manual actuator in control box(cable 10 m)	
5	Cylinder 3 Kg Cylinder 6 Kg Cylinder 12 Kg	
6	Iron bracket 3 Kg Iron bracket 6 Kg Iron bracket 12 Kg	
7	PVC dip tube 3 Kg PVC dip tube 6 Kg PVC dip tube 12 Kg	
8	Brass dispensing nozzle M 3/8"	
9 - OPTIONAL	Aluminum distribution tube Ø 10, PVC coated	
10	Fitting F 3/8" for distribution tube	
OPTIONAL	Pyrotechnic cartridge	
11	Label	
	Pressure switch 1/8" for valve, set at 11 bar	

EXAMPLE OF AUTOMATIC DEVICE INSTALLATION

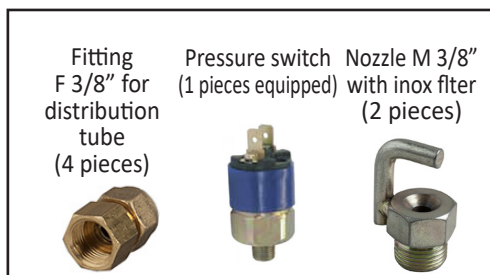




AUTOMATIC DEVICE "INDUSTRIAL SERIES" 6 and 9 Lt Water + Additive



Included accessories

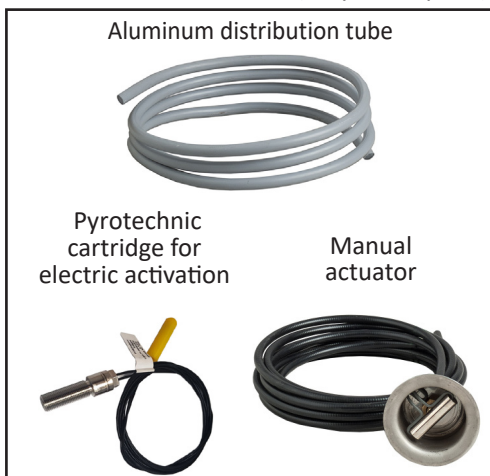


Fitting
F 3/8" for
distribution
tube
(4 pieces)

Pressure switch
(1 piece equipped)
with inox filter
(2 pieces)

Nozzle M 3/8"
(2 pieces)

Not Included accessories (only on request)



Aluminum distribution tube

Pyrotechnic
cartridge for
electric activation

Manual
actuator

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Nitrogen (N₂)
- **VALVE**
Automatic M. 30x1.5, set 93 °C.
(with bulb in standard equipment)
Supplied with pressure switch
set at 11 bar.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **ACTIVATION**
 - Automatic when bulb temperature is reached. On request (see optional):
 - with manual actuator with handle;
 - with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

Note for pressure switch: The pressurized device is "normally open".
The pressure switch alone, not installed on the device, is "normally closed".

Note: image is for illustrative purpose only, the product purchased can have some differences

Water + additive Automatic Device, Industrial Series, available charge 6 and 9 Lt, temperature range from +5°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU
Quality Product certification guaranteed by Bureau Veritas Italia.
Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

AVAILABLE VERSIONS

	FOAM QUANTITY	DIMENSIONS (without bracket) H x L max x Ø cylinder (mm)	M3/Kg	DISTRIBUTION TUBE LENGTH	DISCHARGE TIME	COVERAGE AREA
	Lt 6	515 +/-5 x 160 +/-3 x 160 +/-3	0,1373	recommended 6 m	35 sec.	10 sq.m
	Lt 9	610 +/-5 x 170 +/-3 x 170 +/-3	0,1373	recommended 8 m	60 sec.	20 sq.m

APPROVED/CERTIFIED DEVICE:



**FIRE
RATING :**



AUTOMATIC DEVICE "INDUSTRIAL SERIES"

6 and 9 Lt Water + Additive

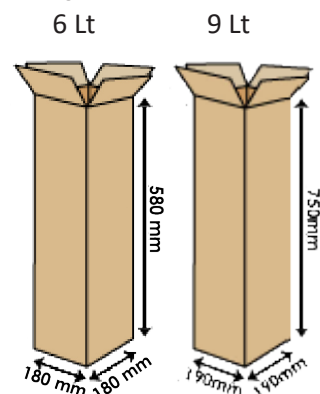
TECHNICAL SPECIFICATIONS

FIRE RATING	A B
EXTINGUISHING AGENT	98 % Water + 2 % additive EW-B
PROPELLANT	Nitrogen (N ₂) 15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ plastic coating inside

PACKAGING

STANDARD : single packaging

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

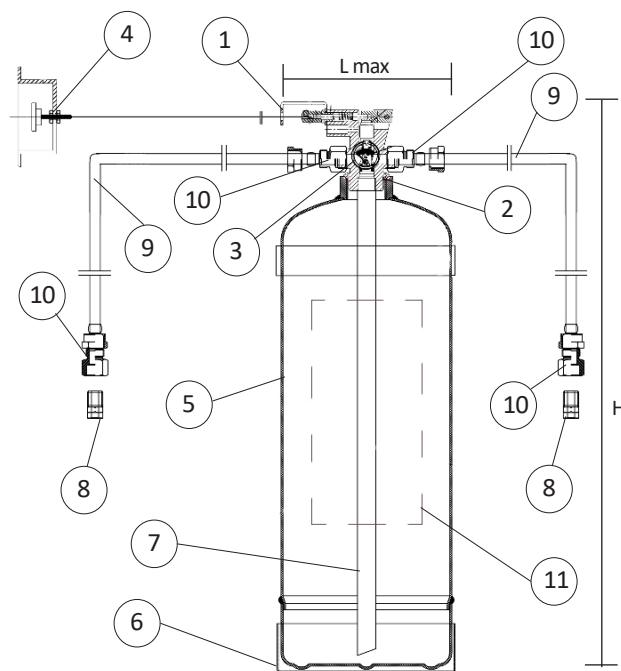


MAINTENANCE AND INSTALLATION

Install the system in vertical position using the supplied bracket. Place the distribution pipe and fix the nozzles. Remove the safety pin to make operating system.

Recommended maintenance : see specification in Use and Maintenance Manual equipped with the device, comply with the rules in use in utilization country.

EXAMPLE OF AUTOMATIC DEVICE INSTALLATION



AVAILABLE THERMOSENSIBLE BULBS

ACTIVATION TEMPERATURE	68°C	93°C
BULB COLOUR	Red	Green
CODE	9510	9511

SPARE PARTS

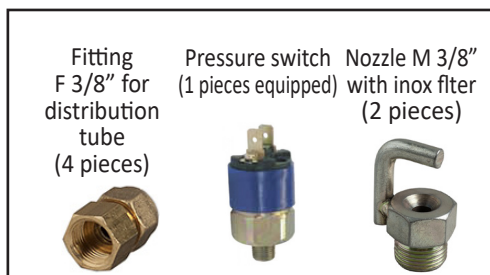
N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4 - OPTIONAL	Manual actuator in control box(cable 10 m)	
	EW-B additive (1 lt. to mix with water, suitable for more recharging)	
5	Cylinder 6 Lt Cylinder 9 Lt	
6	Iron bracket 6 Lt Iron bracket 9 Lt	
7	PVC dip tube 6 Lt PVC dip tube 9 Lt	
8	Dispensing nozzle AVP M 3/8"	
	Inox filter for nozzle 2163-1	
9 - OPTIONAL	Aluminum distribution tube Ø 10, PVC coated	
10	Fitting F 3/8" for distribution tube	
OPTIONAL	Pyrotechnic cartridge	
11	Label	
	Pressure switch 1/8" for valve, set at 11 bar	



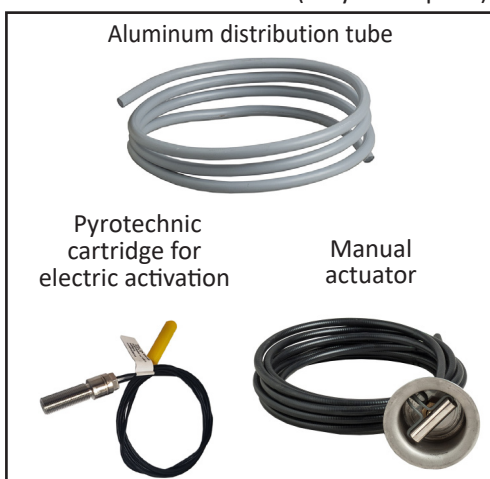
AUTOMATIC DEVICE "INDUSTRIAL SERIES" 6 and 9 Lt Water + Additive



Included accessories



Not Included accessories (only on request)



- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Nitrogen (N₂)
- **VALVE**
Automatic M. 30x1.5, set 93 °C. (with bulb in standard equipment)
Supplied with pressure switch set at 11 bar.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **ACTIVATION**
 - Automatic when bulb temperature is reached. On request (see optional):
 - with manual actuator with handle;
 - with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

Note for pressure switch: The pressurized device is "normally open".
The pressure switch alone, not installed on the device, is "normally closed".

Note: image is for illustrative purpose only, the product purchased can have some differences

Water + additive Automatic Device, Industrial Series, available charge 6 and 9 Lt, temperature range from +5°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU
Quality Product certification guaranteed by Bureau Veritas Italia.
Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

AVAILABLE VERSIONS

	FOAM QUANTITY	DIMENSIONS (without bracket) H x L max x Ø cylinder (mm)	M3/Kg	DISTRIBUTION TUBE LENGTH	DISCHARGE TIME	COVERAGE AREA
	Lt 6	515 +/-5 x 160 +/-3 x 160 +/-3	0,1373	recommended 6 m	35 sec.	10 sq.m
	Lt 9	610 +/-5 x 170 +/-3 x 170 +/-3	0,1373	recommended 8 m	60 sec.	20 sq.m

APPROVED/CERTIFIED DEVICE:



FIRE RATING :



AUTOMATIC DEVICE "INDUSTRIAL SERIES"

6 and 9 Lt Water + Additive

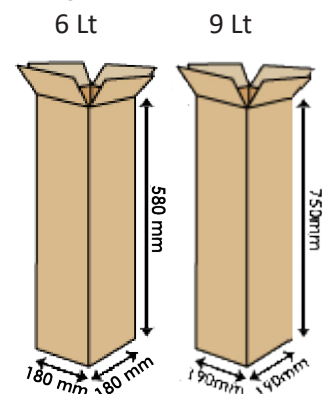
TECHNICAL SPECIFICATIONS

FIRE RATING	A B
EXTINGUISHING AGENT	98 % Water + 2 % additive EW-B
PROPELLANT	Nitrogen (N ₂) 15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ plastic coating inside

PACKAGING

STANDARD : single packaging

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

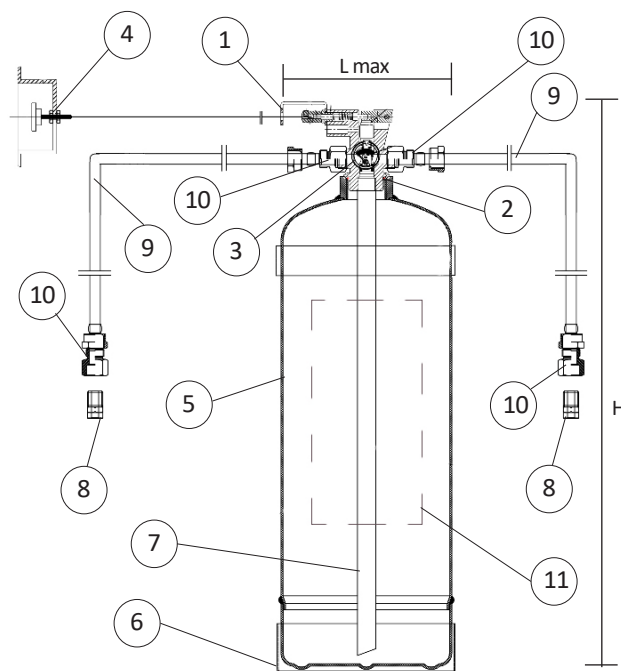


MAINTENANCE AND INSTALLATION

Install the system in vertical position using the supplied bracket. Place the distribution pipe and fix the nozzles. Remove the safety pin to make operating system.

Recommended maintenance : see specification in Use and Maintenance Manual equipped with the device, comply with the rules in use in utilization country.

EXAMPLE OF AUTOMATIC DEVICE INSTALLATION



AVAILABLE THERMOSENSIBLE BULBS

ACTIVATION TEMPERATURE	68°C	93°C
BULB COLOUR	Red	Green
CODE	9510	9511

SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4 - OPTIONAL	Manual actuator in control box(cable 10 m)	
	EW-B additive (1 lt. to mix with water, suitable for more recharging)	
5	Cylinder 6 Lt Cylinder 9 Lt	
6	Iron bracket 6 Lt Iron bracket 9 Lt	
7	PVC dip tube 6 Lt PVC dip tube 9 Lt	
8	Dispensing nozzle AVP M 3/8"	
	Inox filter for nozzle 2163-1	
9 - OPTIONAL	Aluminum distribution tube Ø 10, PVC coated	
10	Fitting F 3/8" for distribution tube	
OPTIONAL	Pyrotechnic cartridge	
11	Label	
	Pressure switch 1/8" for valve, set at 11 bar	

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 2 L Foam



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

- **CYLINDER**
In high-strength alloy steel, deep drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

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2 L foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



For MED 2014/90/UE version:
cod. 27021



**FIRE
RATING :**



13



55



25

Portable Fire Extinguisher, 2 L Foam

TECHNICAL SPECIFICATIONS

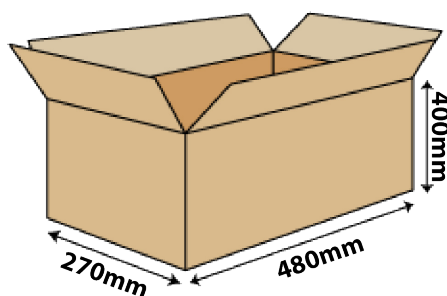
FIRE RATING	13 A 55 B 25 F
EXTINGUISHING AGENT	Foam EWAB15 (2 % SC-6 + 10 % Inilam AX + 88 % water)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	2 Liters
FULL WEIGHT	~ 3,9 Kg (with bracket)
DIMENSIONS	Height (base - valve) 370 +/- 5 mm Diameter (cylinder) 110 +/- 2 mm
DISCHARGE TIME	~ 10,5 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	2,4 L.
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL /INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour / Plastic coating

PACKAGING

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

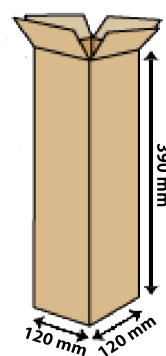
STANDARD

Note: minimum 8 pieces
Maximum nr. 256 pieces for pallet
(32 boxes with 8 pieces for each one)
Pallet dimensions 100x120 cm



ON REQUEST: SINGLE PACKAGING

- maximum 192 pieces on pallet 100x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 2 L Foam

COMPONENTS AND SPARE PARTS LIST

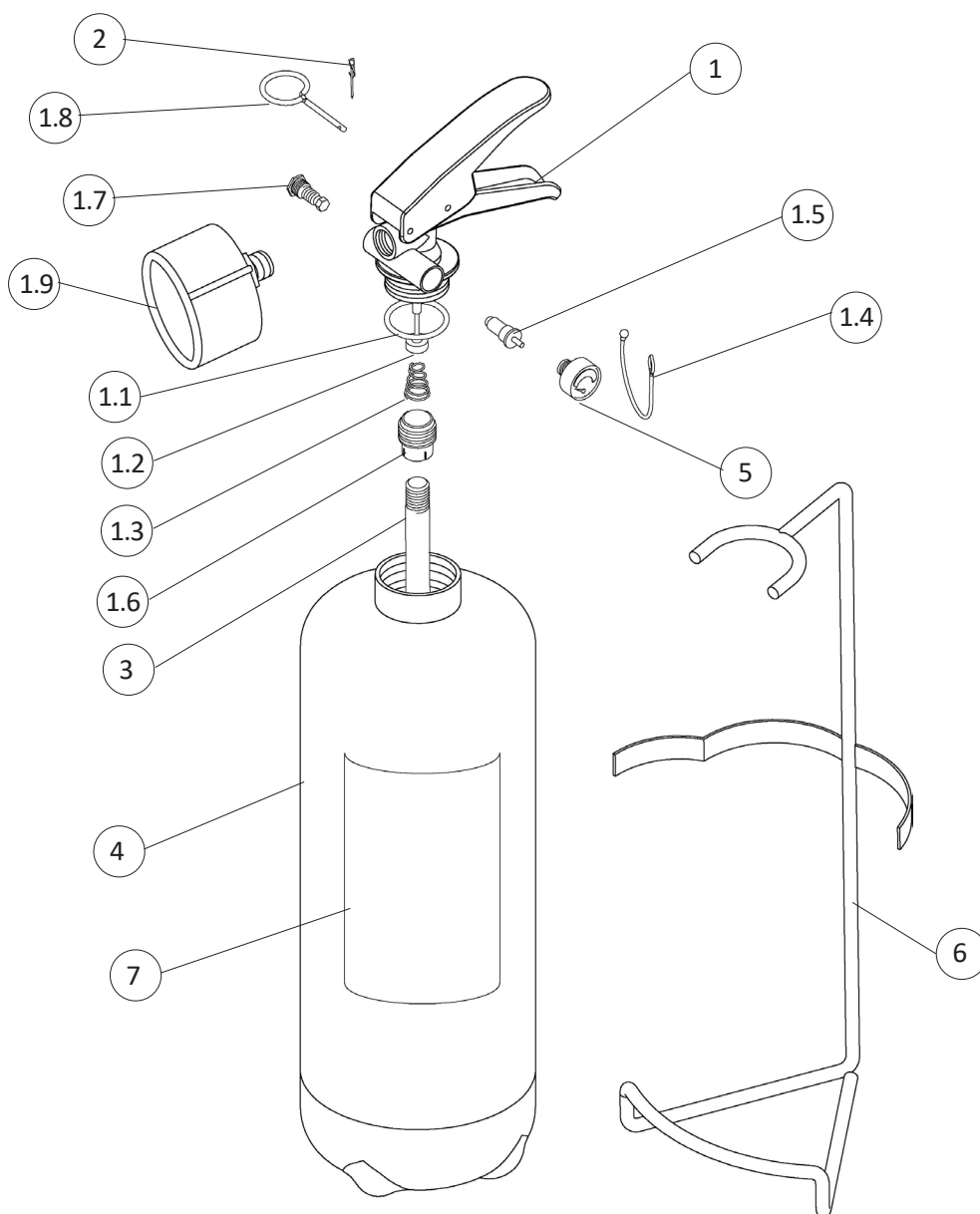


Table 1

NUM.	DESCRIPTION	
1	Valve M. 30x1.5	
1.1	O-ring valve	
1.2	Valve stem	
1.3	Internal spring of the valve	
1.4	Tamper seal (red)	
1.5	Test valve for pressure gauge	
1.6	Dip tube holder	
1.7	Safety device	
1.8	Safety pin	
1.9	Dispensing horn	
2	Safety pin seal (green)	
3	PVC dip tube	
4	Cylinder	
5	Pressure gauge	
6	Bracket	
7	Label	
	Foam refill (1 L. bottle, ready to use)	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.9
 "n.a." mean that the component is not available as single spare part

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 2 L Foam



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

- **CYLINDER**
In high-strength alloy steel, deep drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

2 L foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



For MED 2014/90/UE version:
cod. 27021



**FIRE
RATING :**



13



55



25

Portable Fire Extinguisher, 2 L Foam

TECHNICAL SPECIFICATIONS

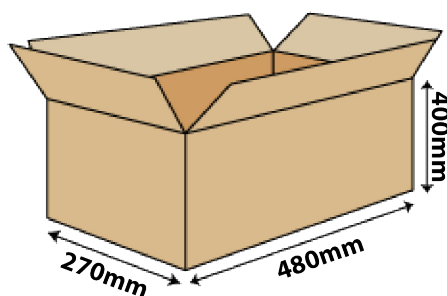
FIRE RATING	13 A 55 B 25 F
EXTINGUISHING AGENT	Foam EWAB15 (2 % SC-6 + 10 % Inilam AX + 88 % water)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	2 Liters
FULL WEIGHT	~ 3,9 Kg (with bracket)
DIMENSIONS	Height (base - valve) 370 +/- 5 mm Diameter (cylinder) 110 +/- 2 mm
DISCHARGE TIME	~ 10,5 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	2,4 L.
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL /INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour / Plastic coating

PACKAGING

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

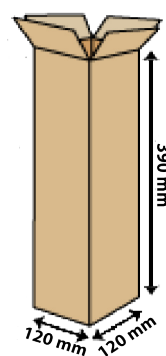
STANDARD

Note: minimum 8 pieces
Maximum nr. 256 pieces for pallet
(32 boxes with 8 pieces for each one)
Pallet dimensions 100x120 cm



ON REQUEST: SINGLE PACKAGING

- maximum 192 pieces on pallet 100x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 2 L Foam

COMPONENTS AND SPARE PARTS LIST

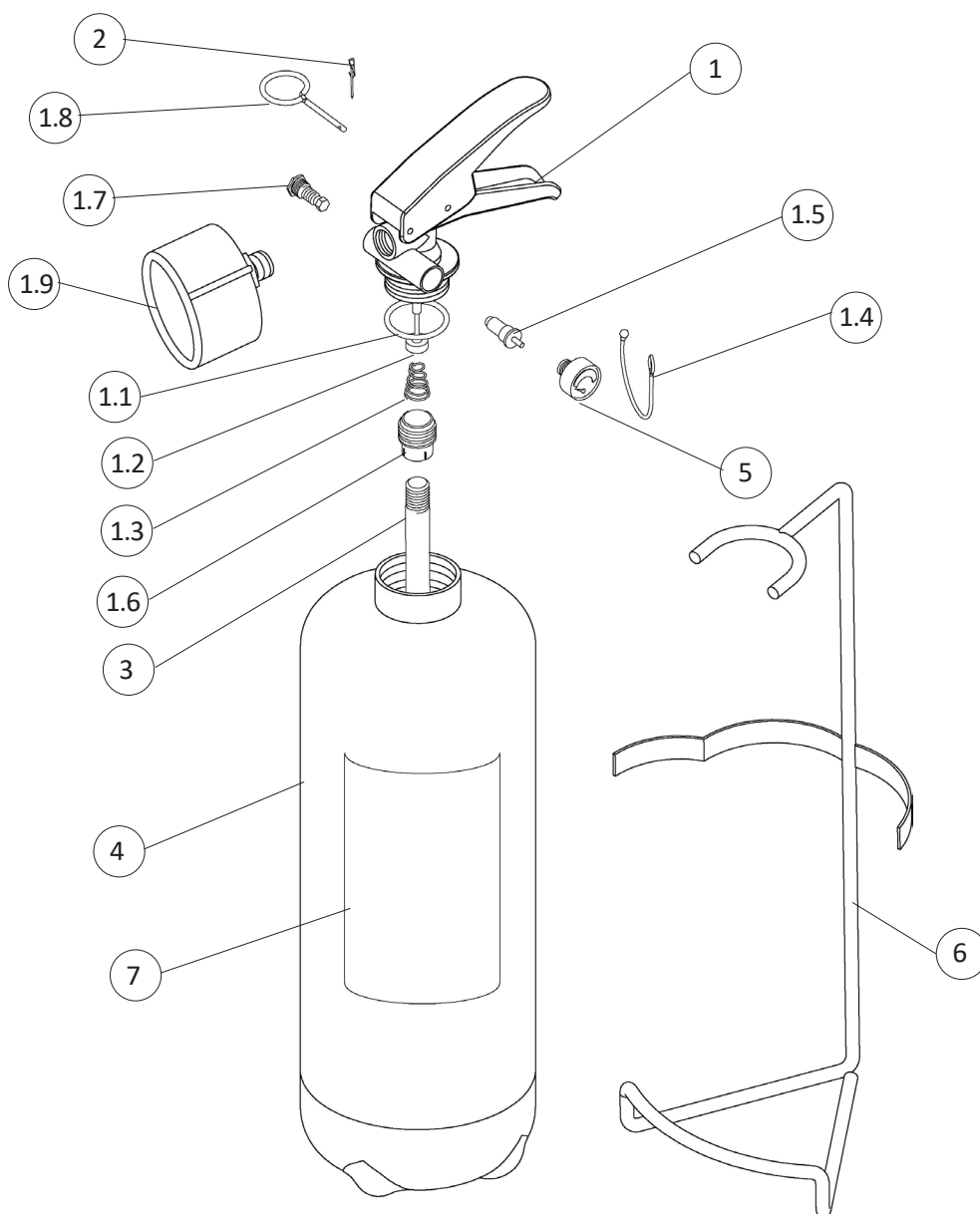


Table 1

NUM.	DESCRIPTION		NUM.	DESCRIPTION	
1	Valve M. 30x1.5		1.9	Dispensing horn	
1.1	O-ring valve		2	Safety pin seal (green)	
1.2	Valve stem		3	PVC dip tube	
1.3	Internal spring of the valve		4	Cylinder	
1.4	Tamper seal (red)		5	Pressure gauge	
1.5	Test valve for pressure gauge		6	Bracket	
1.6	Dip tube holder		7	Label	
1.7	Safety device			Foam refill (1 L. bottle, ready to use)	
1.8	Safety pin				

The spare part at number 1 includes already all others components indicated from 1.1 to 1.9
 "n.a." mean that the component is not available as single spare part

Use and Maintenance Technical Manual

BIOGENESIS



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Portable Fire Extinguisher, 2 L Foam



FROST RESISTANCE
(UP TO -30°C)

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

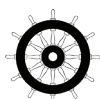
- **CYLINDER**
In high-strength alloy steel, deep drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B fire rating
(solid materials, flammable liquids).

2 L foam fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU** certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



8



55

Portable Fire Extinguisher, 2 L Foam

TECHNICAL SPECIFICATIONS

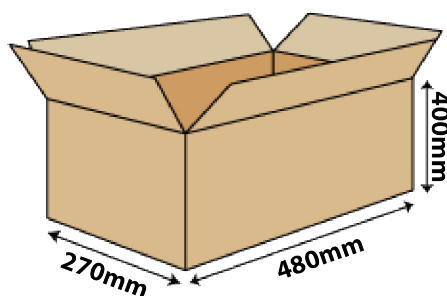
FIRE RATING	8 A 55 B
EXTINGUISHING AGENT	Foam -30°C (100 % Premix MG6 -30)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	2 Liters
FULL WEIGHT	~ 4,2 Kg (with bracket)
DIMENSIONS	Height (base - valve) 370 +/- 5 mm Diameter (cylinder) 110 +/- 2 mm
DISCHARGE TIME	~ 17,6 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	2,4 L.
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL /INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour / Plastic coating

PACKAGING

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

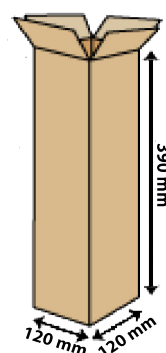
STANDARD

Note: minimum 8 pieces
Maximum nr. 256 pieces for pallet
(32 boxes with 8 pieces for each one)
Pallet dimensions 100x120 cm



ON REQUEST: SINGLE PACKAGING

- maximum 192 pieces on pallet 100x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 2 L Foam

COMPONENTS AND SPARE PARTS LIST

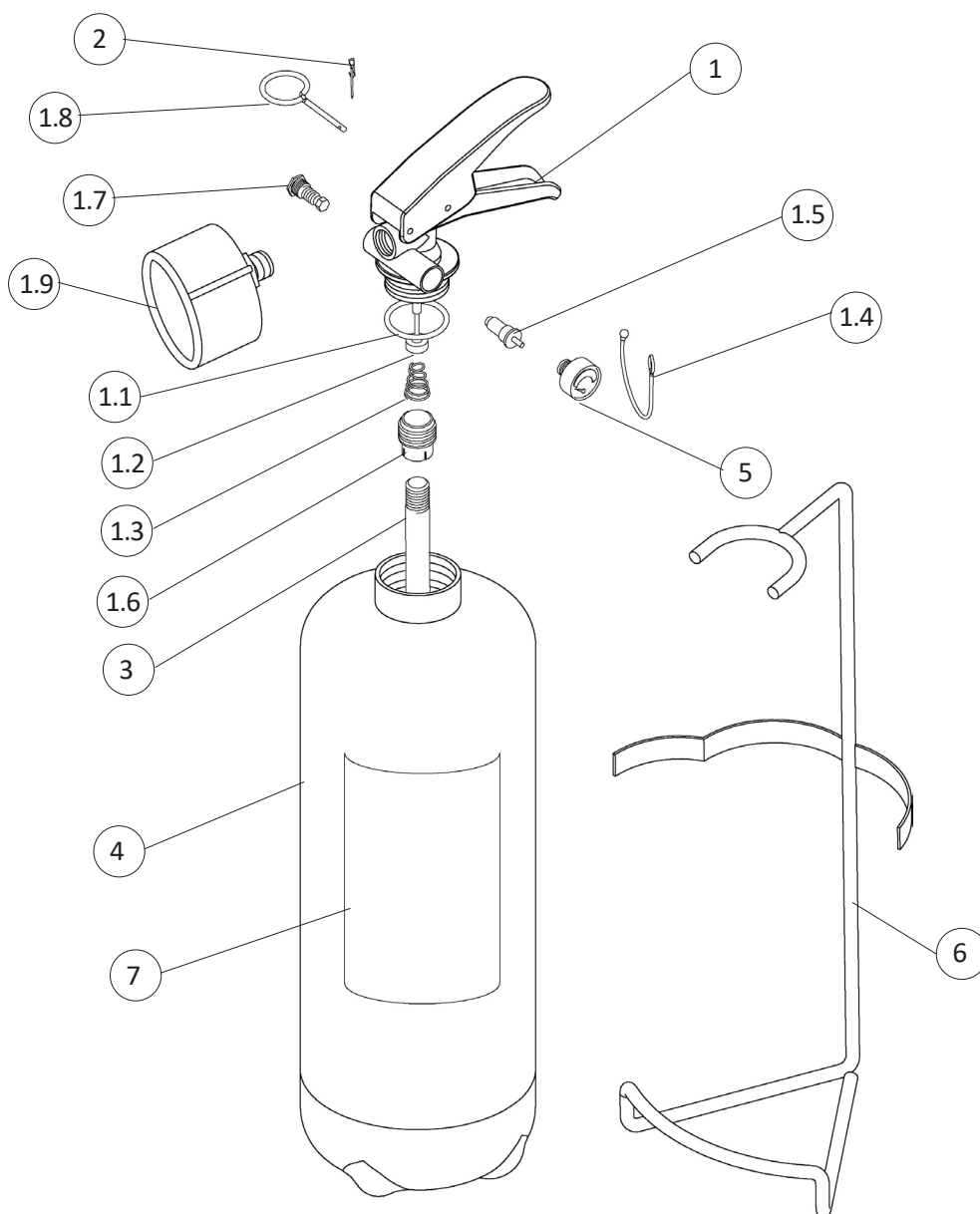


Table 1

NUM.	DESCRIPTION		NUM.	DESCRIPTION	
1	Valve M. 30x1.5		1.9	Dispensing horn	
1.1	O-ring valve		2	Safety pin seal (green)	
1.2	Valve stem		3	PVC dip tube	
1.3	Internal spring of the valve		4	Cylinder	
1.4	Tamper seal (red)		5	Pressure gauge	
1.5	Test valve for pressure gauge		6	Bracket	
1.6	Dip tube holder		7	Label	
1.7	Safety device			Foam refill (1 L. bottle, ready to use)	
1.8	Safety pin				

The spare part at number 1 includes already all others components indicated from 1.1 to 1.9
 "n.a." mean that the component is not available as single spare part



3 L. Foam FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Stainless steel AISI 304, 3 pieces drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 58x2, lightweight aluminum alloy AA6061 body, with external check valve, levers with black painting.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

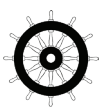
Note: image is for illustrative purpose only, the product purchased can has some differences

3 L. foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



13



113



40

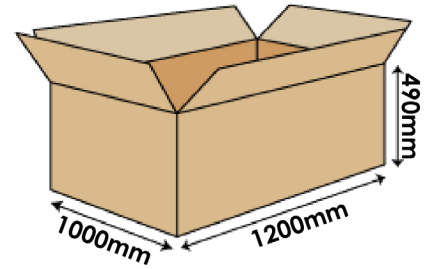
3 L. Foam FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

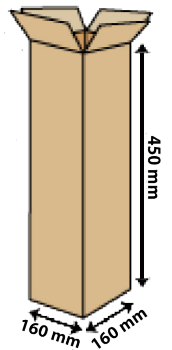
FIRE RATING	13 A 113 B 40 F
EXTINGUISHING AGENT	EWAB15 foam (2 % SC 6 + 12 % Inilam AX + 86 % Water)
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	3 L.
FULL WEIGHT	~ 4,8 Kg
DIMENSIONS	Height(base-valve) 445 mm Diameter 130 mm
DISCHARGE TIME	19 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	3,9 L.
SAFETY VALVE	Set between 22 and 27 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : maximum 126 pieces for pallet
(63 pieces for box, max 2 boxes for pallet)
Pallet dimensions 100x120x115(h) cm



SINGLE PACKAGING
ON REQUEST

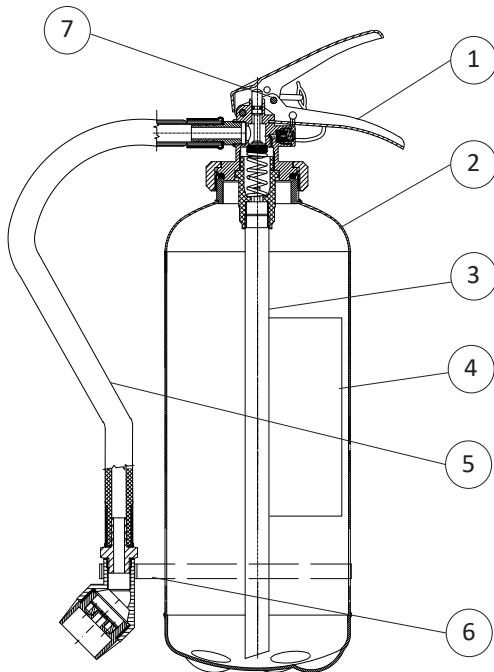


Note: the packaging quantities and measurements are indicative and can be subject at changes

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.

SPARE PARTS



NUMBER	DESCRIPTION	
1	Valve M. 58x2	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Stop hose band	
7	Safety pin	
	Safety valve	
	Safety pin seal	
	Check valve	
	EWAB15 foam (3 L. recharge, ready to use)	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Wall-mounted bracket for cylinder with clip, red painting	

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 L Foam



CLIP DETAIL



- **CYLINDER**
In high-strength alloy steel, deep drawing, with clip, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Fire extinguisher pressurized at moment of use with gr.55 CO₂ cartridge.
- **VALVE**
M. 74x2, lightweight aluminum alloy, activation with percussion method.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **BRACKET**
Wall-mounted bracket for fire extinguisher with clip, red painting, in standard equipment

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

6 L foam fire extinguisher, pressurized at moment of use, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according to productions checks as agreed with **EN 3-10**.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



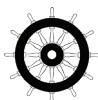
MPA
Dresden



EN 3-10
Inspection Certificate
N° 55840/21/NM/nmj



For version MED 2014/90/UE:
cod. 33063-1



**FIRE
RATING :**



34



233

Portable Fire Extinguisher, 6 L Foam

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B
EXTINGUISHING AGENT	Foam EWAB15 (1,5 % SC-6 + 7 % Inilam AX + 91,5 % Water)
PROPELLANT	Cartridge with gr. 55 CO ₂
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 10,6 Kg
DIMENSIONS	Height 510 (valve) / 525 (hose) +/- 5 mm Diameter (cylinder) 162 +/- 2 mm
DISCHARGE TIME	~ 35,2 seconds

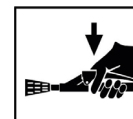
MODALITY OF USE



1) REMOVE SAFETY PIN



2) HOLD THE HOSE AND
PUSH THE RED BUTTON



3) SQUEEZE THE LEVER AIM THE
JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaining of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 L Foam



FLUORINE FREE ⁽¹⁾



New Nozzle Technology
allows the formation of such foam

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



PFOS
PFAS
PFOA

CLIP DETAIL

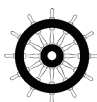


- **CYLINDER**
In high-strength alloy steel, deep drawing, with clip, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Fluorine free foam ⁽¹⁾, aqueous solution of carefully selected surfactants designed for use as foaming agents in a portable fire extinguisher.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with green painting Ral 6029.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

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6 L foam fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10**. Certified by **Benor**. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



27



144



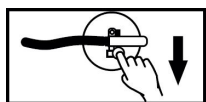
25

Portable Fire Extinguisher, 6 L Foam

TECHNICAL SPECIFICATIONS

FIRE RATING	27 A 144 B 25 F
EXTINGUISHING AGENT	Foam: 100% FFX 150 (Orchidee)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 10,0 Kg
DIMENSIONS	Height (base - valve) 540 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 49,7 seconds

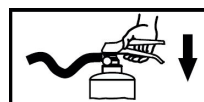
MODALITY OF USE



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on themarket, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaning of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.

(1) The Additive used to make the extinguishing agent does not contains fluorine.

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 L Foam



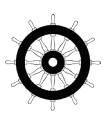
- **CYLINDER**
Stainless steel, 3 pieces drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
CPF M. 30x1.5, brass body, with anti-corrosion treatment.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

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

6 L foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



MPA
Dresden



**FIRE
RATING :**



27



233



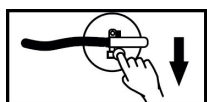
40

Portable Fire Extinguisher, 6 L Foam

TECHNICAL SPECIFICATIONS

FIRE RATING	27 A 233 B 40 F
EXTINGUISHING AGENT	Foam EWAB15 (2 % SC-6 + 10 % Inilam AX + 88 % Acqua)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 8,8 Kg
DIMENSIONS	Height (base - valve) 530 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 43,5 seconds

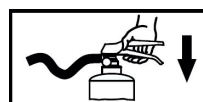
MODALITY OF USE



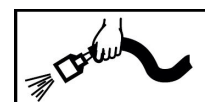
1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force. The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label. It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on themarket, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaning of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
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Portable Fire Extinguisher, 6 L Foam

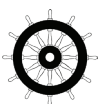
**TESTED SUCCESSFULLY ON
LITHIUM BATTERY WITH CAPACITY:**



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

6 L foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU** certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10** Quality Product certification guaranteed by Bureau Veritas Italia.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



27



233



40



750 Wh

36 V — 750 Wh — 20,1 Ah



DIELECTRIC

Suitable for use on fire involving electrical voltages up to 1.000 V, at a minimum distance of 1 meter.

CYLINDER

Stainless steel, 3 pieces drawing, external powder painting Red Ral 3000.

EXTINGUISHING AGENT

Water-based with foaming additives.

PROPELLANT

Dehumidified air or nitrogen (N₂).

VALVOLE

CPF M. 30x1.5, brass body, with anti-corrosion treatment.

USE

Class A Fires (solid materials)
Class B Fires (flammable liquids)
Class F Fires (cooking oils)
Lithium-ion batteries

Portable Fire Extinguisher, 6 L Foam

TECHNICAL SPECIFICATIONS

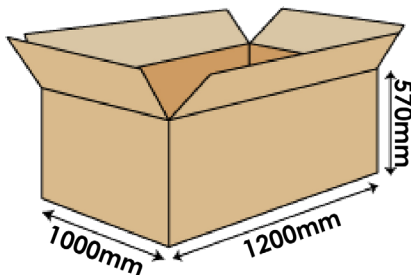
FIRE RATING	27 A 233 B 40 F
EXTINGUISHING AGENT	Foam EWAB15 (2 % SC-6 + 10 % Inilam AX + 88 % Water)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 8,8 Kg
DIMENSIONS	Height (base - valve) 530 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 43,5 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY DEVICE	Set between 20 and 24 bar
CYLINDER MATERIAL	Stainless steel
EXTERNAL /INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

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

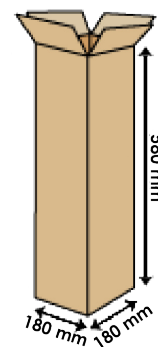
STANDARD

Maximum nr. 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces. single packaging)
Pallet dimensions 100x120x160(h) cm



ON REQUEST: SINGLE PACKAGING

- maximum 64 pieces on pallet 100x120
- maximum 48 pieces on pallet 80x120



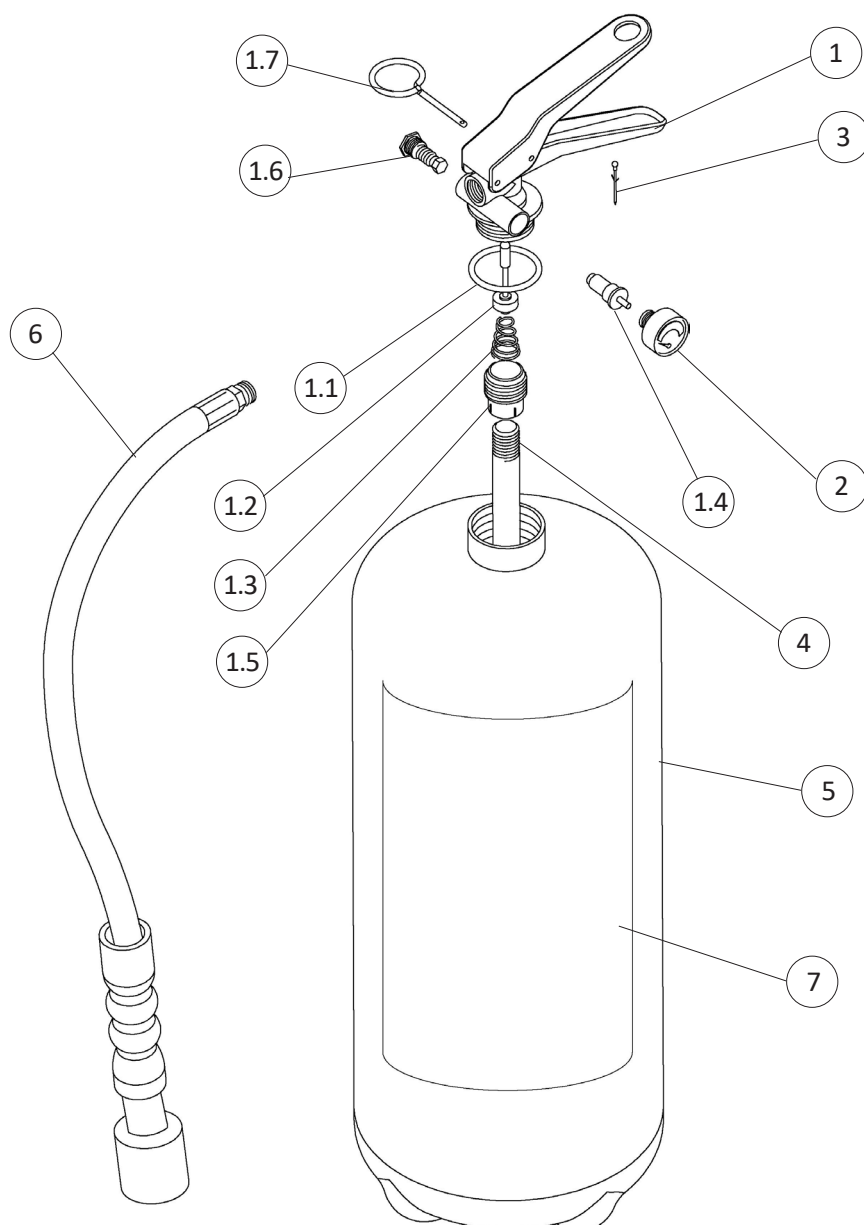
TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 6 L Foam

COMPONENTS AND SPARE PARTS LIST



Prospetto 1

NUM.	DESCRIZIONE	
1	Valve M. 30x1.5	
1.1	O-ring valve	
1.2	Valve stem	
1.3	Internal spring of the valve	
1.4	Test valve for pressure gauge	
1.5	Dip tube holder	
1.6	Safety device	
1.7	Safety pin	
2	Pressure gauge	
3	Safety pin seal (green)	

NUM.	DESCRIZIONE	
4	PVC dip tube	
5	Cylinder	
6	Hose with dispensing nozzle	
7	Label	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	
	Foam refill (6 L. bottle, ready to use)	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.7



6 L. Foam FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, epoxypolyester powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

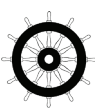
Note: image is for illustrative purpose only, the product purchased can has some differences

6 L. foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



27



233



40

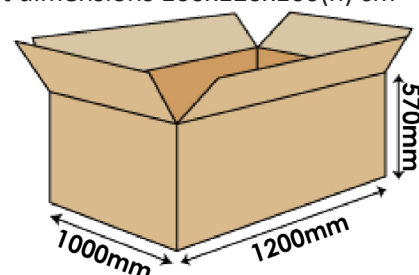
6 L. Foam FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	27 A 233 B 40 F
EXTINGUISHING AGENT	EWAB15 foam (2 % SC 6 + 10 % Inilam AX + 88 % Water)
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	6 L.
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height(base-valve) 540 mm Diameter 160 mm
DISCHARGE TIME	43 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,5 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ Internal plastic lining

PACKAGING

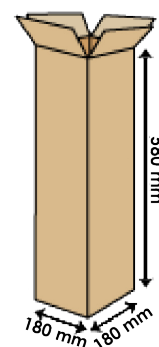
STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING

ON REQUEST:

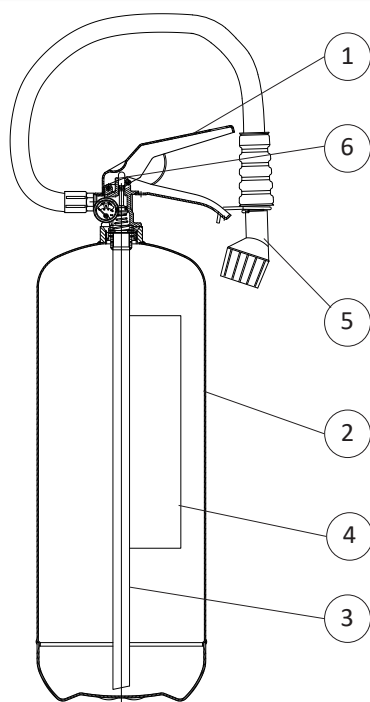
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
	Safety valve	
	Safety pin seal	
	EWAB15 foam (6 L. Recharge, ready to use)	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 L Foam

**TESTED SUCCESSFULLY ON
LITHIUM BATTERY WITH CAPACITY:**



36 V — 750 Wh — 20,1 Ah



DIELECTRIC

Suitable for use on fire involving electrical voltages up to 1.000 V, at a minimum distance of 1 meter.

CYLINDER

In high-strength alloy steel, deep drawing, external powder painting Red Ral 3000.

EXTINGUISHING AGENT

Water-based with foaming additives.

PROPELLANT

Dehumidified air or nitrogen (N₂).

VALVE

M. 30x1.5, brass body, levers with red painting Ral 3000.

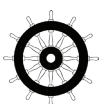
USE

Class A Fires (solid materials)
Class B Fires (flammable liquids)
Class F Fires (cooking oils)
Lithium-ion batteries

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

6 L foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



27



233



40



750 Wh

Portable Fire Extinguisher, 6 L Foam

TECHNICAL SPECIFICATIONS

FIRE RATING	27 A 233 B 40 F
EXTINGUISHING AGENT	Foam water-based EWAB15 (2 % SC-6 + 10 % Inilam AX + 88 % Water)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 9,6 Kg
DIMENSIONS	Height (base - valve) 540 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 43,5 seconds

Prerequisite when using the fire extinguisher on lithium batteries

According to tests executed with this fire extinguisher, it's possible to stop the combustion of a lithium-ion battery with a water based fire extinguisher with foam additives. It has been verified that the use of the fire extinguisher allows to lower the temperature and control any re-ignitions of the cells present inside the battery (generated by the chain reaction of the same and due to their shape inside the battery pack). The battery tested has a voltage of 36 V with a capacity of 20.1 Ah and an anergy value of 750 Wh. The fire extinguisher tested is therefore effective in containing the flames emanated from a battery with same or inferior characteristics compared to the one tested. a.

**NOTE: the test was executed on a new battery and so at full efficiency.*

SAFETY WARNING



Carefully read the note in paragraph "4B" regarding precautions for use on batteries

*The combustion of lithium-ion batteries releases very harmful gases and fumes.
Direct exposure to high concentrations of gases emanating from the combustion of lithium-ion batteries can cause serious damage to health. Lithium-ion batteries can have unpredictable phenomena during fire, such as explosive reactions caused by the pressure of the cells inside the battery pack. it's advisable to use appropriate safety devices.
The use of fire extinguisher is recommended for professional and expert staff.
The use of fire extinguisher by uninformed people can lead to lower results and cause damage to involved people.*

DISCLAIMER

The result of the tests performed refers exclusively to the fire extinguisher model used during the tests themselves. The fast development of lithium-ion batteries and portable fire extinguishers means that the performance achieved during the test phase is not guaranteed when using lithium-ion batteries or shutdown techniques other than those tested. It is not possible to understand where and to what extent these fire extinguishers can be installed due to the outer casing of the lithium-ion battery pack.

The fire extinguishers tested are intended to help contain the principle of fire resulting from the triggering of a lithium-ion battery.

Portable Fire Extinguisher, 6 L Foam

INSTALLATION AND MODALITY OF USE

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

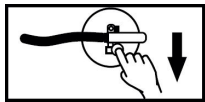
It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

PRECAUTIONS FOR THE USE

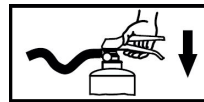
1) Follow the instructions present on the marking label.



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

A) USE ON STANDARD FIRES

2) Do not through the fire extinguisher on to the direct flames.

3) This fire extinguisher is a pressurized vessel and must not be pierced, dented or subjected to external damage.

4) Do not direct the jet on the people.

B) USE ON BATTERIES FIRES



2) In case of use of the fire extinguisher on fires from lithium-ion batteries, it's advisable to keep the security gap during dispensing.

3) Do not expose yourself directly to the flames during dispensing.

4) Dispense the extinguishing with regular intervals. Do not dispense it in a single intervention.

5) Let the extinguishing penetrate inside the casing containing the battery pack.

6) This fire extinguisher is a pressure container and must not be drilled, dented or submitted to external alterations.

7) Don't aim the jet at people.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaining of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 L Foam



- **CYLINDER**
In high-strength alloy steel, deep drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
CPF M. 30x1.5, brass body, with anti-corrosion treatment.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

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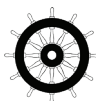
Note: image is for illustrative purpose only, the product purchased can has some difference

6 L foam fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



43



233



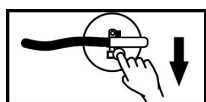
75

Portable Fire Extinguisher, 6 L Foam

TECHNICAL SPECIFICATIONS

FIRE RATING	43 A 233 B 75 F
EXTINGUISHING AGENT	Foam EWAB1
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 9,65 Kg
DIMENSIONS	Height (base - valve) 540 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 20,9 seconds

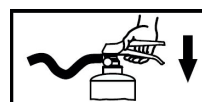
MODALITY OF USE



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on themarket, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaning of the product efficiency have to be carried out from the responsible person.

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It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.



6 L. Foam FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Stainless steel AISI 304, 3 pieces drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 58x2, lightweight aluminum alloy AA6061 body, with external check valve, levers with black painting.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

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

6 L. foam fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M.7.1.2005)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



43



233



40

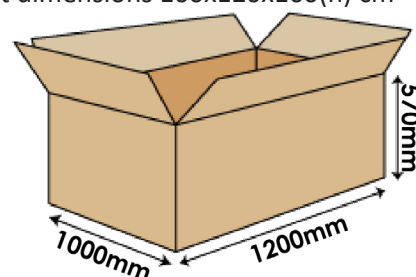
6 L. Foam FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	43 A 233 B 40 F
EXTINGUISHING AGENT	EWAB1 foam (2 % SC 6 + 10 % Inilam AX + 88 % Water)
PROPELLANT	Dehumidified air or N ₂ , 15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 L.
FULL WEIGHT	~ 8,6 Kg
DIMENSIONS	Height(base-valve) 550 mm Diameter 160 mm
DISCHARGE TIME	21 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 22 and 27 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

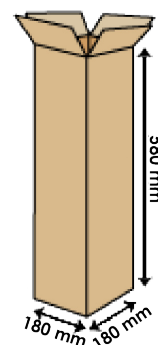
STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING

ON REQUEST:

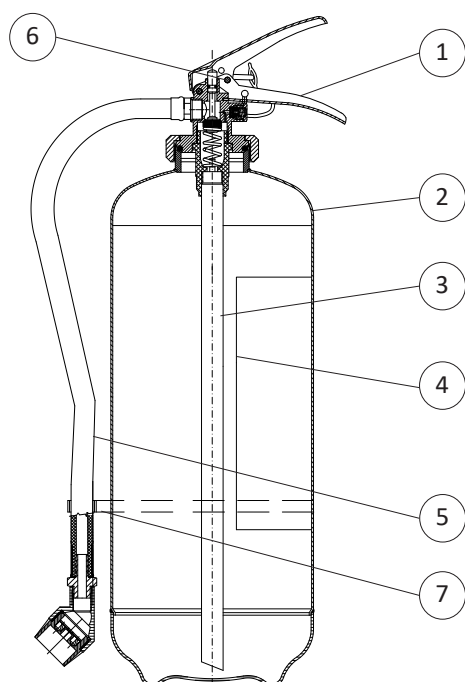
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 58x2	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
7	Stop hose ring	
	Safety valve	
	Safety pin seal	
	Check valve	
	EWAB1 foam (6 L. recharge, ready to use)	
OPTIONAL	Wall-mounted bracket for cylinder with clip, red painting	



6 L. Foam FIRE EXTINGUISHER



- **CYLINDER**
Stainless steel AISI 304, 3 pieces drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
CPF M. 30x1.5, brass body, with anti-corrosion treatment.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

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

6 L. foam fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



43



233



75

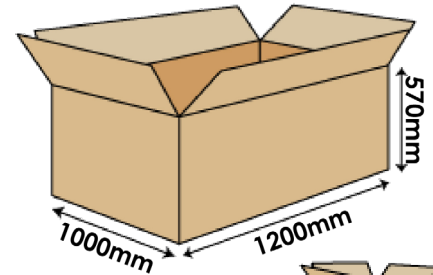
6 L. Foam FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	43 A 233 B 75 F
EXTINGUISHING AGENT	EWAB1 foam
PROPELLANT	Dehumidified air or N ₂ , 15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 L.
FULL WEIGHT	~ 8,4 Kg
DIMENSIONS	Height(base-valve) 535 mm Diameter 160 mm
DISCHARGE TIME	21 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 20 and 24 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

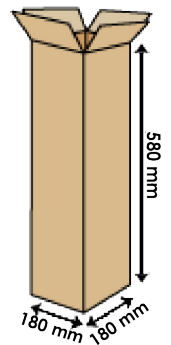
STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING

ON REQUEST:

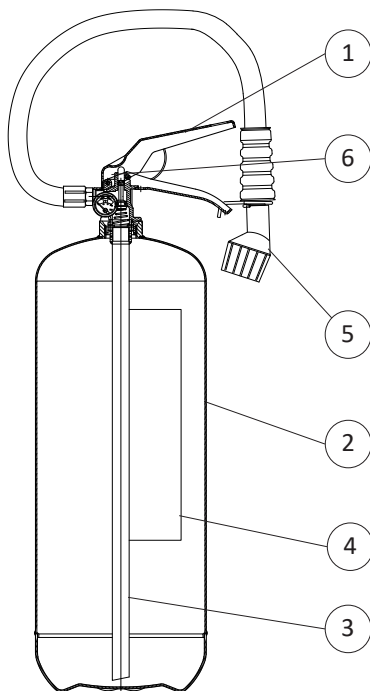
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
	Safety valve	
	Safety pin seal	
	EWAB1 foam (6 L. recharge, ready to use)	

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 L Foam




**SUITABLE ON
POLAR SOLVENTS**


**FROST RESISTANCE
(UP TO -30°C)**

- **CYLINDER**
Stainless steel, 3 pieces drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

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

6 L foam fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34



233



75

Portable Fire Extinguisher, 6 L Foam

TECHNICAL SPECIFICATIONS

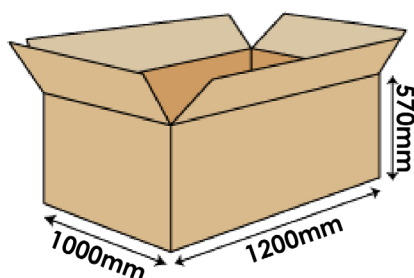
FIRE RATING	34 A 233 B 75 F
EXTINGUISHING AGENT	Foam EW-30 (100 % Premix MG6 -30)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 9,5 Kg
DIMENSIONS	Height (base - valve) 530 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 29 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Stainless steel
EXTERNAL /INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

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

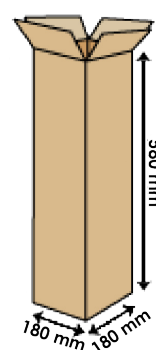
STANDARD

Maximum nr. 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces. single packaging)
Pallet dimensions 100x120x160(h) cm



ON REQUEST: SINGLE PACKAGING

- maximum 64 pieces on pallet 100x120
- maximum 48 pieces on pallet 80x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 6 L Foam

COMPONENTS AND SPARE PARTS LIST

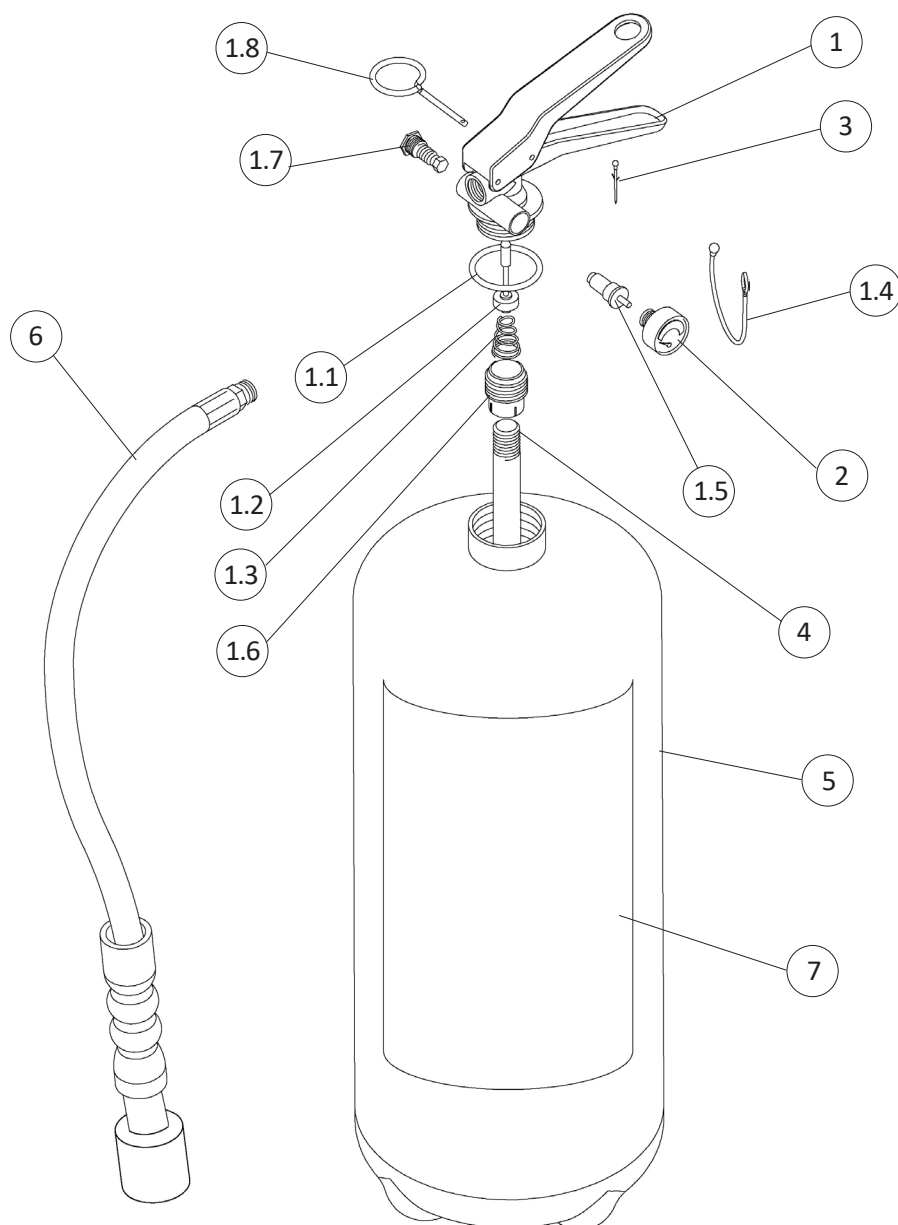


Table 1

NUM.	DESCRIPTION	
1	Valve M. 30x1.5	
1.1	O-ring valve	
1.2	Valve stem	
1.3	Internal spring of the valve	
1.4	Tamper seal (red)	
1.5	Test valve for pressure gauge	
1.6	Dip tube holder	
1.7	Safety device	
1.8	Safety pin	
2	Pressure gauge	
3	Safety pin seal (green)	

NUM.	DESCRIPTION	
4	PVC dip tube	
5	Cylinder	
6	Hose with dispensing nozzle	
7	Label	
	Foam refill (6 L. bottle, ready to use)	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.7

Use and Maintenance Technical Manual

BIOGENESIS



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Portable Fire Extinguisher, 6 L Foam



FROST RESISTANCE
(UP TO -30°C)

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

- **CYLINDER**
In high-strength alloy steel, deep drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
CPF M. 30x1.5, brass body, with anti-corrosion treatment.
- **USE**
A B fire rating
(solid materials, flammable liquids).

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6 L foam fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



21

183

Portable Fire Extinguisher, 6 L Foam

TECHNICAL SPECIFICATIONS

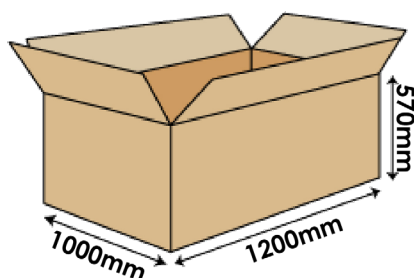
FIRE RATING	21 A 183 B
EXTINGUISHING AGENT	Foam -30°C (100 % Premix MG6 -30)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Liters
FULL WEIGHT	~ 10,40 Kg
DIMENSIONS	Height (base - valve) 540 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 41,7 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,5 L.
SAFETY DEVICE	Set between 20 and 24 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL /INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour / Plastic coating

PACKAGING

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

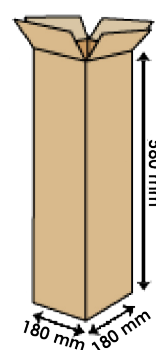
STANDARD

Maximum nr. 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces. single packaging)
Pallet dimensions 100x120x160(h) cm



ON REQUEST: SINGLE PACKAGING

- maximum 64 pieces on pallet 100x120
- maximum 48 pieces on pallet 80x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 6 L Foam

COMPONENTS AND SPARE PARTS LIST

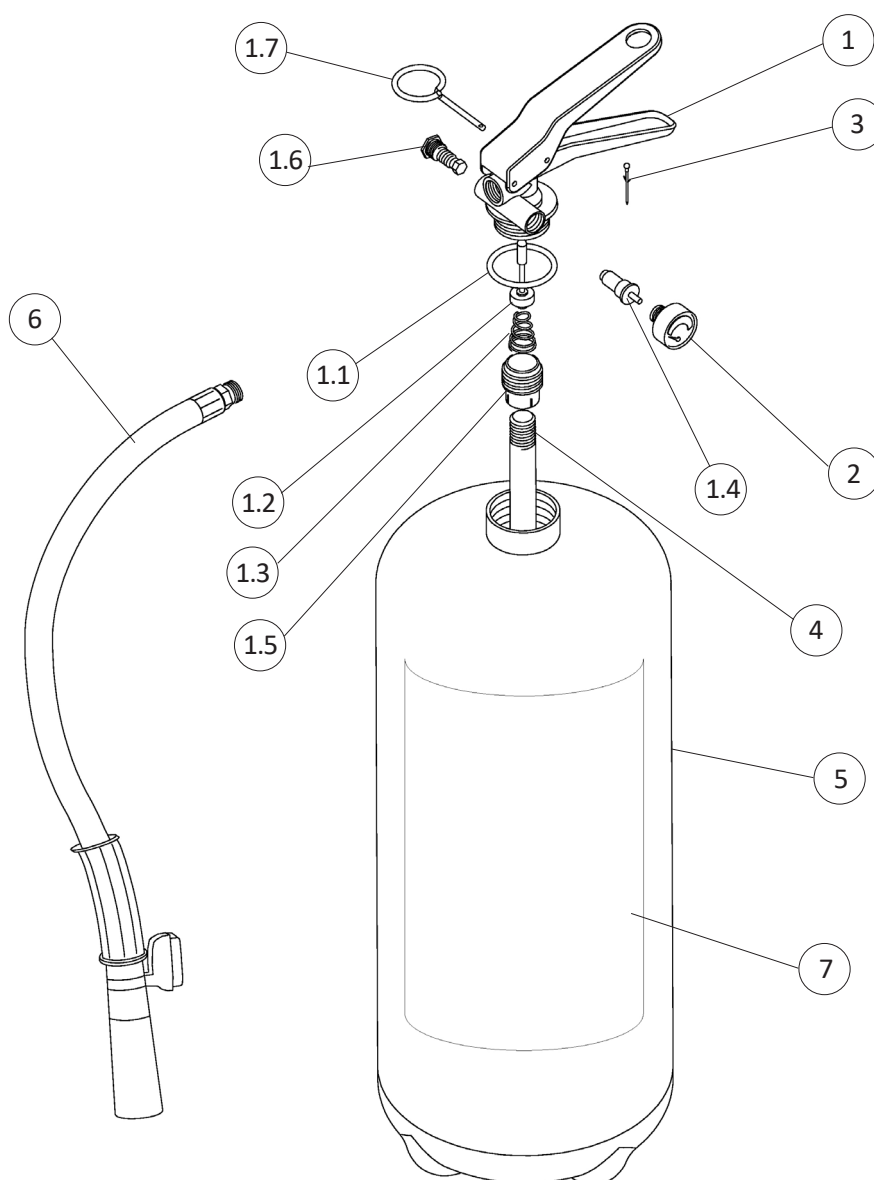


Table 1

NUM.	DESCRIPTION	
1	Valve M. 30x1.5	
1.1	O-ring valve	
1.2	Valve stem	
1.3	Internal spring of the valve	
1.4	Test valve for pressure gauge	
1.5	Dip tube holder	
1.6	Safety device	
1.7	Safety pin	
2	Pressure gauge	

NUM.	DESCRIPTION	
3	Safety pin seal (green)	
4	PVC dip tube	
5	Cylinder	
6	Hose with dispensing nozzle and magnet	
7	Label	
	Foam refill (6 L. bottle, ready to use)	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.7



6 L. Water + Additive FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B fire rating
(solid materials, flammable liquids).

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

6 L. water + additive fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



21



183

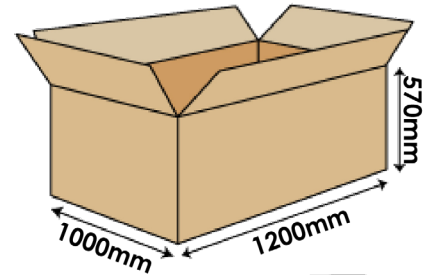
6 L. Water + Additive FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	21 A 183 B
EXTINGUISHING AGENT	99 % Water + 1 % EW-B (orchidee)
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 L.
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height(base-valve) 540 mm Diameter 160 mm
DISCHARGE TIME	21 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,5 L.
SAFETY VALVE	Set 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ Internal plastic lining

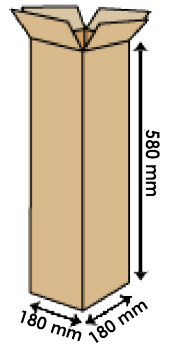
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

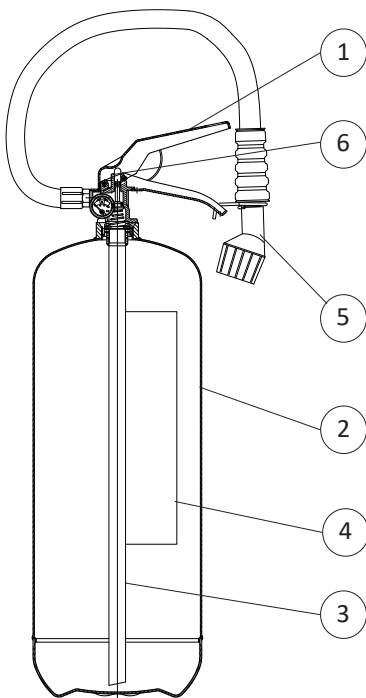
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
	Safety valve	
	Safety pin seal	
	Water + additive EW-B (6 L. Recharge, ready to use)	

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
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Portable Fire Extinguisher, 9 L Foam



CLIP DETAIL



- **CYLINDER**
In high-strength alloy steel, deep drawing, with clip, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Water-based foam.
- **PROPELLANT**
Fire extinguisher pressurized at moment of use with gr.75 CO₂ cartridge.
- **VALVE**
M. 74x2, lightweight aluminum alloy, activation with percussion method.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **BRACKET**
Wall-mounted bracket for fire extinguisher with clip, red painting, in standard equipment

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

9 L foam fire extinguisher, pressurized at moment of use, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Manufactured according at productions checks as agreed with **EN 3-10**.

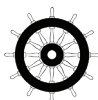
Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a minimum distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



For version MED 2014/90/UE:
cod. 33094-1



**FIRE
RATING :**



43



233

Portable Fire Extinguisher, 9 L Foam

TECHNICAL SPECIFICATIONS

FIRE RATING	43 A 233 B
EXTINGUISHING AGENT	Foam EWAB15 (1,5 % SC-6 + 7 % Inilam AX + 91,5 % Water)
PROPELLANT	Cartridge with gr. 75 CO ₂
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	9 Liters
FULL WEIGHT	~ 14,8 Kg
DIMENSIONS	Height 565 (valve) / 580 (hose) +/- 5 mm Diameter (cylinder) 182 +/- 2 mm
DISCHARGE TIME	~ 52,1 seconds

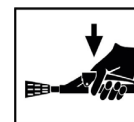
MODALITY OF USE



1) REMOVE SAFETY PIN



2) HOLD THE HOSE AND
PUSH THE RED BUTTON



3) SQUEEZE THE LEVER AIM THE
JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force. The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaining of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.

BIOGENESIS



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9 L. Foam FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Alloy steel, 3 pieces drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).

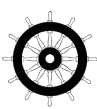
Note: image is for illustrative purpose only, the product purchased can has some differences

9 L. foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



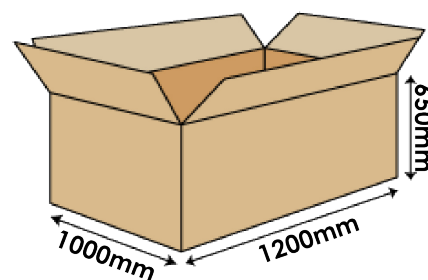
9 L. Foam FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

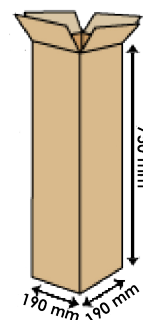
FIRE RATING	43 A 233 B 40 F
EXTINGUISHING AGENT	EWAB15 foam (2 % SC 6 + 10 % Inilam AX + 88 % Water)
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	9 L.
FULL WEIGHT	~ 14 Kg
DIMENSIONS	Height(base-valve) 635 mm Diameter 170 mm
DISCHARGE TIME	29 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	10,7 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ Internal plastic lining

PACKAGING

STANDARD : maximum 40 pieces for pallet
(40 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x80(h) cm



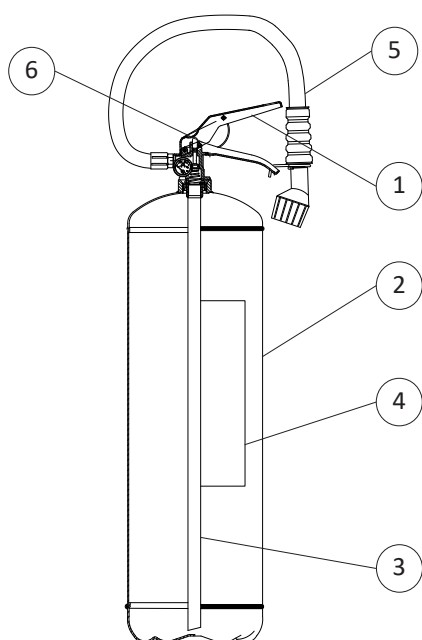
SINGLE PACKAGING
ON REQUEST:
- maximum 40 pieces
on pallet 100x120



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
	Safety valve	
	Safety pin seal	
	EWAB15 foam (9 L. recharge, ready to use)	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Wall-mounted bracket for cylinder with clip, red painting	



9 L. Foam FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Alloy steel, 3 pieces drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
CPF M. 30x1.5, brass body, with anti-corrosion treatment.
- **USE**
A B F fire rating
(solid materials, flammable liquids, cooking oils).
- **BRACKET**
Wall-mounted for valve, in standard equipment.

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

9 L. foam fire extinguisher, temperature range from 0°C to +60°C, manufactured in accordance to **EN 3-7:2008**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 35'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



43



233



40

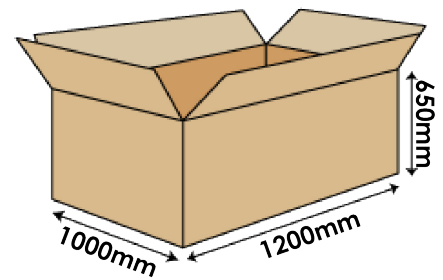
9 L. Foam FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

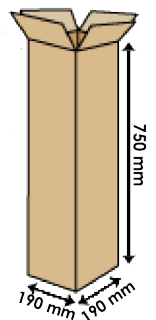
FIRE RATING	43 A 233 B 40 F
EXTINGUISHING AGENT	EWAB15 foam (2 % SC 6 + 15 % Inilam AX + 83 % Water)
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	0°C / +60°C
NOMINAL CHARGE	9 L.
FULL WEIGHT	~ 14 Kg
DIMENSIONS	Height 630 mm Diameter 170 mm
DISCHARGE TIME	29 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	10,7 L.
SAFETY VALVE	Set 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ Internal plastic lining

PACKAGING

STANDARD : maximum 40 pieces for pallet
(40 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x80(h) cm



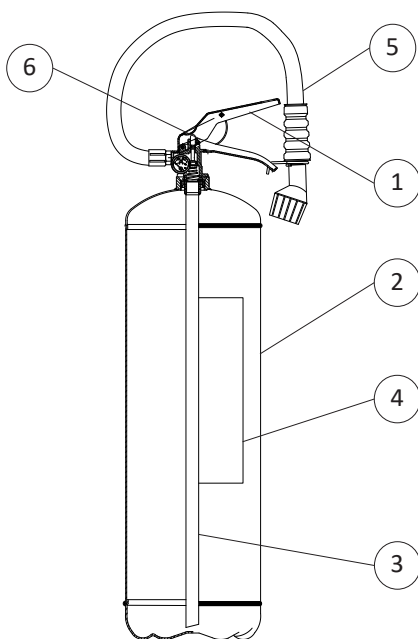
SINGLE PACKAGING
ON REQUEST:
- maximum 40 pieces
on pallet 100x120



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
	Safety pin seal	
	EWAB15 foam (9 L. recharge, ready to use)	
OPTIONAL	Wall-mounted bracket for fire extinguisher with clip, red painting	



9 L. Foam FIRE EXTINGUISHER



CLIP DETAIL



FROST RESISTANCE
(UP TO -30°C)

Note: image is for illustrative purpose only, the product purchased can have some differences

- **CYLINDER**
Alloy steel, 3 pieces drawing, with clip, epoxypolyester powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water foam.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B fire rating
(solid materials, flammable liquids).

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9 L. foam fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



21

183

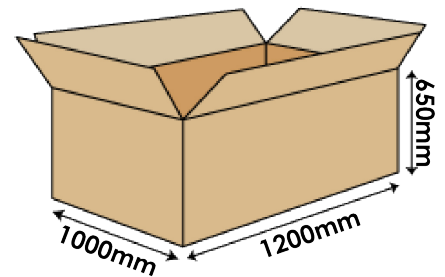
9 L. Foam FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

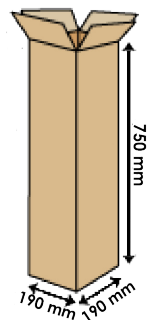
FIRE RATING	21 A 183 B
EXTINGUISHING AGENT	EW-30 foam (100 % Premix MG6 -30)
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	9 L.
FULL WEIGHT	~ 15,1 Kg
DIMENSIONS	Height(base-valve) 635 mm Diameter 170 mm
DISCHARGE TIME	34,5 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	10,7 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ Internal plastic lining

PACKAGING

STANDARD : maximum 40 pieces for pallet
(40 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x80(h) cm



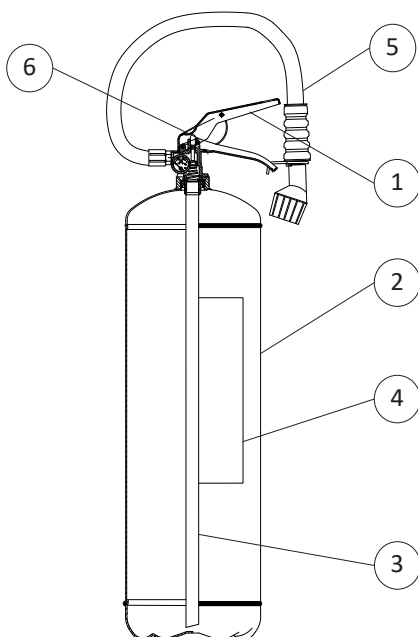
SINGLE PACKAGING
ON REQUEST:
- maximum 40 pieces
on pallet 100x120



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
	Safety valve	
	Safety pin seal	
	EW-30 foam (9 L. recharge, ready to use)	
OPTIONAL	Wall-mounted bracket for cylinder with clip, red painting	

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Wheeled Fire Extinguisher, 25 L Water + Additive

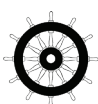


Note: image is for illustrative purpose only, the product purchased can have some differences

- **CYLINDER**
Stainless steel AISI 304, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water + additive .
- **PROPELLANT**
Dehumidified air or Nitrogen (N₂).
- **VALVE**
2"-F , brass body, lever with red painting Ral 3000.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

25 L water + additive wheeled fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 1866-1 (D.M. 6.3.92)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.
Quality Product certification guaranteed by Bureau Veritas Italia.
Suitable for use on fire involving electrical voltages up to 1.000 V, at a distance of 1 meter.

APPROVED\CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



Wheeled Fire Extinguisher, 25 L Water + Additive

TECHNICAL SPECIFICATIONS

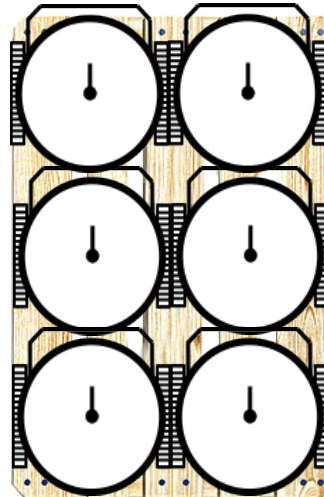
FIRE RATING	A IV B
EXTINGUISHING AGENT	Water+ additive (2 % SC-6 orchidee + 98 % Water)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	25 L.
FULL WEIGHT	~ 45 Kg
DIMENSIONS	Height 930 +/-10 mm ; Width 420 +/-10 mm Depth 480 +/-15 mm
DISCHARGE TIME	~ 27,6 seconds
VALVE TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	31 L.
SAFETY DEVICE	Set between 21 and 26 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL\INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour.

PACKAGING

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

STANDARD

Maximum nr. 6 pieces for pallet
Dimensions pallet 100x120x120(h) cm



TRANSPORT PROVISIONS

Land transport : ADR exemption as provision 594

Sea transport : IMDG - UN 1044 code 2.2 class Extinguishers

Wheeled Fire Extinguisher, 25 L Water + Additive

COMPONENTS AND SPARE PARTS

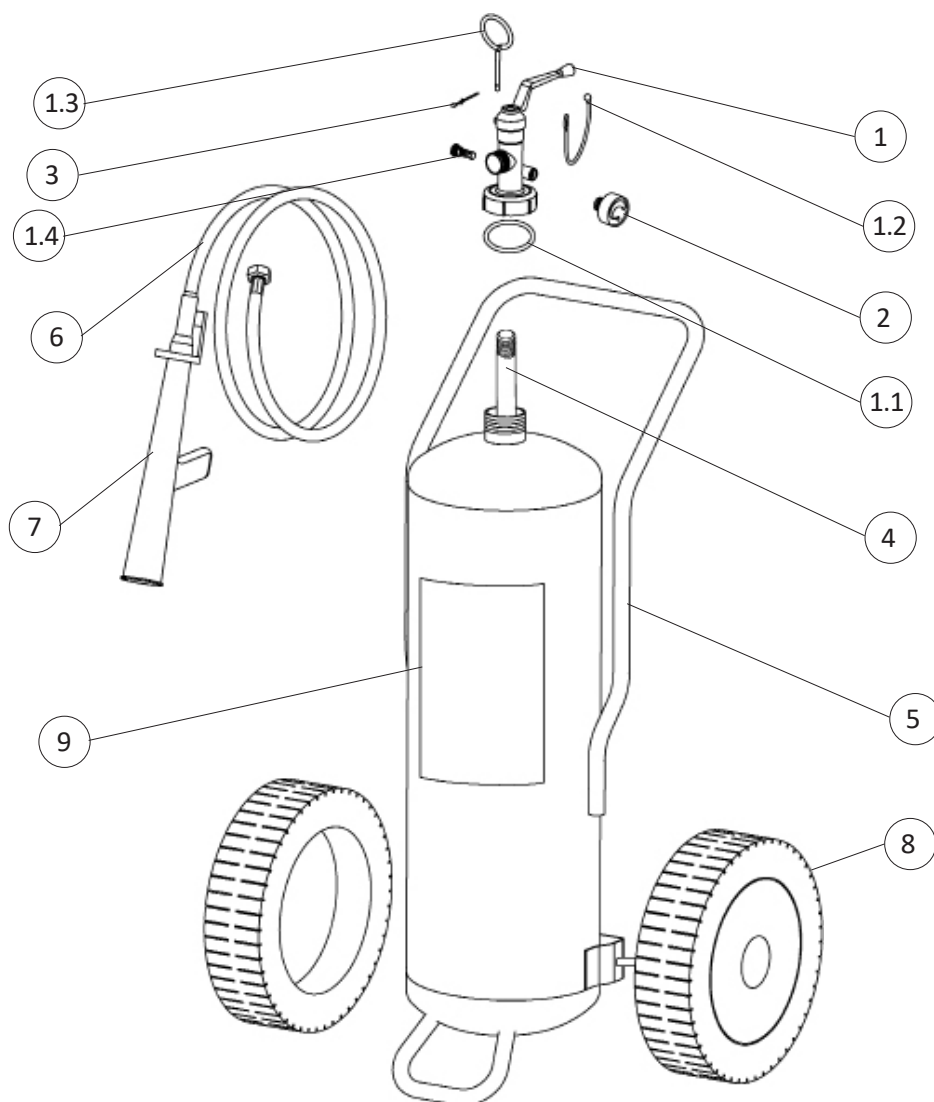


Table 1

NUM.	DESCRIPTION	
1	Valve 2"-F	
1.1	O-ring	
1.2	Tamper seal (red)	
1.3	Safety pin	
1.4	Safety device	
2	Pressure gauge	
3	Safety pin holder (green)	
4	PVC dip tube	

NUM.	DESCRIPTION	
5	Cylinder	
6	Hose	
7	Dispensing nozzle (complete of ball valve with control lever and inox filter for foaming)	
8	Wheel + wheel stop (diam. 300mm)	
9	Label	
	Additive (1 Lt. concentrate) (To mix with water, suitable for 2 recharge)	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.4



50 L. Water + Additive WHEELED FIRE EXTINGUISHER



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

- **CYLINDER**
Stainless steel AISI 304, powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water + additive .
- **PROPELLANT**
Dehumidified air or N₂ .
- **VALVE**
2"-F , brass body, lever with red painting Ral 3000.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

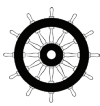
50 L. water + additive wheeled fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 1866-1 (D.M. 6.3.92)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

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APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



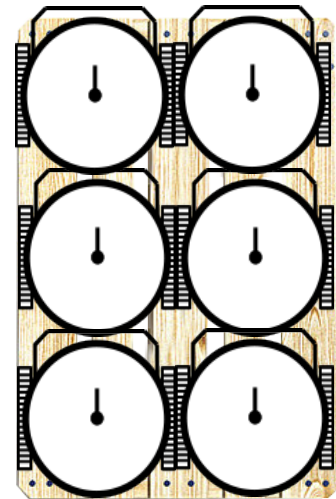
50 L. Water + Additive WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A IV B
EXTINGUISHING AGENT	Water + additive (98 % Water + 2 % SC-6)
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	50 L.
FULL WEIGHT	~ 76,5 Kg
DIMENSIONS	Height 1100 +/-5 mm Width 490 +/-5 mm Depth 560 +/-5 mm
DISCHARGE TIME	~ 52,3 sec.
VALVE TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	62 L.
SAFETY DEVICE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL/INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

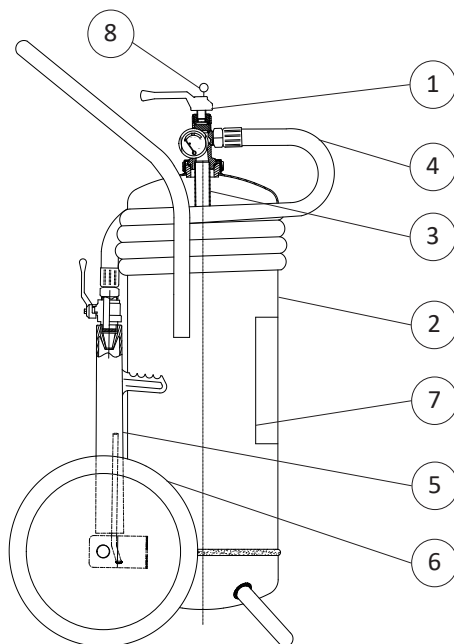
STANDARD : maximum 6 pieces for pallet
Pallet dimensions 100x120x135(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve 2''-F	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 300mm)	
7	Label	
8	Safety pin	
	Safety device	
	Safety pin seal	
	Additive (1 Lt. concentrate) (To mix with water, suitable for 1 recharge)	



100 L. Water + Additive WHEELED FIRE EXTINGUISHER



- **CYLINDER**
Stainless steel AISI 304, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water + additive .
- **PROPELLANT**
Dehumidified air or N₂ .
- **VALVE**
2"-F , brass body, lever with red painting Ral 3000.
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

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

100 L. water + additive wheeled fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 1866-1 (D.M. 6.3.92)** , certified according to the directive for pressure equipment PED 2014/68/EU. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



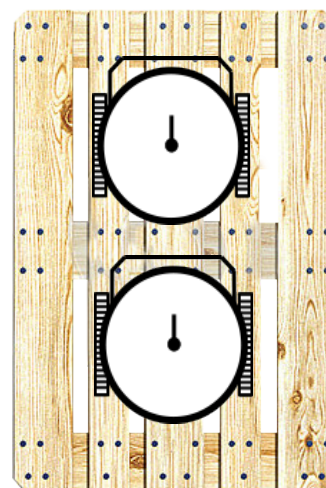
100 L. Water + Additive WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A IV B
EXTINGUISHING AGENT	Water + additive (98 % Water + 2 % SC-6)
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	100 L.
FULL WEIGHT	~ 154Kg
DIMENSIONS	Height 1350 +/-5 mm Width 580 +/-5 mm Depth 560 +/-5 mm
DISCHARGE TIME	89 sec.
VALVE TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	134 L.
SAFETY DEVICE	Set between 21 and 26 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyester powder painting, Red Ral 3000 colour

PACKAGING

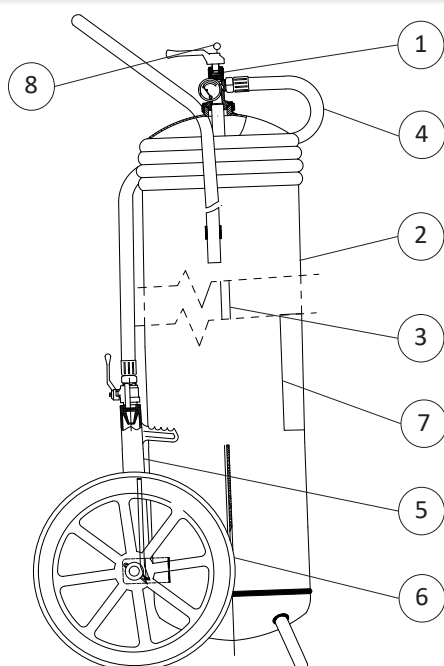
STANDARD : maximum 2 pieces for pallet
Pallet dimensions 100x120x150(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve 2''-F	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 400mm)	
7	Label	
8	Safety pin	
	Safety device	
	Safety pin seal	
	Additive (1 Lt. concentrate) (To mix with water, suitable for 1 recharge)	

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

150 L. Water + Additive WHEELED FIRE EXTINGUISHER



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

- **CYLINDER**
Stainless steel AISI 304, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water + additive .
- **PROPELLANT**
Fire extinguisher pressurized at moment of use with Nitrogen external cylinder, complete of protection for valve .
- **CAP**
Brass body, 2".
- **USE**
A B fire rating
(solid materials, flammable liquids).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

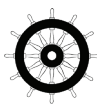
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150 L. water + additive wheeled fire extinguisher, pressurized at moment of use, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 1866-1**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



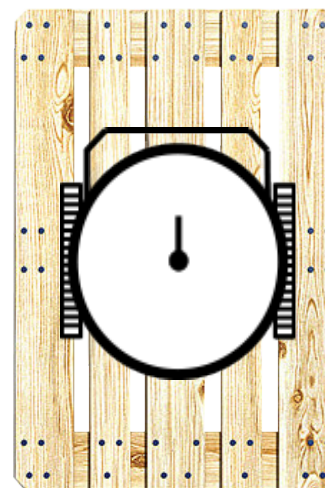
150 L. Water + Additive WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A IV B
EXTINGUISHING AGENT	Water + additive (98 % Water + 2 % SC-6)
PROPELLANT	Nitrogen 110 bar
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	150 L
FULL WEIGHT	~ 220Kg
DIMENSIONS	Height 1350 mm Width 750 mm Depth 640 mm
DISCHARGE TIME	139 sec.
CAP TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	170 L.
SAFETY DEVICE	Set between 21 and 26 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

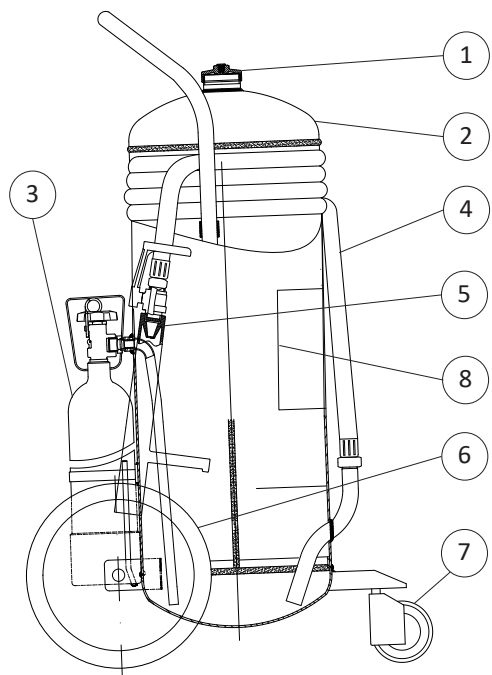
STANDARD : maximum 1 pieces for pallet
Pallet dimensions 100x120x150(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Brass cap, 2"	
2	Cylinder	
3	External cylinder Nitrogen, complete of protection for valve	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 400mm)	
7	Rotating wheel	
8	Label	
	Additive (3 Lt. concentrate) (To mix with water, suitable for 1 recharge)	



AUTOMATIC DEVICE "INDUSTRIAL SERIES" 3-6-12 Kg Powder

In new installations, the devices for to be operative need at least of this components: 2164; 2165; 2163-1

See example of installation at next page

Note: items supplied only on request



Manual actuator



Aluminum distribution tube



Fitting F 3/8" for distribution tube



Pyrotechnic cartridge for electric activation



Nozzle M 3/8"



Supplied with Pressure switch



Note for pressure switch:
The pressurized device is "normally open".
The pressure switch alone, not installed on the device, is "normally closed".

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

Powder Automatic Device, Industrial Series, available charge 3, 6, 12 Kg , temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %
- **PROPELLANT**
Nitrogen (N₂)
- **VALVE**
Automatic M. 30x1.5, set 93 °C.
(with bulb in standard equipment)
Supplied with pressure switch set at 11 bar.
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).
- **ACTIVATION**
 - Automatic when bulb temperature is reached. On request (see optional):
 - with manual actuator with handle;
 - with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

AVAILABLE VERSIONS

	POWDER QUANTITY	DIMENSIONS (without bracket) H x L max x Ø cylinder (mm)	M3/Kg	DISTRIBUTION TUBE LENGTH	NUMBER OF NOZZLE	DISCHARGE TIME	COVERAGE AREA
	Kg 3	440 +/-5 x 140 +/-3 x 130 +/-1	0,1373	recommended 4 m	Based on choice of dispensing points of installation	20 sec.	5 sq.m
	Kg 6	490 +/-5 x 160 +/-3 x 160 +/-3	0,1373	recommended 6 m		35 sec.	10 sq.m
	Kg 12	590 +/-5 x 190 +/-3 x 190 +/-3	0,1373	recommended 8 m		60 sec.	20 sq.m

APPROVED/CERTIFIED DEVICE:



FIRE RATING :



AUTOMATIC DEVICE "INDUSTRIAL SERIES"

3-6-12 Kg Powder

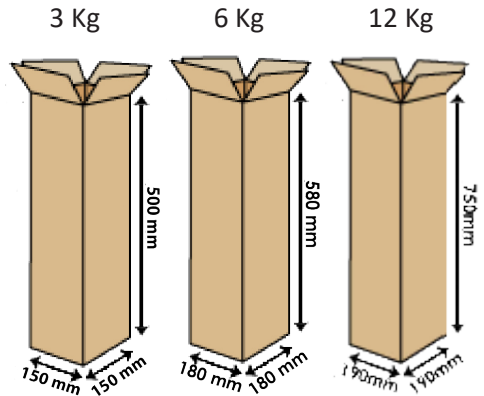
TECHNICAL SPECIFICATIONS

FIRE RATING	A B C
EXTINGUISHING AGENT	EPW 18462 (ABC powder - MAP 20 %)
PROPELLANT	Nitrogen (N ₂) 15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : single packaging

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

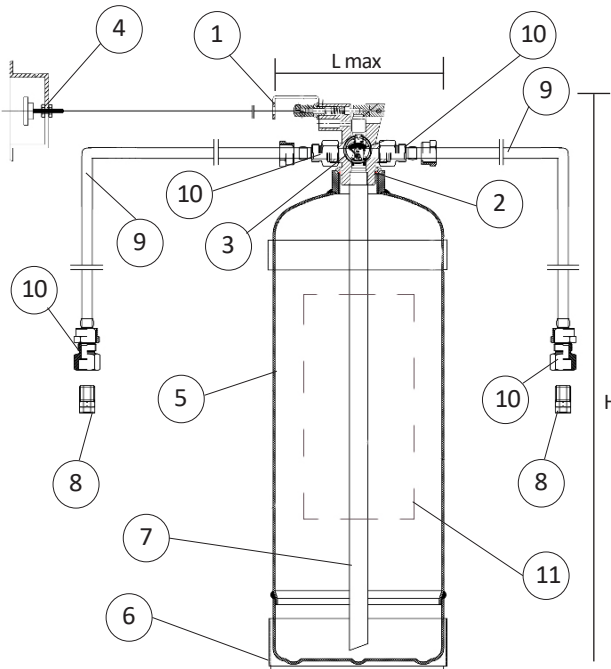


MAINTENANCE AND INSTALLATION

Install the system in vertical position using the supplied bracket. Place the distribution pipe and fix the nozzles. Remove the safety pin to make operating system.

Recommended maintenance : see specification in Use and Maintenance Manual equipped with the device, comply with the rules in use in utilization country.

EXAMPLE OF AUTOMATIC DEVICE INSTALLATION



AVAILABLE THERMOSENSIBLE BULBS

ACTIVATION TEMPERATURE	68°C	93°C
BULB COLOUR	Red	Green
CODE	9510	9511

SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4 - OPTIONAL	Manual actuator in control box(cable 5 m)	
5	Cylinder 3 Kg Cylinder 6 Kg Cylinder 12 Kg	
6	Iron bracket 3 Kg Iron bracket 6 Kg Iron bracket 12 Kg	
7	PVC dip tube 3 Kg PVC dip tube 6 Kg PVC dip tube 12 Kg	
8 - OPTIONAL	Dispensing nozzle AVP M 3/8"	
9 - OPTIONAL	Aluminum distribution tube Ø 10, PVC coated	
10 - OPTIONAL	Fitting F 3/8" for distribution tube	
OPTIONAL	Pyrotechnic cartridge	
11	Label	
	Pressure switch 1/8" for valve, set at 11 bar	



AUTOMATIC DEVICE "INDUSTRIAL SERIES" 3-6-12 Kg Powder



Included accessories

Fitting F 3/8" for distribution tube (4 pieces)
Pressure switch (1 piece equipped)
Nozzle M 3/8" (2 pieces)



Not Included accessories (only on request)

Aluminum distribution tube



Pyrotechnic cartridge for electric activation

Manual actuator



Note for pressure switch: The pressurized device is "normally open".
The pressure switch alone, not installed on the device, is "normally closed".

Note: image is for illustrative purpose only, the product purchased can have some differences

Powder Automatic Device, Industrial Series, available charge 3, 6, 12 Kg, temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %
- **PROPELLANT**
Nitrogen (N₂)
- **VALVE**
Automatic M. 30x1.5, set 93 °C.
(with bulb in standard equipment)
Supplied with pressure switch set at 11 bar.
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).
- **ACTIVATION**
 - Automatic when bulb temperature is reached. On request (see optional):
 - with manual actuator with handle;
 - with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

AVAILABLE VERSIONS

	POWDER QUANTITY	DIMENSIONS (without bracket) H x L max x Ø cylinder (mm)	M3/Kg	DISTRIBUTION TUBE LENGTH	DISCHARGE TIME	COVERAGE AREA
	Kg 3	440 +/-5 x 140 +/-3 x 130 +/-1	0,1373	recommended 4 m	20 sec.	5 sq.m
	Kg 6	490 +/-5 x 160 +/-3 x 160 +/-3	0,1373	recommended 6 m	35 sec.	10 sq.m
	Kg 12	590 +/-5 x 190 +/-3 x 190 +/-3	0,1373	recommended 8 m	60 sec.	20 sq.m

APPROVED/CERTIFIED DEVICE:



FIRE RATING :



AUTOMATIC DEVICE "INDUSTRIAL SERIES"

3-6-12 Kg Powder

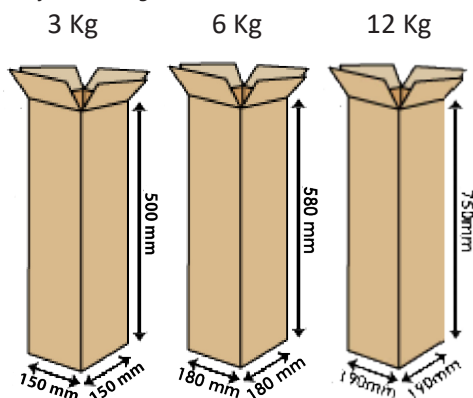
TECHNICAL SPECIFICATIONS

FIRE RATING	A B C
EXTINGUISHING AGENT	EPW 18462 (ABC powder - MAP 20 %)
PROPELLANT	Nitrogen (N ₂) 15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : single packaging

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

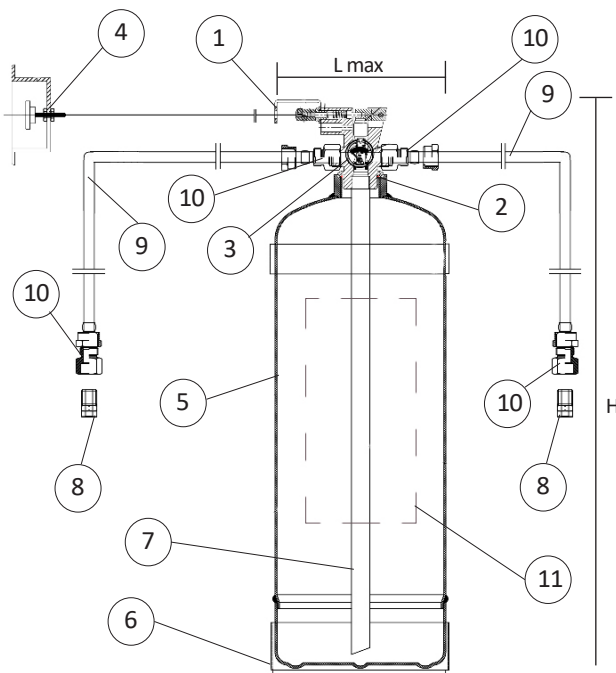


MAINTENANCE AND INSTALLATION

Install the system in vertical position using the supplied bracket. Place the distribution pipe and fix the nozzles. Remove the safety pin to make operating system.

Recommended maintenance : see specification in Use and Maintenance Manual equipped with the device, comply with the rules in use in utilization country.

EXAMPLE OF AUTOMATIC DEVICE INSTALLATION



AVAILABLE THERMOSENSIBLE BULBS

ACTIVATION TEMPERATURE	68°C	93°C
BULB COLOUR	Red	Green
CODE	9510	9511

SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4 - OPTIONAL	Manual actuator in control box(cable 10 m)	
5	Cylinder 3 Kg Cylinder 6 Kg Cylinder 12 Kg	
6	Iron bracket 3 Kg Iron bracket 6 Kg Iron bracket 12 Kg	
7	PVC dip tube 3 Kg PVC dip tube 6 Kg PVC dip tube 12 Kg	
8	Dispensing nozzle AVP M 3/8"	
9 - OPTIONAL	Aluminum distribution tube Ø 10, PVC coated	
10	Fitting F 3/8" for distribution tube	
OPTIONAL	Pyrotechnic cartridge	
11	Label	
	Pressure switch 1/8" for valve, set at 11 bar	



AUTOMATIC DEVICE "INDUSTRIAL SERIES" 3-6-12 Kg Powder



Included accessories

Fitting F 3/8" for distribution tube (4 pieces)
Pressure switch (1 piece equipped)
Nozzle M 3/8" (2 pieces)



Not Included accessories (only on request)

Aluminum distribution tube



Pyrotechnic cartridge for electric activation

Manual actuator



Note for pressure switch: The pressurized device is "normally open".
The pressure switch alone, not installed on the device, is "normally closed".

Note: image is for illustrative purpose only, the product purchased can have some differences

Powder Automatic Device, Industrial Series, available charge 3, 6, 12 Kg, temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %
- **PROPELLANT**
Nitrogen (N₂)
- **VALVE**
Automatic M. 30x1.5, set 93 °C.
(with bulb in standard equipment)
Supplied with pressure switch set at 11 bar.
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).
- **ACTIVATION**
 - Automatic when bulb temperature is reached. On request (see optional):
 - with manual actuator with handle;
 - with pyrotechnic cartridge for electric activation.
- **BRACKET**
Wall-mounted in standard equipment.

AVAILABLE VERSIONS

	POWDER QUANTITY	DIMENSIONS (without bracket) H x L max x Ø cylinder (mm)	M3/Kg	DISTRIBUTION TUBE LENGTH	DISCHARGE TIME	COVERAGE AREA
	Kg 3	440 +/-5 x 140 +/-3 x 130 +/-1	0,1373	recommended 4 m	20 sec.	5 sq.m
	Kg 6	490 +/-5 x 160 +/-3 x 160 +/-3	0,1373	recommended 6 m	35 sec.	10 sq.m
	Kg 12	590 +/-5 x 190 +/-3 x 190 +/-3	0,1373	recommended 8 m	60 sec.	20 sq.m

APPROVED/CERTIFIED DEVICE:



FIRE RATING :



AUTOMATIC DEVICE "INDUSTRIAL SERIES"

3-6-12 Kg Powder

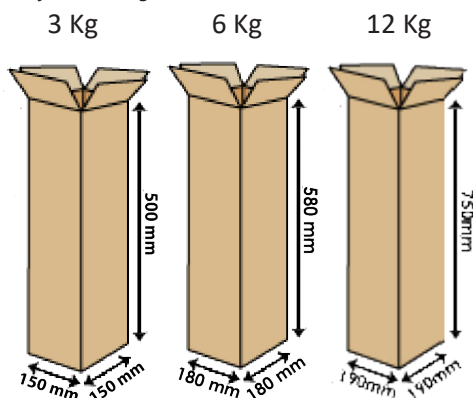
TECHNICAL SPECIFICATIONS

FIRE RATING	A B C
EXTINGUISHING AGENT	EPW 18462 (ABC powder - MAP 20 %)
PROPELLANT	Nitrogen (N ₂) 15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
CYLINDER PRESSURE TEST	PT 27 bar
VALVE TIGHTENING TORQUE	Between 40 and 50 Nm
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : single packaging

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

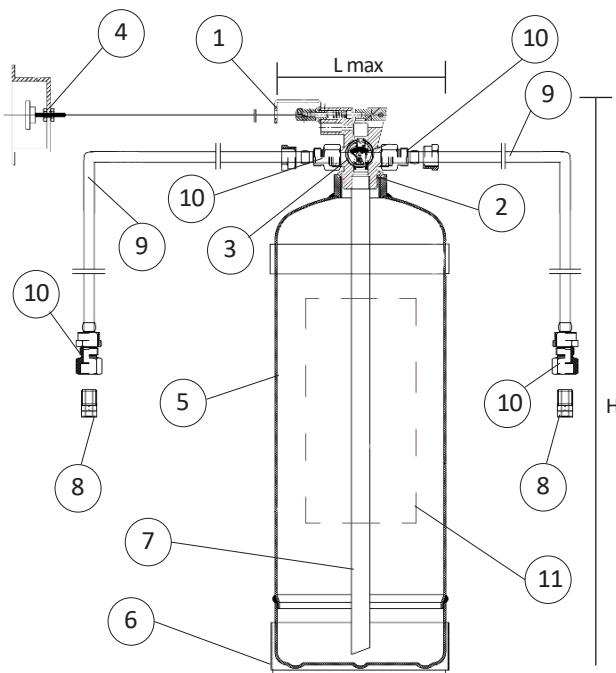


MAINTENANCE AND INSTALLATION

Install the system in vertical position using the supplied bracket. Place the distribution pipe and fix the nozzles. Remove the safety pin to make operating system.

Recommended maintenance : see specification in Use and Maintenance Manual equipped with the device, comply with the rules in use in utilization country.

EXAMPLE OF AUTOMATIC DEVICE INSTALLATION



AVAILABLE THERMOSENSIBLE BULBS

ACTIVATION TEMPERATURE	68°C	93°C
BULB COLOUR	Red	Green
CODE	9510	9511

SPARE PARTS

N.	DESCRIPTION	
1	Valve M. 30x1.5 with thermosensible bulb for activation at 93°C	
2	Valve o-ring	
3	Pressure gauge	
4 - OPTIONAL	Manual actuator in control box(cable 10 m)	
5	Cylinder 3 Kg Cylinder 6 Kg Cylinder 12 Kg	
6	Iron bracket 3 Kg Iron bracket 6 Kg Iron bracket 12 Kg	
7	PVC dip tube 3 Kg PVC dip tube 6 Kg PVC dip tube 12 Kg	
8	Dispensing nozzle AVP M 3/8"	
9 - OPTIONAL	Aluminum distribution tube Ø 10, PVC coated	
10	Fitting F 3/8" for distribution tube	
OPTIONAL	Pyrotechnic cartridge	
11	Label	
	Pressure switch 1/8" for valve, set at 11 bar	



1 Kg Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Iron wire in standard equipment.

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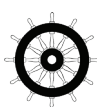
Note: image is for illustrative purpose only, the product purchased can has some differences

1 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for ressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



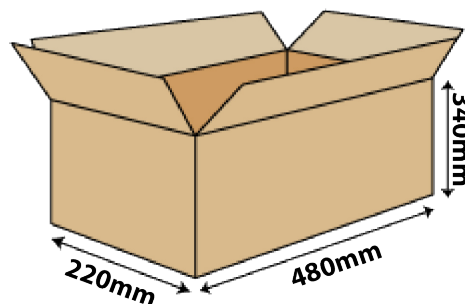
1 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	8 A 34 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	1 Kg
FULL WEIGHT	~ 2,1 Kg
DIMENSIONS	Height(base-valve) 338 mm Diameter 85 mm
DISCHARGE TIME	6,5 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	1,25 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

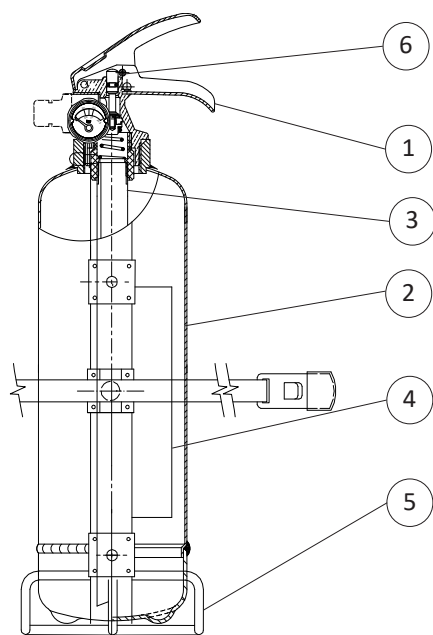
STANDARD : minimum 10 pieces for box
Maximum 400 pieces for pallet
(40 boxes with 10 pieces each box)
Pallet dimensions 100x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Iron wire bracket	
6	Safety pin	
	Safety valve	
	Safety pin seal	

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 2 Kg ABC Powder



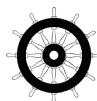
Note: image is for illustrative purpose only, the product purchased can has some difference

2 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment **PED 2014/68/EU**.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1.000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



13



89



✓

Portable Fire Extinguisher, 2 Kg ABC Powder

TECHNICAL SPECIFICATIONS

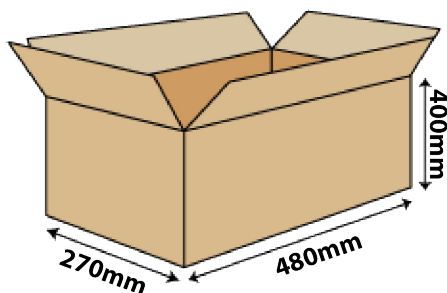
FIRE RATING	13 A 89 B C
EXTINGUISHING AGENT	ABC Powder - MAP 20 % EPW 18462 (ABC Favorit Tertia - Rühl)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	2 Kg
FULL WEIGHT	~ 3,7 Kg
DIMENSIONS	Height (base - valve) 380 +/- 5 mm Diameter (cylinder) 110 +/- 2 mm
DISCHARGE TIME	~ 13,3 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	2,5 L.
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

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

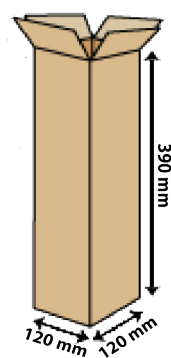
STANDARD

Note: minimum 8 pieces
Maximum nr. 256 pieces for pallet
(32 boxes with 8 pieces for each one)
Pallet dimensions 100x120 cm



ON REQUEST: SINGLE PACKAGING

- maximum 192 pieces on pallet 100x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 2 Kg ABC Powder

COMPONENTS AND SPARE PARTS LIST

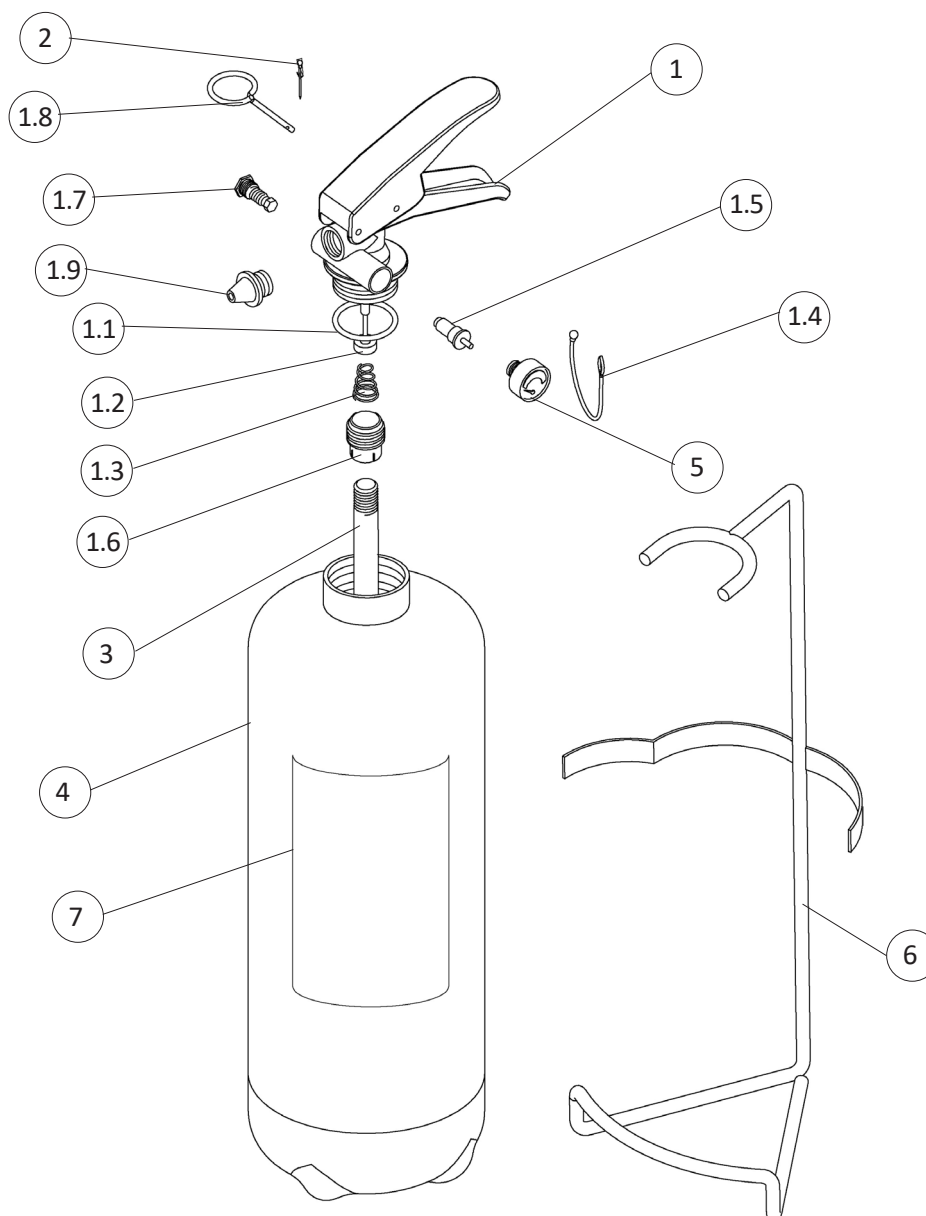


Table 1

NUM.	DESCRIPTION	
1	Valve M. 30x1.5	
1.1	O-ring valve	
1.2	Valve stem	
1.3	Internal spring of the valve	
1.4	Tamper seal (red)	
1.5	Test valve for pressure gauge	
1.6	Dip tube holder	
1.7	Safety device	
1.8	Safety pin	

NUM.	DESCRIPTION	
1.9	Dispensing nozzle	
2	Safety pin seal (green)	
3	PVC dip tube	
4	Cylinder	
5	Pressure gauge	
6	Bracket	
7	Label	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.9
 "n.a." mean that the component is not available as single spare part



3 Kg Powder FIRE EXTINGUISHER



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

- **CYLINDER**
Alloy steel, deep drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, lightweight aluminum alloy AA6061 body, levers with red painting Ral 3000.
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).

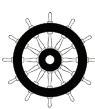
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3 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



13



113



✓

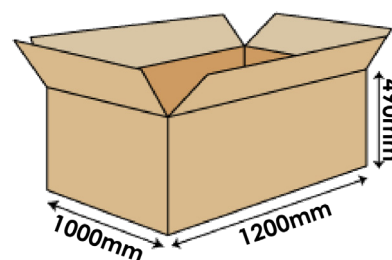
3 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

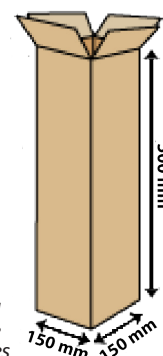
FIRE RATING	13 A 113 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	3 Kg
FULL WEIGHT	~ 5,3 Kg
DIMENSIONS	Height(base-valve) 470 mm Diameter 130 mm
DISCHARGE TIME	15 sec.
VALVE TIGHTENING TORQUE	Minimum 35 Nm, Maximum 55 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	4,3 L.
SAFETY VALVE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : maximum 126 pieces for pallet
(63 pieces for box, max 2 boxes for pallet)
Pallet dimensions 100x120x115(h) cm



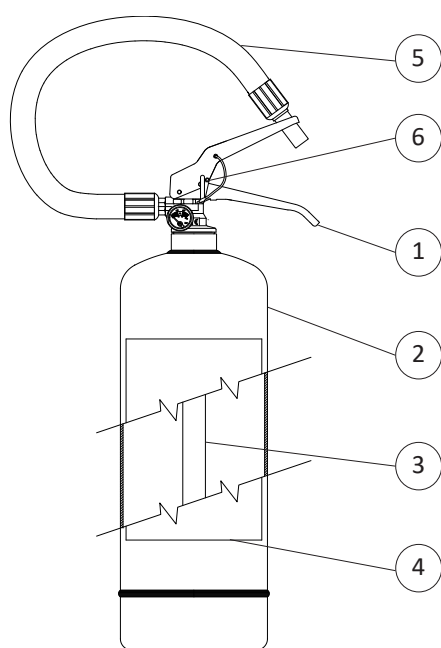
SINGLE PACKAGING
ON REQUEST



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose	
6	Safety pin	
	Safety pin seal	
OPTIONAL	Iron marine bracket red painting	



4 Kg Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, lightweight aluminum alloy AA6061 body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

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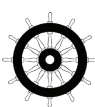
Note: image is for illustrative purpose only, the product purchased can has some differences

4 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



21



183



✓

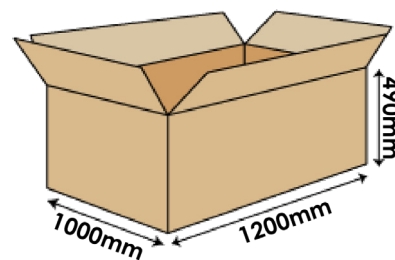
4 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

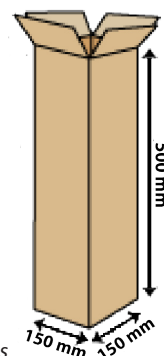
FIRE RATING	21 A 183 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	4 Kg
FULL WEIGHT	~ 6,3 Kg
DIMENSIONS	Height(base-valve) 470 mm Diameter 130 mm
DISCHARGE TIME	18 sec.
VALVE TIGHTENING TORQUE	Minimum 35 Nm, Maximum 55 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	4,3 L.
SAFETY VALVE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : maximum 126 pieces for pallet
(63 pieces for box, max 2 boxes for pallet)
Pallet dimensions 100x120x115(h) cm



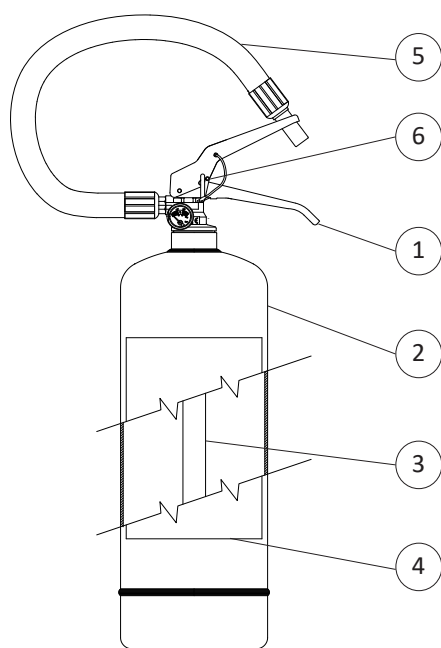
SINGLE PACKAGING
ON REQUEST



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose	
6	Safety pin	
	Safety valve	
	Safety pin seal	
OPTIONAL	Iron marine bracket red painting	



6 Kg D Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, 3 pieces drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
D powder .
- **PROPELLANT**
Dehumidified air or N₂ .
- **VALVE**
CPF M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
D fire rating
(recommended in environments with risks arising from the presence of flammable metal).

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

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



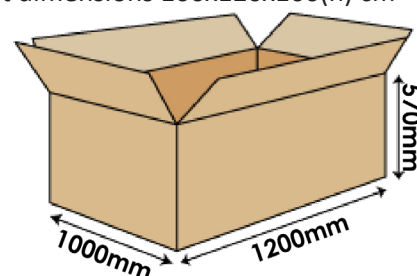
6 Kg D Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	D
EXTINGUISHING AGENT	EPD 0356 (PRO-M) - D powder
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 10 Kg
DIMENSIONS	Height(base-valve) 505 mm Diameter 160 mm
DISCHARGE TIME	18,5 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,3 L.
SAFETY VALVE	Set between 20 and 24 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

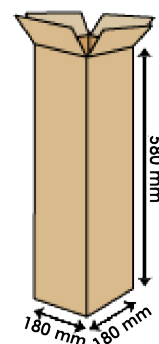
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

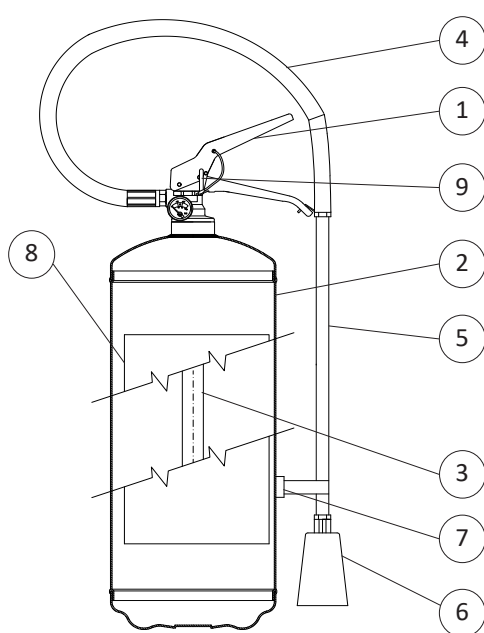
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Extension hose	
6	Horn	
7	Magnet stop hose	
8	Label	
9	Safety pin	
	Safety valve	
	Safety pin seal	



6 Kg Powder FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Alloy steel, 3 pieces drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Fire extinguisher pressurized at moment of use with gr. 150 CO₂ cartridge.
- **VALVE**
M. 74x2, lightweight aluminum alloy, activation with percussion method.
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).
- **BRACKET**
Wall-mounted bracket for cylinder with clip, red painting, in standard equipment.

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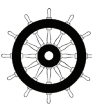
Note: image is for illustrative purpose only, the product purchased can has some differences

6 Kg powder fire extinguisher, pressurized at moment of use, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34



233



✓

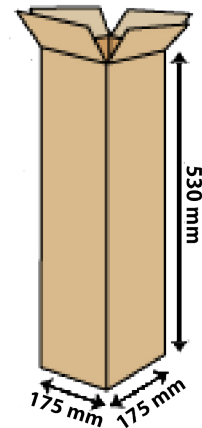
6 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	EPW 18462 ABC powder - MAP 20 %
PROPELLANT	Internal cartridge with gr. 150 CO ₂
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 10,5 Kg
DIMENSIONS	Height 515(valve) / 530(hose) mm Diameter(cylinder) 152 mm
DISCHARGE TIME	15,5 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	6,7 L.
SAFETY VALVE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

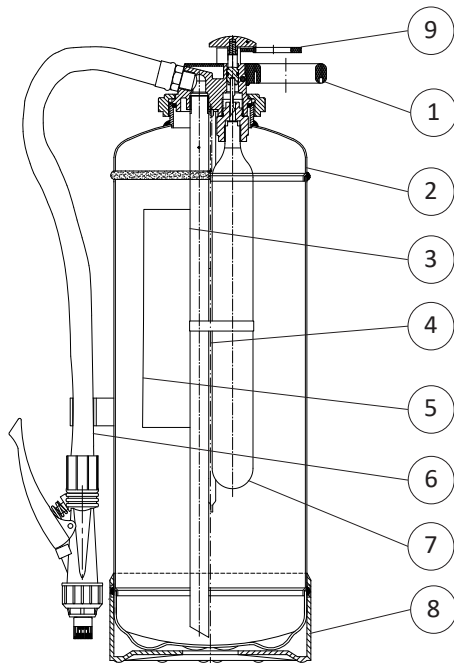
STANDARD : maximum 60 pieces on
pallet 100x120 cm
in single packaging



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 74x2	
2	Cylinder	
3	PVC dip tube	
4	Pressurization dip tube	
5	Label	
6	Hose	
7	gr. 150 CO ₂ cartridge	
8	PELD base	
9	Safety pin	
	Safety pin seal	



6 Kg Powder FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Stainless steel AISI 304, 3 pieces drawing, with clip, polished.
- **EXTINGUISHING AGENT**
ABC powder - MAP 20 %
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 58x2, lightweight aluminum alloy AA6061 body, with external check valve, black painting.
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).
- **BRACKET**
Wall-mounted for valve, in standard equipment.

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

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34



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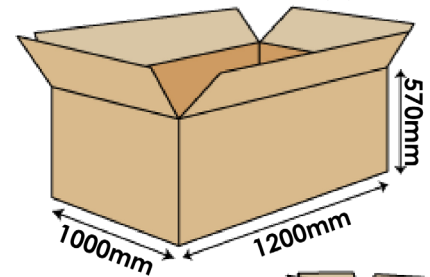
6 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	EPW 18462 ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 8,8 Kg
DIMENSIONS	Height 560 mm Diameter 160 mm
DISCHARGE TIME	18,5 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 22 and 27 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL/INTERNAL TREATMENT	Polishing

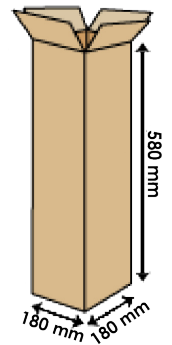
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

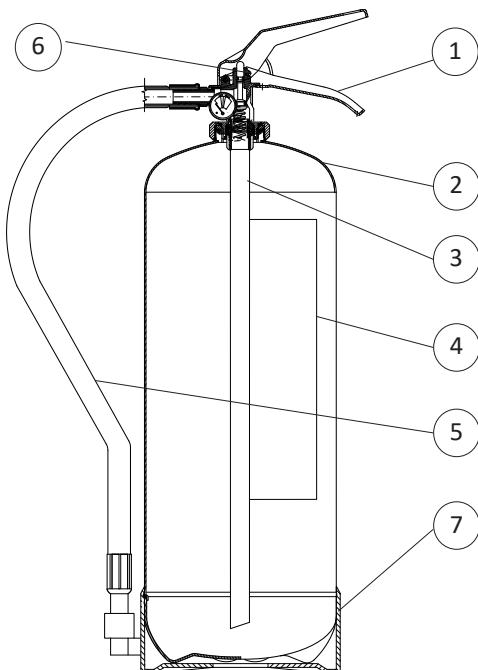
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 58x2	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose	
6	Safety pin	
7	PELD base	
	Safety valve	
	Safety pin seal	
	Check valve	
	ABC powder - MAP 20 % (6 Kg recharge)	
OPTIONAL	Wall-mounted bracket for fire extinguisher with clip, red painting	



6 Kg Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, epoxypolyester powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

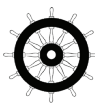
Note: image is for illustrative purpose only, the product purchased can has some differences

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



55



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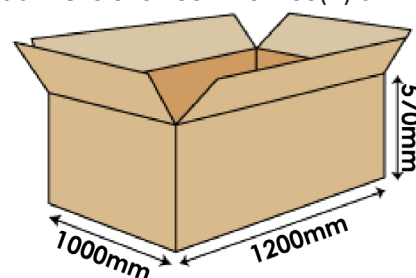
6 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	55 A 233 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height(base-valve) 540 mm Diameter 160 mm
DISCHARGE TIME	18,5 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

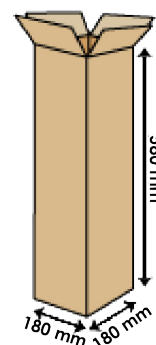
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

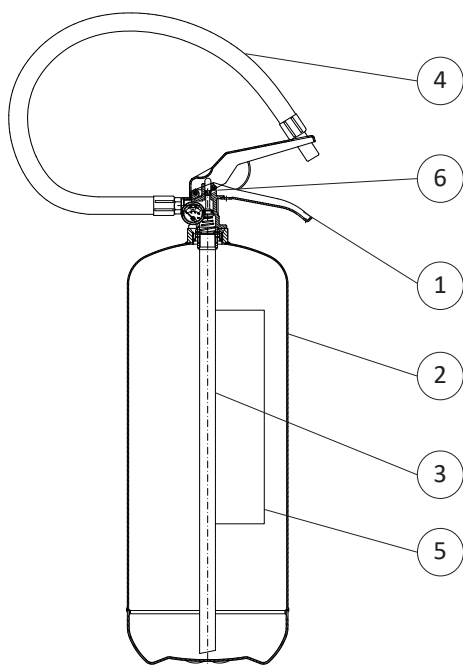
- maximum 64 pieces
on pallet 100x120 cm
- maximum 48 pieces
on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Label	
6	Safety pin	
	Safety valve	
	Safety pin seal	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	



6 Kg Powder FIRE EXTINGUISHER



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

- **CYLINDER**
Alloy steel, deep drawing, epoxypolyester powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, lightweight aluminum alloy AA6061 body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

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6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

ESTINTORE APPROVATO/CERTIFICATO:



**FIRE
RATING :**



43



233



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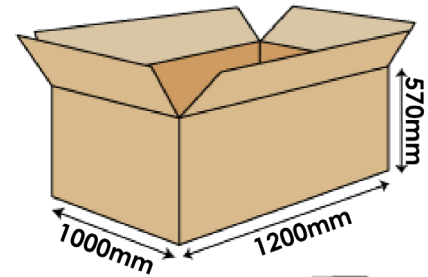
6 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	43 A 233 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,3 Kg
DIMENSIONS	Height(base-valve) 540 mm Diameter 160 mm
DISCHARGE TIME	18,5 sec.
VALVE TIGHTENING TORQUE	Minimum 35 Nm, Maximum 55 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

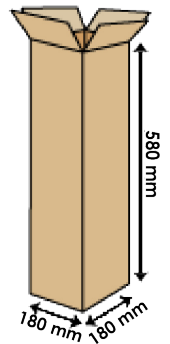
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

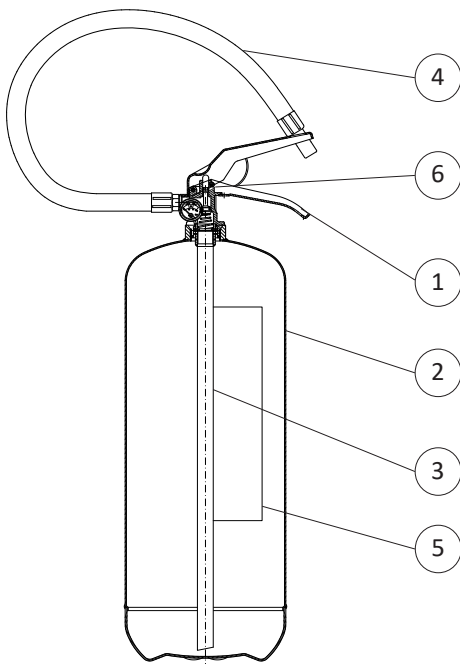
- maximum 64 pieces
on pallet 100x120 cm
- maximum 48 pieces
on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Label	
6	Safety pin	
	Safety pin seal	

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6 Kg Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

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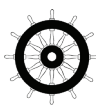
Note: image is for illustrative purpose only, the product purchased can has some differences

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



43



233



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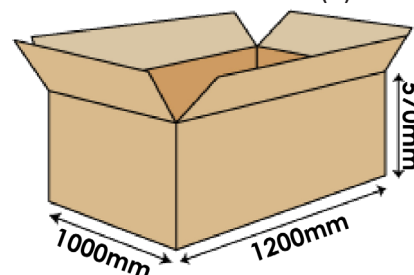
6 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	43 A 233 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height(base-valve) 540 mm Diameter 160 mm
DISCHARGE TIME	18,5 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

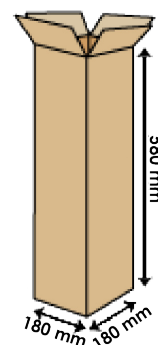
STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING

ON REQUEST:

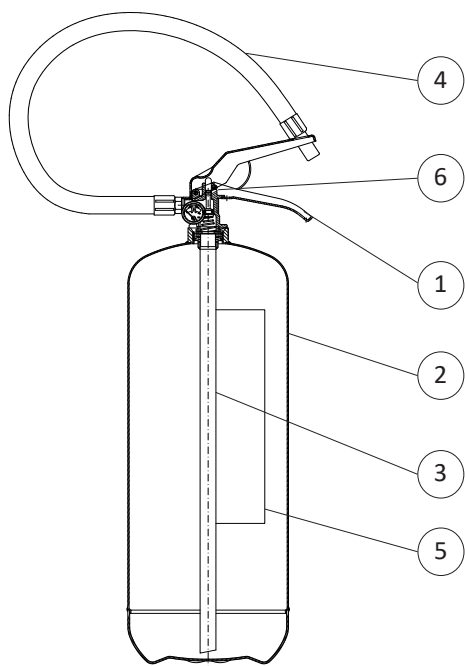
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Label	
6	Safety pin	
	Safety valve	
	Safety pin seal	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	

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6 Kg Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 40 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

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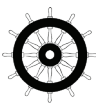
Note: image is for illustrative purpose only, the product purchased can has some differences

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34



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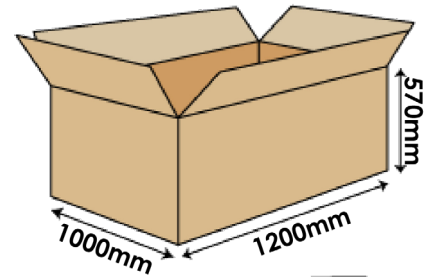
6 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	EPB 0351 (ABC Favorit 111) ABC powder - MAP 40 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height(base-valve) 540 mm Diameter 160 mm
DISCHARGE TIME	18 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

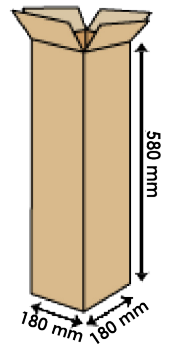
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

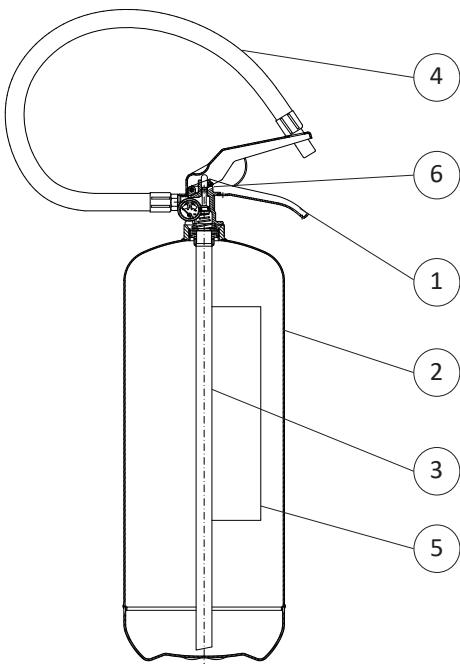
- maximum 64 pieces
on pallet 100x120 cm
- maximum 48 pieces
on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Label	
6	Safety pin	
	Safety valve	
	Safety pin seal	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	

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6 Kg Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, 3 pieces drawing, powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂ .
- **VALVE**
M. 30x1.5, lightweight aluminum alloy AA6061 body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

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

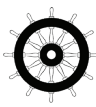
6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

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APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



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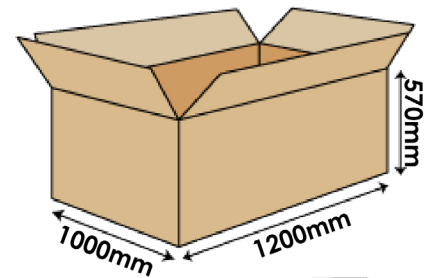
6 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia - Rühl) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height(base-valve) 505 +/- 5 mm Diameter 160 +/- 2 mm
DISCHARGE TIME	20,3 sec.
VALVE TIGHTENING TORQUE	Minimum 35 Nm, Maximum 55 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,3 L.
SAFETY DEVICE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

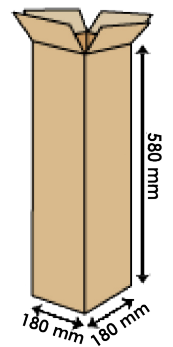
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

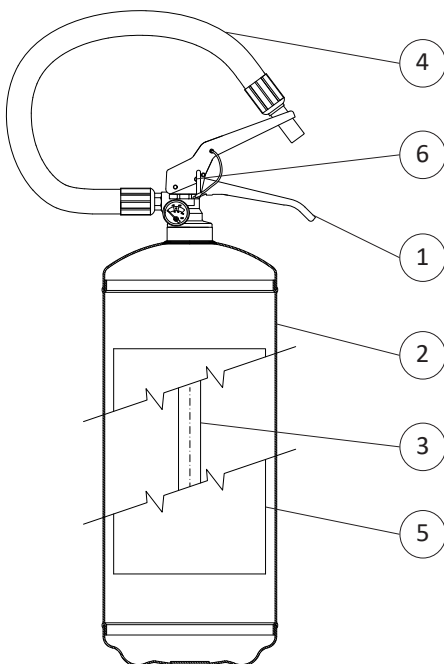
- maximum 64 pieces
on pallet 100x120 cm
- maximum 48 pieces
on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Label	
6	Safety pin	
	Safety pin seal	

Use and Maintenance Technical Manual

BIOGENESIS



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Portable Fire Extinguisher, 6 Kg ABC Powder



- **CYLINDER**
In high-strength alloy steel, deep drawing, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

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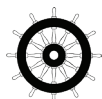
Note: image is for illustrative purpose only, the product purchased can has some difference

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1.000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34



233



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Portable Fire Extinguisher, 6 Kg ABC Powder

TECHNICAL SPECIFICATIONS

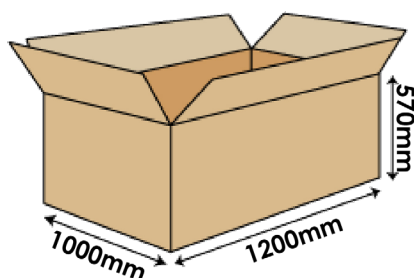
FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	ABC Powder - MAP 20 % (Pro-Twenty - ProPhos Chemicals S.r.l.)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height (base - valve) 540 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 22 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

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

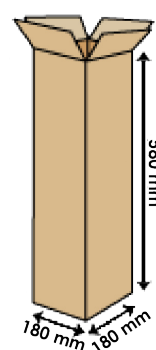
STANDARD

Maximum nr. 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces. single packaging)
Pallet dimensions 100x120x160(h) cm



ON REQUEST: SINGLE PACKAGING

- maximum 64 pieces on pallet 100x120
- maximum 48 pieces on pallet 80x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 6 Kg ABC Powder

COMPONENTS AND SPARE PARTS LIST

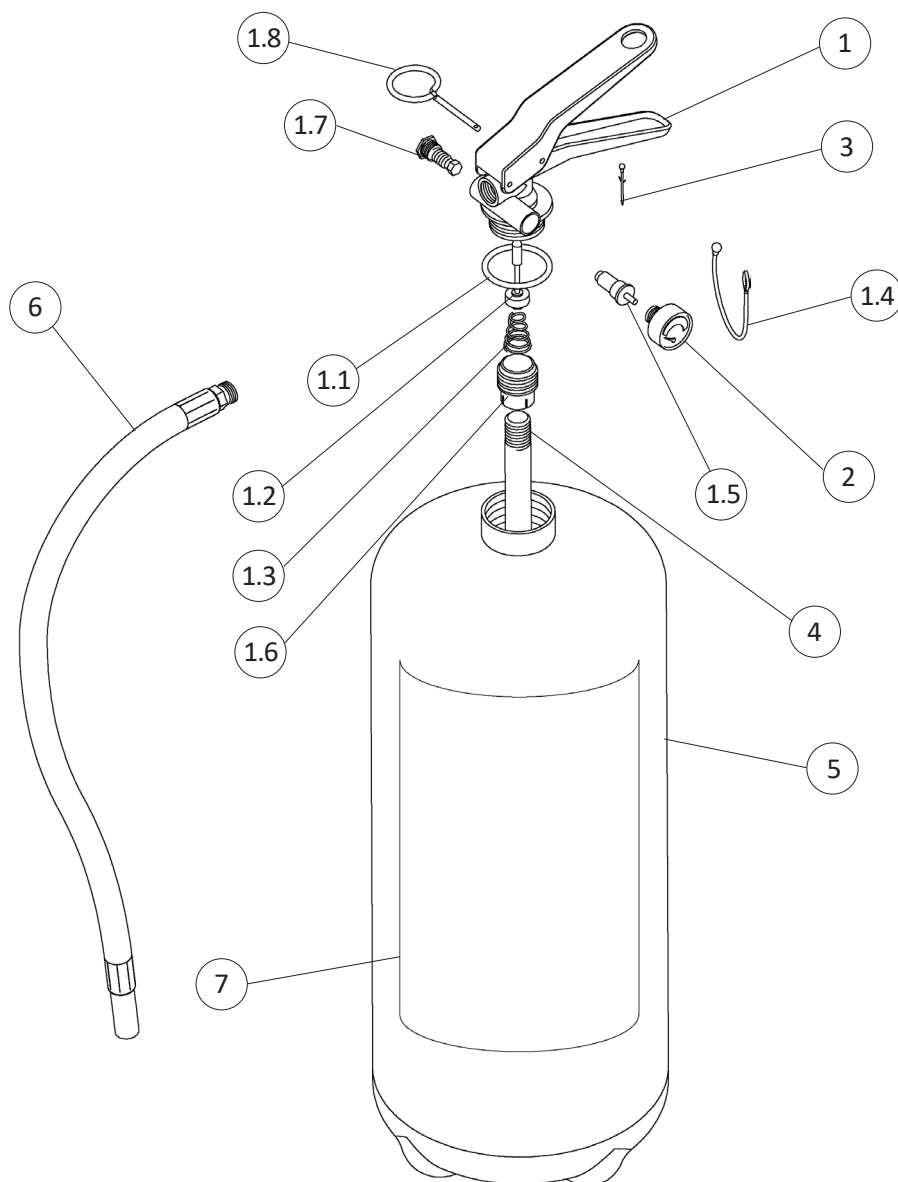


Table 1

NUM.	DESCRIPTION	
1	Valve M. 30x1.5	
1.1	O-ring valve	
1.2	Valve stem	
1.3	Internal spring of the valve	
1.4	Rubber link (red)	
1.5	Test valve for pressure gauge	
1.6	Dip tube holder	
1.7	Safety device	
1.8	Safety pin	
2	Pressure gauge	

NUM.	DESCRIPTION	
3	Safety pin seal (green)	
4	PVC dip tube	
5	Cylinder	
6	Hose	
7	Label	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.8

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 Kg ABC Powder



European
Green
Deal

100% *SUSTAINABLE POWDER*

To reach zero climate impact in Europe
within 2050



This powder has achieved certification
by **Milieukeur** as eco-friendly product
in accordance of European Green Deal

- **CYLINDER**
In high-strength alloy steel,
deep drawing, external powder
painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Regenerated ABC Powder
MAP 30 %.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with
red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids,
flammable gas).

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

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



MPA
Dresden



EN 3-10
Inspection Certificate
N° 55840/21/NMI/nmj



**FIRE
RATING :**



34



233



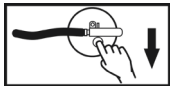
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Portable Fire Extinguisher, 6 Kg ABC Powder

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	Regenerated ABC Powder - MAP 30 % (NTL30 - New Tech Lab)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height (base - valve) 540 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 21,1 seconds

MODALITY OF USE



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaning of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
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Portable Fire Extinguisher, 6 Kg ABC Powder



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100% *SUSTAINABLE POWDER*

To reach zero climate impact in Europe
within 2050



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by **Milieukeur** as eco-friendly product
in accordance of European Green Deal

- **CYLINDER**
In high-strength alloy steel,
3 pieces drawing, external powder
painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Regenerated ABC Powder
MAP 30 %.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
CPF M. 30x1.5, brass body,
levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids,
flammable gas).

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

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia.
Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



EN 3-10
Inspection Certificate
N° 55840/21/NMI/nmj



**FIRE
RATING :**



34



233



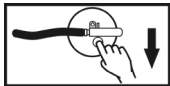
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Portable Fire Extinguisher, 6 Kg ABC Powder

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	Regenerated ABC Powder - MAP 30 % (NTL30 - New Tech Lab)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,55 Kg
DIMENSIONS	Height (base - valve) 510 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 21,1 seconds

MODALITY OF USE



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaning of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.

Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 Kg ABC Powder



- **CYLINDER**
In high-strength alloy steel,
3 pieces drawing, external powder
painting Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, lightweight aluminum
alloy AA6061 body, levers with
red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids,
flammable gas).

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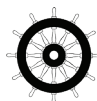
Note: image is for illustrative purpose only, the product purchased can has some difference

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment **PED 2014/68/EU**.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1.000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34



233



✓

Portable Fire Extinguisher, 6 Kg ABC Powder

TECHNICAL SPECIFICATIONS

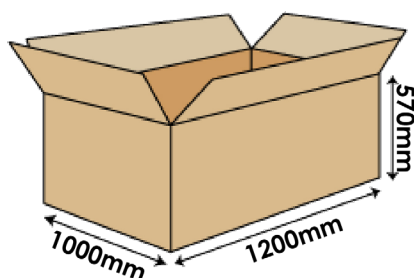
FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	ABC Powder - MAP 20 % EPW 18462 (ABC Favorit Tertia - Rühl)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height (base - valve) 505 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 22 seconds
VALVE TIGHTENING TORQUE	Minimum 35 Nm, Maximum 55 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,3 L.
SAFETY DEVICE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

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

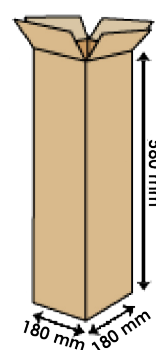
STANDARD

Maximum nr. 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces. single packaging)
Pallet dimensions 100x120x160(h) cm



ON REQUEST: SINGLE PACKAGING

- maximum 64 pieces on pallet 100x120
- maximum 48 pieces on pallet 80x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 6 Kg ABC Powder

COMPONENTS AND SPARE PARTS LIST

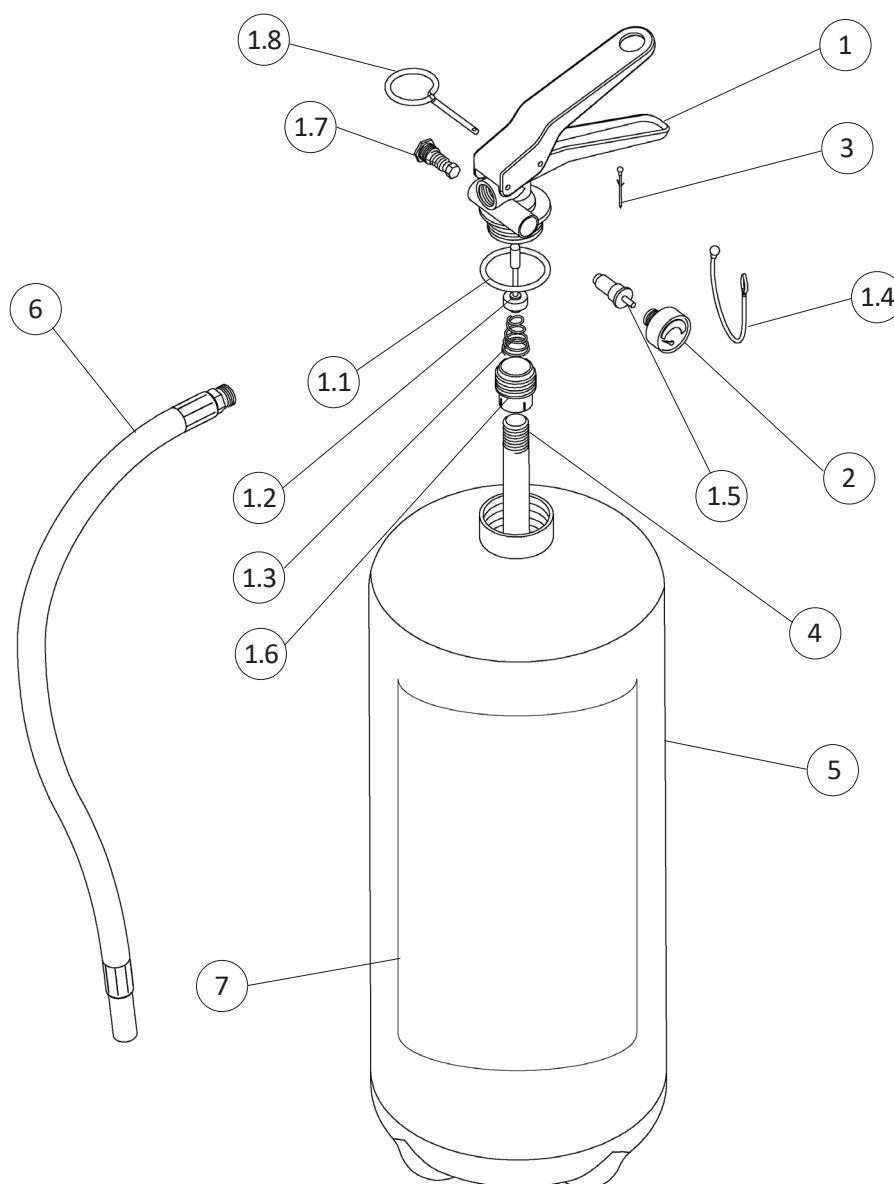


Table 1

NUM.	DESCRIPTION	
1	Valve M. 30x1.5	
1.1	O-ring valve	
1.2	Valve stem	
1.3	Internal spring of the valve	
1.4	Rubber link (red)	
1.5	Test valve for pressure gauge	
1.6	Dip tube holder	
1.7	Safety device	
1.8	Safety pin	
2	Pressure gauge	

NUM.	DESCRIPTION	
3	Safety pin seal (green)	
4	PVC dip tube	
5	Cylinder	
6	Hose	
7	Label	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.8
"n.a." mean that the component is not available as single spare part

Use and Maintenance User Manual

BIOGENESIS



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Portable Fire Extinguisher, 6 Kg ABC Powder



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100% SUSTAINABLE POWDER

To reach zero climate impact in Europe
within 2050



This powder has achieved certification
by Milieukeur as eco-friendly product
in accordance of European Green Deal

- **CYLINDER**
In high-strength alloy steel,
3 pieces drawing, external powder
painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Regenerated ABC Powder
MAP 30 %.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, lightweight aluminum
alloy AA6061 body, levers with
red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids,
flammable gas).

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

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia.
Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**

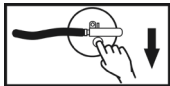


Portable Fire Extinguisher, 6 Kg ABC Powder

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	Regenerated ABC Powder - MAP 30 % (NTL30 - New Tech Lab)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height (base - valve) 505 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 21,1 seconds

MODALITY OF USE



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaining of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

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Use and Maintenance Technical Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Portable Fire Extinguisher, 6 Kg ABC Powder



- **CYLINDER**
In high-strength alloy steel,
3 pieces drawing, external powder
painting Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with
red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids,
flammable gas).

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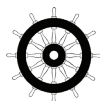
Note: image is for illustrative purpose only, the product purchased can has some difference

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7, (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment **PED 2014/68/EU**.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1.000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34



233



✓

Portable Fire Extinguisher, 6 Kg ABC Powder

TECHNICAL SPECIFICATIONS

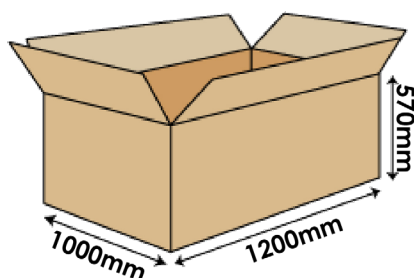
FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	ABC Powder - MAP 20 % (Pro-Twenty - ProPhos Chemicals S.r.l.)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,5 Kg
DIMENSIONS	Height (base - valve) 510 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 22 seconds
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,3 L.
SAFETY DEVICE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

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

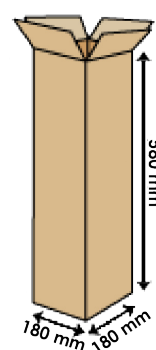
STANDARD

Maximum nr. 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces. single packaging)
Pallet dimensions 100x120x160(h) cm



ON REQUEST: SINGLE PACKAGING

- maximum 64 pieces on pallet 100x120
- maximum 48 pieces on pallet 80x120



TRANSPORT DISPOSAL

Land transport : Exemption for the purposes of ADR disposal 594

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

Portable Fire Extinguisher, 6 Kg ABC Powder

COMPONENTS AND SPARE PARTS LIST

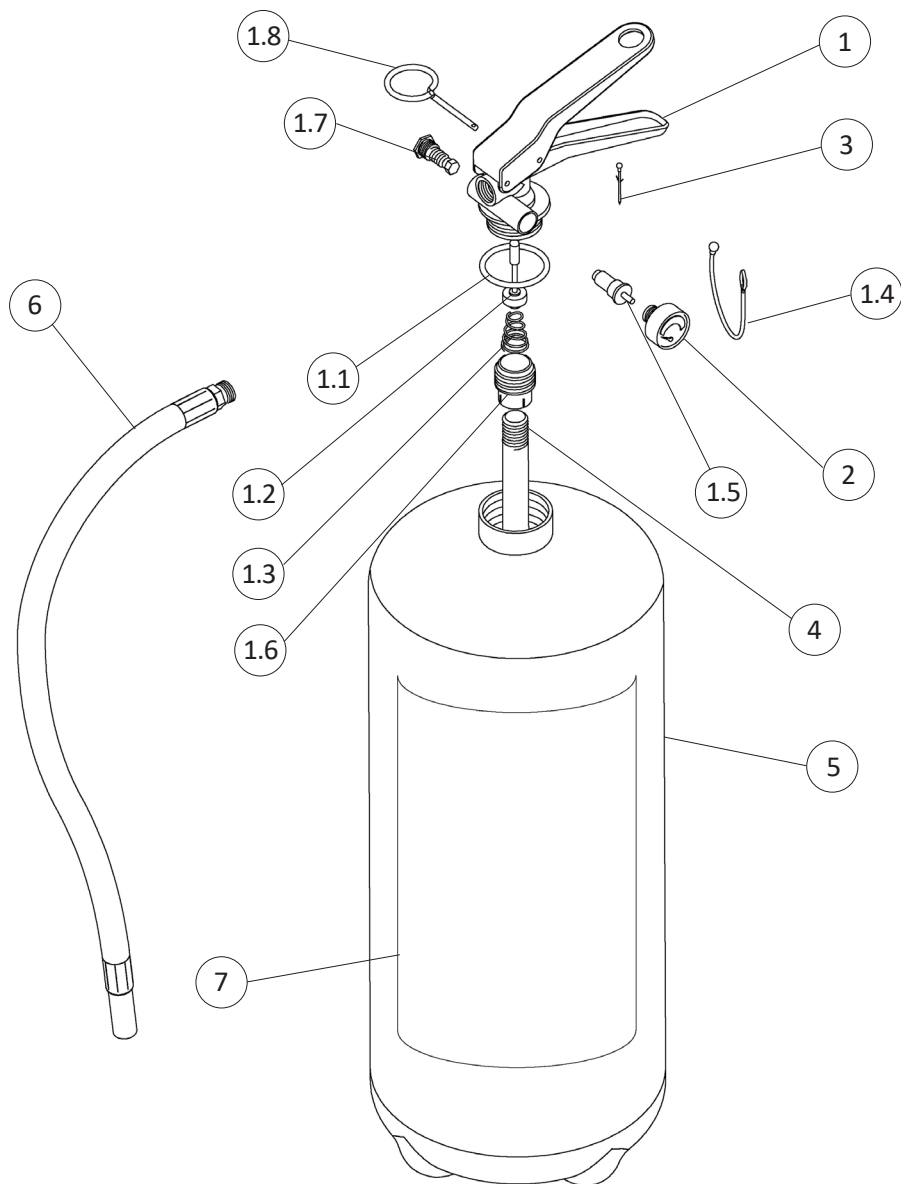


Table 1

NUM.	DESCRIPTION	
1	Valve M. 30x1.5	
1.1	O-ring valve	
1.2	Valve stem	
1.3	Internal spring of the valve	
1.4	Rubber link (red)	
1.5	Test valve for pressure gauge	
1.6	Dip tube holder	
1.7	Safety device	
1.8	Safety pin	
2	Pressure gauge	

NUM.	DESCRIPTION	
3	Safety pin seal (green)	
4	PVC dip tube	
5	Cylinder	
6	Hose	
7	Label	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	

The spare part at number 1 includes already all others components indicated from 1.1 to 1.8

Use and Maintenance User Manual

BIOGENESIS



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Portable Fire Extinguisher, 6 Kg ABC Powder



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within 2050



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in accordance of European Green Deal

- **CYLINDER**
In high-strength alloy steel,
3 pieces drawing, external powder
painting Red Ral 3000.
- **EXTINGUISHING AGENT**
Regenerated ABC Powder
MAP 30 %.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂).
- **VALVE**
M. 30x1.5, brass body, levers with
red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids,
flammable gas).

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

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU. Manufactured according at productions checks as agreed with **EN 3-10**. Quality Product certification guaranteed by Bureau Veritas Italia.
Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



MPA
Dresden



EN 3-10
Inspection Certificate
N° 55840/21/NMI/nmj



**FIRE
RATING :**



34



233



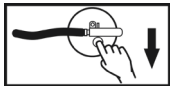
✓

Portable Fire Extinguisher, 6 Kg ABC Powder

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	Regenerated ABC Powder - MAP 30 % (NTL30 - New Tech Lab)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,5 Kg
DIMENSIONS	Height (base - valve) 510 +/- 5 mm Diameter (cylinder) 160 +/- 2 mm
DISCHARGE TIME	~ 21,1 seconds

MODALITY OF USE



1) REMOVE SAFETY PIN



2) HOLD THE HOSE



3) SQUEEZE GRIP LEVER



4) AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force.

The fire extinguisher have to be installed in a safe and stable support, with a gripping at a maximum recommended height of 110 cm.

The fire extinguisher must be free of obstructions and marked by an appropriate identifying label.

It is recommended to install it in a dry place, protected from the atmospheric agents.

It is recommended the installation of water-based fire extinguishers for close spaces.

The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on the market, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The maintaining of the product efficiency have to be carried out from the responsible person.

It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions.

It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available.

Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance.

Any tampering or intromission by unauthorized personnel voids the product warranty.



6 Kg Powder FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Alloy steel, deep drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 58x2, lightweight aluminum alloy AA6061 body, with external check valve, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

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

6 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



34



233



✓

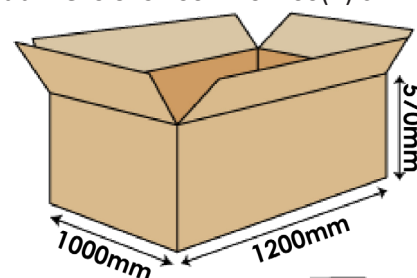
6 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	34 A 233 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height 550 mm Diameter 160 mm
DISCHARGE TIME	16,5 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

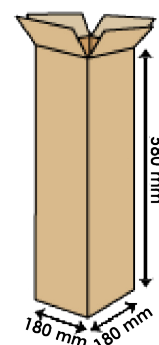
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

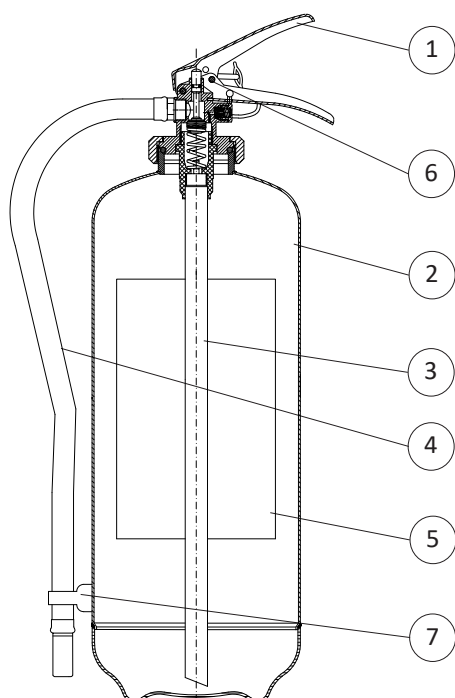
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 58x2	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Label	
6	Safety pin	
7	Magnet stop hose	
	Safety valve	
	Safety pin seal	
	Check valve	
OPTIONAL	Wall-mounted bracket for cylinder with clip, red painting	



6Kg Powder AUTOMATIC FIRE EXTINGUISHER



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

- **CYLINDER**
Alloy steel, 2 pieces, with protection for valve, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC powder.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
Sprinkler M 30X1.5, set to 68 °C.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Bracket for ceiling mounting.

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6Kg powder automatic fire extinguisher, temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER



**FIRE
RATING :**



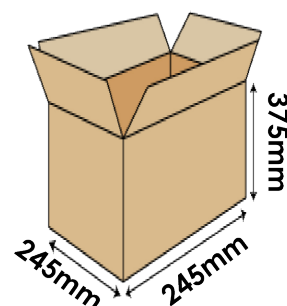
6Kg Powder AUTOMATIC FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A B C
EXTINGUISHING AGENT	ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N2, 14 Bar at 20°C
TEMPERATURE RANGE	-30°C +60°C
NOMINAL CHARGE	6 Kg
FULL WEIGHT	~ 10 Kg
DIMENSIONS	Height 360 +/- 5 mm Diameter 240 +/- 2 mm
COVERAGE AREA	~ 6 sq.m
DISCHARGE TIME	~ 9 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,2 L.
SAFETY DEVICE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

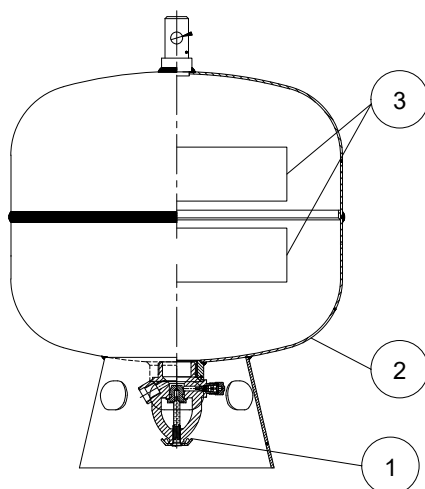
max 48 pieces for pallet 100x120



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

MAINTENANCE AND INSTALLATION

Recommended installation max 3 m. from ground. Do not expose to direct sunlight. Maintenance according to the norm in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M 30 X 1.5 with thermosensible bulb for activation at 68°C	
2	Cylinder	
3	Label	



9 Kg Powder FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Alloy steel, 3 pieces drawing, with clip, epoxypolyester powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Fire extinguisher pressurized at moment of use with gr. 200 CO₂ cartridge.
- **VALVE**
M. 74x2, lightweight aluminum alloy, activation with percussion method.
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).
- **BRACKET**
Wall-mounted bracket for fire extinguisher with clip, red painting, in standard equipment.

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

9 Kg powder fire extinguisher, pressurized at moment of use, temperature range from -30°C to +60°C, manufactured in accordance to **EN 3-7:2008**, certified according to the directive for pressure equipment PED 2014/68/EU. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER



**FIRE
RATING :**



55



233



✓

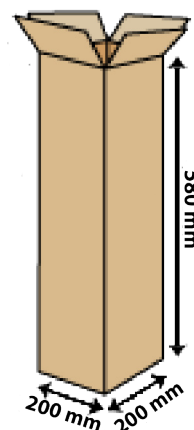
9 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	55 A 233 B C
EXTINGUISHING AGENT	EPW 18462 ABC powder - MAP 20 %
PROPELLANT	Internal cartridge with gr. 200 CO ₂
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	9 Kg
FULL WEIGHT	~ 15 Kg
DIMENSIONS	Height 530-545 mm Diameter 182 mm
DISCHARGE TIME	24,5 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	10,3 L.
SAFETY VALVE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

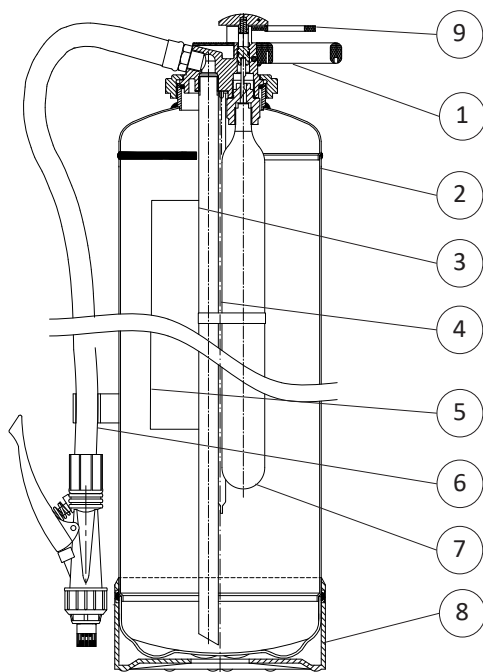
STANDARD : maximum 30 pieces on pallet 100x120x70(h) cm in single packaging



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 74x2	
2	Cylinder	
3	PVC dip tube	
4	Pressurization dip tube	
5	Label	
6	Hose	
7	gr. 200 CO ₂ cartridge	
8	PELD base	
9	Safety pin	
	Safety pin seal	
	ABC powder - MAP 20 % (9 Kg recharge)	



9 Kg Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, 3 pieces drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).

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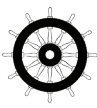
Note: image is for illustrative purpose only, the product purchased can has some differences

9 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



55



233



✓

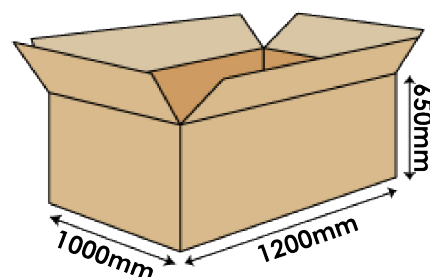
9 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

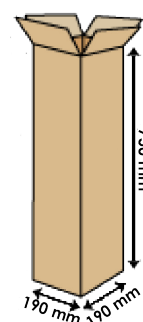
FIRE RATING	55 A 233 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	9 Kg
FULL WEIGHT	~ 14 Kg
DIMENSIONS	Height(base-valve) 635 mm Diameter 170 mm
DISCHARGE TIME	23 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	10,7 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

STANDARD : maximum 40 pieces for pallet
(40 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x80(h) cm



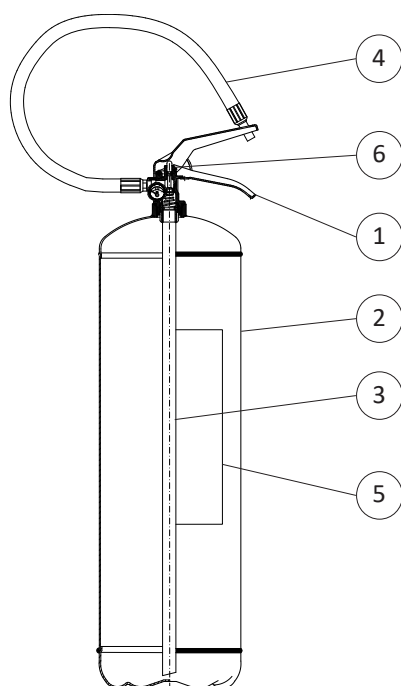
SINGLE PACKAGING
ON REQUEST:
- maximum 40 pieces
on pallet 100x120



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Label	
6	Safety pin	
	Safety valve	
	Safety pin seal	
OPTIONAL	Iron marine bracket red painting	



12 Kg Powder FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Alloy steel, 3 pieces drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Fire extinguisher pressurized at moment of use with gr. 225 CO₂ cartridge.
- **VALVE**
M. 74x2, lightweight aluminum alloy, activation with percussion method.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Wall-mounted bracket for cylinder with clip, red painting, in standard equipment.

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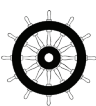
Note: image is for illustrative purpose only, the product purchased can has some differences

12 Kg powder fire extinguisher, pressurized at moment of use, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



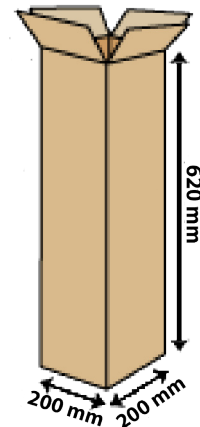
12 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	55 A 233 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Internal cartridge with gr. 225 CO ₂
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	12 Kg
FULL WEIGHT	~ 18,7 Kg
DIMENSIONS	Height 610(valve) / 625(hose) +/- 5 mm Diameter(cylinder) 182 +/- 2 mm
DISCHARGE TIME	30,9 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	12,2 L.
SAFETY DEVICE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and powder painting, Red Ral 3000 colour

PACKAGING

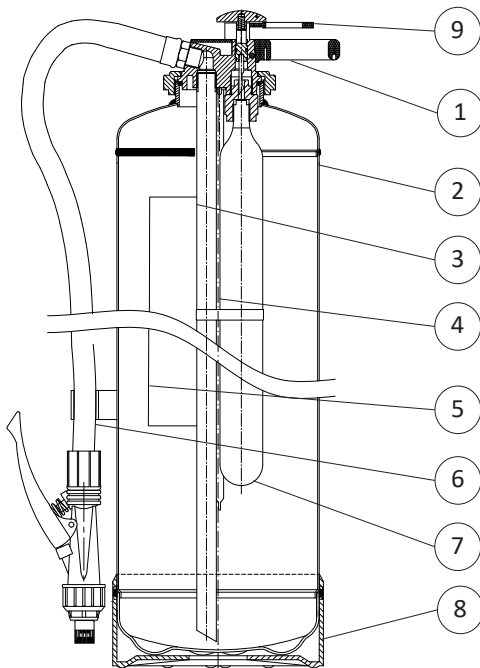
STANDARD : maximum 30 pieces
on pallet 100x120x75(h) cm
in single packaging



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 74x2	
2	Cylinder	
3	PVC dip tube	
4	Pressurization dip tube	
5	Label	
6	Hose	
7	gr. 225 CO ₂ cartridge	
8	PELD base	
9	Safety pin	
	Safety pin seal	



12 Kg Powder FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, 3 pieces drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).
- **BRACKET**
Wall-mounted for valve, in standard equipment.

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

12 Kg powder fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 3-7:2008**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



55



233



✓

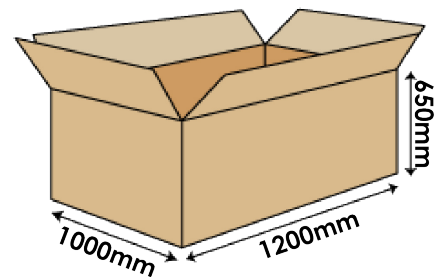
12 Kg Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	55 A 233 B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	12 Kg
FULL WEIGHT	~ 17,6 Kg
DIMENSIONS	Height 610 mm Diameter 190 mm
DISCHARGE TIME	29,5 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	12,5 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

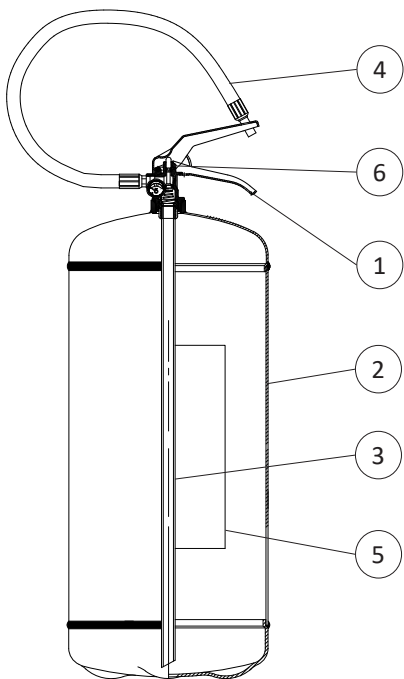
STANDARD : maximum 30 pieces for pallet
(30 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x75(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Label	
6	Safety pin	
	Safety valve	
	Safety pin seal	
	ABC powder - MAP 20 % (12 Kg recharge)	



12Kg Powder AUTOMATIC FIRE EXTINGUISHER



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

- **CYLINDER**
Alloy steel, 2 pieces, with protection for valve, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC powder.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
Sprinkler M 30X1.5, set to 68 °C.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Bracket for ceiling mounting.

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12Kg powder automatic fire extinguisher, temperature range from -30°C to +60°C, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER



**FIRE
RATING :**



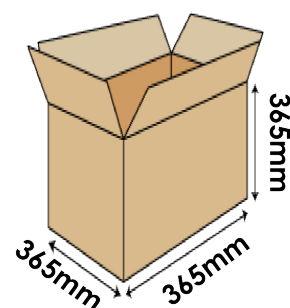
12Kg Powder AUTOMATIC FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A B C
EXTINGUISHING AGENT	ABC powder - MAP 20 %
PROPELLANT	Dehumidified air or N2, 14 Bar at 20°C
TEMPERATURE RANGE	-30°C +60°C
NOMINAL CHARGE	12 Kg
FULL WEIGHT	~ 18 Kg
DIMENSIONS	Height 360 +/- 5 mm Diameter 360 +/- 2 mm
COVERAGE AREA	~ 12 sq.m
DISCHARGE TIME	~ 14 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	13,5 L.
SAFETY DEVICE	Set between 22 and 27 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

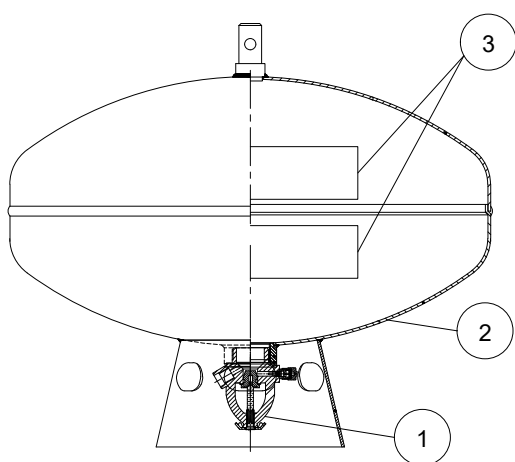
max 27 pieces for pallet 100x120



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

MAINTENANCE AND INSTALLATION

Recommended installation max 3 m. from ground. Do not expose to direct sunlight. Maintenance according to the norm in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M 30 X 1.5 with thermosensible bulb for activation at 68°C	
2	Cylinder	
3	Label	



12 Kg Potassium Bicarbonate Powder FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Alloy steel, 3 pieces drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
BC Powder - Potassium Bicarbonate.
- **PROPELLANT**
Fire extinguisher pressurized at moment of use with gr. 225 CO₂ cartridge.
- **VALVE**
M. 74x2, lightweight aluminum alloy, activation with percussion method.
- **USE**
B C fire rating
(flammable liquids, flammable gas).
- **BRACKET**
Wall-mounted bracket for cylinder with clip, red painting, in standard equipment.

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

12 Kg potassium bicarbonate powder fire extinguisher, pressurized at moment of use, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



233



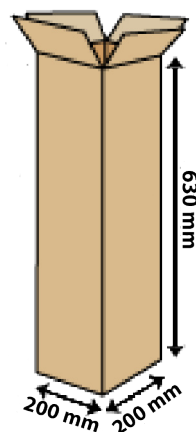
12 Kg Potassium Bicarbonate Powder FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	233 B C
EXTINGUISHING AGENT	EPBC 2050 BC powder - Potassium Bicarbonate
PROPELLANT	Internal cartridge with gr. 225 CO ₂
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	12 Kg
FULL WEIGHT	~ 18,7 Kg
DIMENSIONS	Height 610(valve) / 625(hose) mm Diameter(cylinder) 182 mm
DISCHARGE TIME	30 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	12,2 L.
SAFETY VALVE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

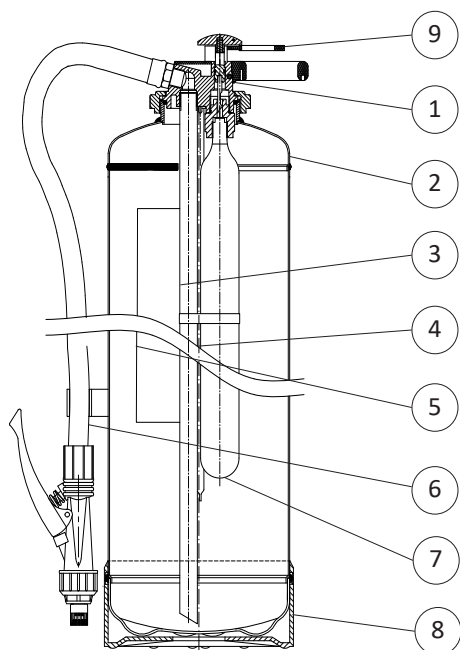
STANDARD : maximum 30 pieces on pallet 100x120x75(h) cm in single packaging



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 74x2	
2	Cylinder	
3	PVC dip tube	
4	Pressurization dip tube	
5	Label	
6	Hose	
7	gr. 225 CO ₂ cartridge	
8	PELD base	
9	Safety pin	
	Safety pin seal	



25 Kg Powder WHEELED FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, epoxypolyester powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or N₂.
- **VALVE**
2"-F, brass body, lever with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

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

25 Kg powder wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 1866-1**, certified according to the directive for pressure equipment PED 2014/68/EU. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



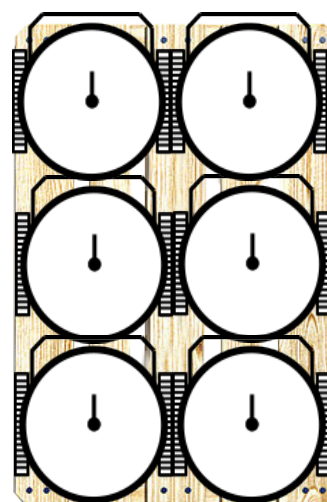
25 Kg Powder WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A II B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC Powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,14 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	25 Kg
FULL WEIGHT	~ 48 Kg
DIMENSIONS	Height 930 mm Width 410 mm Depth 410 mm
DISCHARGE TIME	26 sec.
VALVE TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	31 L.
SAFETY VALVE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

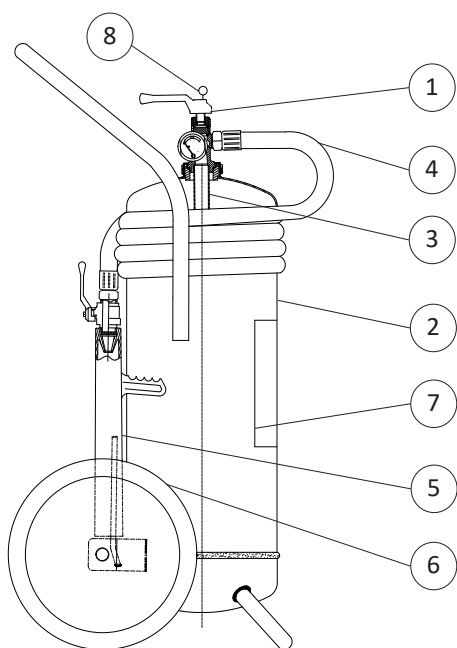
STANDARD : maximum 6 pieces for pallet
Pallet dimensions 100x120x120(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve 2''-F	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 300mm)	
7	Label	
8	Safety pin	
	Safety valve	
	Safety pin seal	
	ABC powder - MAP 20 % (25 Kg recharge)	

Use and Maintenance User Manual

BIOGENESIS



Biogenesis S.r.l.
www.bio-genesis.it

Wheeled Fire Extinguisher, 30 Kg ABC Powder



DISPENSING PISTOL
WITH CONNECTION
AT HOSE ROTATING*

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

- **CYLINDER**
In high-strength alloy steel, external powder painting Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Dehumidified air or nitrogen (N₂) .
- **VALVE**
2"-F , brass body, lever with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Chassis on wheels,
red painting Ral 3000.
- **DISPENSING PISTOL**
Body in plastic material.
*The rotating connection allow an easy unroll of hose.

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30 Kg powder wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **UNI 9492 (D.M. 6.3.92)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**

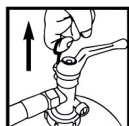


Wheeled Fire Extinguisher, 30 Kg ABC Powder

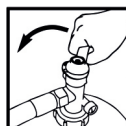
TECHNICAL SPECIFICATIONS

FIRE RATING	A B1 C
EXTINGUISHING AGENT	ABC Powder - MAP 20 % (Pro-Twenty - ProPhos Chemicals S.r.l)
PROPELLANT	Dehumidified air or Nitrogen (N ₂), 15 bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	30 Kg
FULL WEIGHT	~ 57 Kg
DIMENSIONS	Height 1100 +/-10 mm ; Width 460 +/-10 mm Depth 445 +/-10 mm
DISCHARGE TIME	~ 64,5 seconds

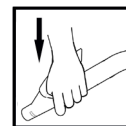
MODALITY OF USE



- 1) UNROLL THE HOSE
- 2) REMOVE SAFETY PIN



- 3) OPEN THE VALVE



- 4) HOLD THE PISTOL, MOVE THE LEVER AND AIM THE JET AT BASE OF FIRE

Follow the instructions present on the marking label.

ATTENTION: Do not direct the jet at people. If you're dispensing in close spaces, then ventilate the room. The fire extinguisher can be used on fire involving electrical voltages up to 1'000 V, at a distance of 1 meter.

INSTALLATION AND COMMISSIONING

The installation of the fire extinguisher must be performed according to the rules in force. The fire extinguisher have to be installed in areas with large spaces and free from obstacles. The fire extinguisher must be free of obstructions and marked by an appropriate identifying label. It is recommended to install it in a dry place, protected from the atmospheric agents. It is recommended the installation of water-based fire extinguishers for close spaces. The commissioning of the fire extinguisher for the protection of the area must be carried out by qualified personnel according to the rule in force within 6 months from the date of production and/or placing on themarket, reported in the declaration of conformity released by the producer.

MAINTENANCE PERIODS FOR EFFICIENCY GUARANTEES

The mantaning of the product efficiency have to be carried out from the responsible person. It is recommended a visual check of the efficiency state every three months since the commissioning time apart if there are different dispositions. It is advisable to : verify that the fire extinguisher would be in a correct position, safe and stable, free from impediment for the use; identify the fire extinguisher with an appropriate identification sign; make sure of its structural integrity and that is free from any damage; check that the original documentations is available. Any restoration operations and instrumental checking have to be realized exclusively by qualified personnel who possess the necessary documentations to maintain the constancy of the product performance. Any tampering or intromission by unauthorized personnel voids the product warranty.



50 Kg Powder WHEELED FIRE EXTINGUISHER



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

- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Aria deumidificata o N₂.
- **VALVE**
2"-F , brass body, lever with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

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50 kg powder wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 1866-1**, certified according to the directive for pressure equipment PED 2014/68/EU. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



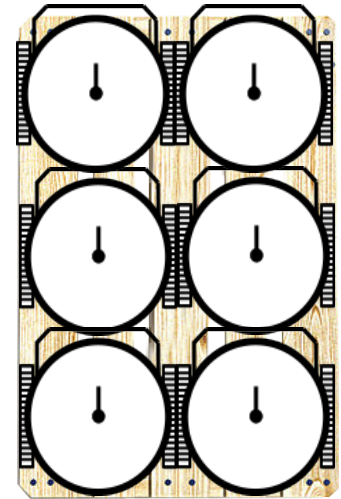
50 Kg Powder WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A III B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC Powder - MAP 20 %
PROPELLANT	Dehumidified air or N ₂ ,14 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	50 Kg
FULL WEIGHT	~ 79 Kg
DIMENSIONS	Height 1100 mm Width 480 mm Depth 480 mm
DISCHARGE TIME	50 sec.
VALVE TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	62 L.
SAFETY VALVE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

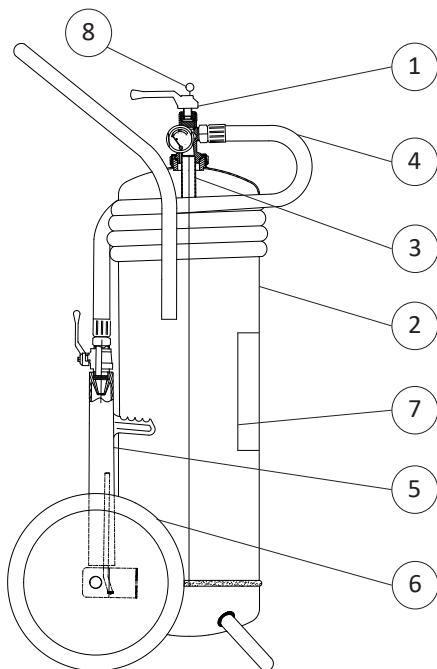
STANDARD : maximum 6 pieces for pallet
Pallet dimensions 100x120x135(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the norm in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve 2''-F	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 300mm)	
7	Label	
8	Safety pin	
	Safety valve	
	Safety pin seal	
	ABC powder - MAP 20 % (25 Kg recharge)	



50 Kg Powder WHEELED FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 20 %.
- **PROPELLANT**
Fire extinguisher pressurized at moment of use with CO₂ external cylinder, complete of protection for valve.
- **CAP**
Brass body, 2".
- **USE**
A B C fire rating (solid materials, flammable liquids, flammable gas).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

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

50 Kg powder wheeled fire extinguisher, pressurized at moment of use, temperature range from -30°C to +60°C, manufactured in accordance to **UNI EN 1866-1 (D.M. 6.3.92)**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



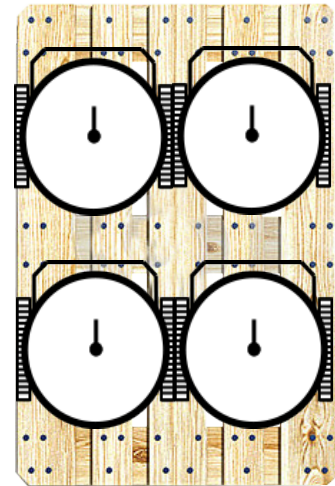
50 Kg Powder WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A IV B C
EXTINGUISHING AGENT	EPW 18462 (ABC Favorit Tertia) ABC Powder - MAP 20 %
PROPELLANT	1,2 Kg of CO ₂
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	50 Kg
FULL WEIGHT	~ 85 Kg
DIMENSIONS	Height 1100 +/- 5 mm Width 490 +/- 5 mm Depth 560 +/- 5 mm
DISCHARGE TIME	~ 59,2 sec.
CAP TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	62 L.
SAFETY DEVICE	Set between 21 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

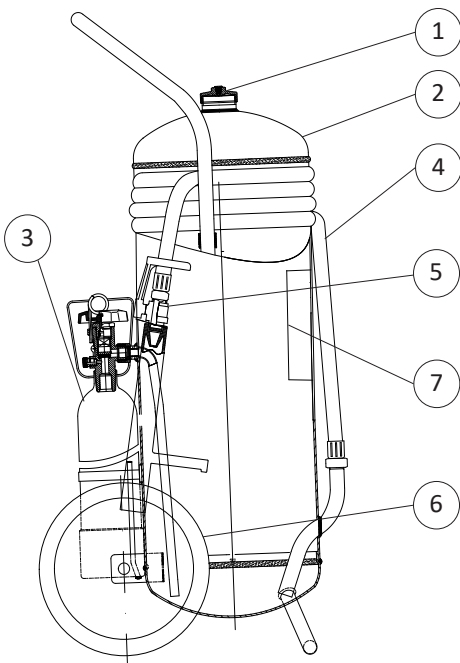
STANDARD : maximum 4 pieces for pallet
Pallet dimensions 100x120x135(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the rules in use in utilization country.



SAPARE PARTS

NUMBER	DESCRIPTION	
1	Brass cap, 2"	
2	Cylinder	
3	External cylinder CO ₂ , complete of protection for valve	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 300mm)	
7	Label	



100 Kg Powder WHEELED FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 40 %.
- **PROPELLANT**
Aria deumidificata o N₂.
- **VALVE**
2"-F, brass body, lever with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

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

100 Kg powder wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 1866-1**, approved to European Marine Directive **MED 2014/90/EU**, **S.O.L.A.S.** (Safety of life at sea) '74 (2000), certified according to the directive for pressure equipment PED 2014/68/EU.

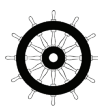
Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

AVAILABLE VERSIONS

N.	CODE	DESCRIPTION
1	16118	100 Kg powder fire extinguisher, complies MED 2014/90/EU

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



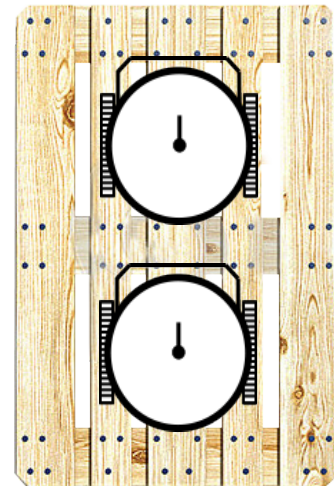
100 Kg Powder WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A IV B C
EXTINGUISHING AGENT	EPB 0351 (QFIRE-40) ABC Powder - MAP 40 %
PROPELLANT	Dehumidified air or N ₂ ,14 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	100 Kg
FULL WEIGHT	~ 146 Kg
DIMENSIONS	Height 1300 mm Width 560 mm Depth 540 mm
DISCHARGE TIME	62 sec.
VALVE TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	102 L.
SAFETY VALVE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

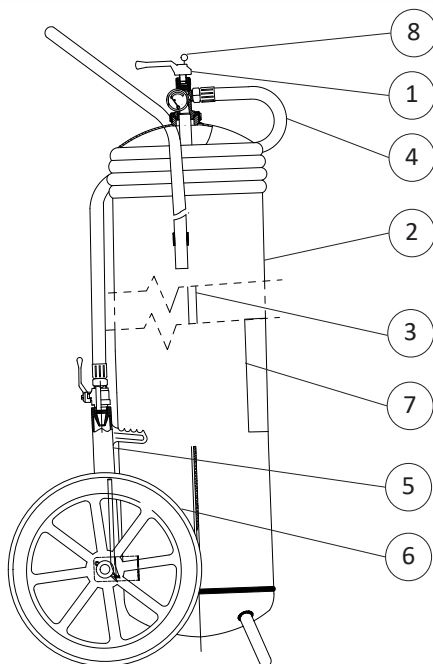
STANDARD : maximum 2 pieces for pallet
Pallet dimensions 100x120x145(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve 2"-F	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 400mm)	
7	Label	
8	Safety pin	
	Safety valve	
	Safety pin seal	
	ABC powder - MAP 40 % (25 Kg recharge)	



100 Kg Powder WHEELED FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
ABC Powder - MAP 40 %.
- **PROPELLANT**
Aria deumidificata o N₂.
- **VALVE**
2"-F, brass body, lever with red painting Ral 3000.
- **USE**
A B C fire rating
(solid materials, flammable liquids, flammable gas).
- **BRACKET**
Chassis on wheels, welded at the cylinder, red painting Ral 3000.

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

100 Kg powder wheeled fire extinguisher, temperature range from -30°C to +60°C, manufactured in accordance to **EN 1866-1**, approved to European Marine Directive **MED 2014/90/EU**, **S.O.L.A.S.** (Safety of life at sea) '74 (2000), certified according to the directive for pressure equipment PED 2014/68/EU.

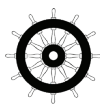
Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

AVAILABLE VERSIONS

N.	DESCRIPTION
1	100 Kg powder fire extinguisher, complies MED 2014/90/EU

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



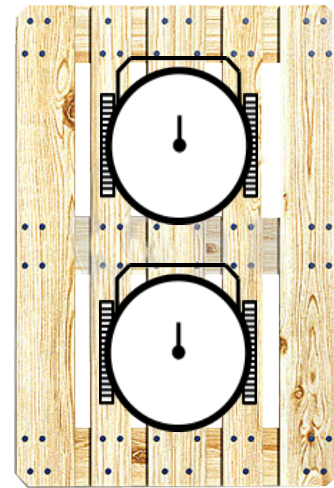
100 Kg Powder WHEELED FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	A IV B C
EXTINGUISHING AGENT	EPB 0351 (QFIRE-40) ABC Powder - MAP 40 %
PROPELLANT	Dehumidified air or N ₂ ,14 Bar at 20°C
TEMPERATURE RANGE	-30°C / +60°C
NOMINAL CHARGE	100 Kg
FULL WEIGHT	~ 146 Kg
DIMENSIONS	Height 1300 mm Width 560 mm Depth 540 mm
DISCHARGE TIME	62 sec.
VALVE TIGHTENING TORQUE	Minimum 60 Nm, Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	102 L.
SAFETY VALVE	Set 24 +/- 2 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

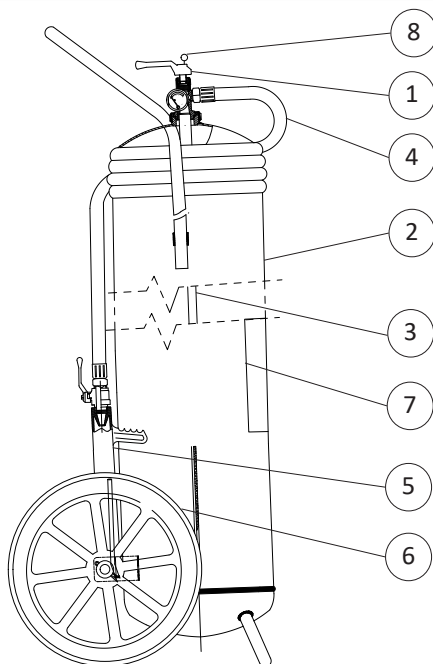
STANDARD : maximum 2 pieces for pallet
Pallet dimensions 100x120x145(h) cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve 2"-F	
2	Cylinder	
3	PVC dip tube	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 400mm)	
7	Label	
8	Safety pin	
	Safety valve	
	Safety pin seal	
	ABC powder - MAP 40 % (25 Kg recharge)	



150Kg Powder WHEELED FIRE EXTINGUISHER



Note: Image is for illustrative purpose only, the product bought can has some differences

150kg powder wheeled fire extinguisher, pressurized at moment of use, temperature range from -30°C to +60°C, manufactured in accordance to **EN 1866-1**, approved to European Marine Directive **MED 2014/90/EU, S.O.L.A.S.** (Safety of life at sea) '74 (2000), certified according to the directive for pressure equipment PED 2014/68/EU. Quality Product certification guaranteed by Bureau Veritas Italia. Suitable for use on fire involving electrical voltages up to 1000 V, minimum distance of 1 mt.

AVAILABLE VERSIONS

N.	DESCRIPTION
1	150kg powder fire extinguisher, complies MED 2014/90/EU

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



150Kg Powder WHEELED FIRE EXTINGUISHER

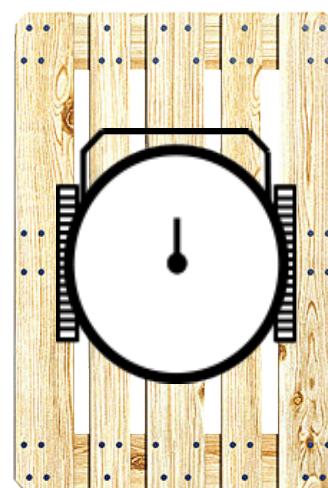
TECHNICAL SPECIFICATIONS

FIRE RATING	A IV B C
EXTINGUISHING AGENT	EPB 0351 (Q-Fire 40) Powder MAP 40 %
PROPELLANT	2,5 Kg of CO2
TEMPERATURE RANGE	-30°C +60°C
NOMINAL CHARGE	150 Kg
FULL WEIGHT	~ 210 Kg
DIMENSIONS	Height 1350 mm Width 750 mm Depth 640 mm
DISCHARGE TIME	~ 92,3 sec.
CAP TIGHTENING TORQUE	Minimum 60 Nm - Maximum 70 Nm
CYLINDER PRESSURE TEST	PT 30 bar
CYLINDER VOLUME	170 L.
SAFETY DEVICE	Set between 21 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour

PACKAGING

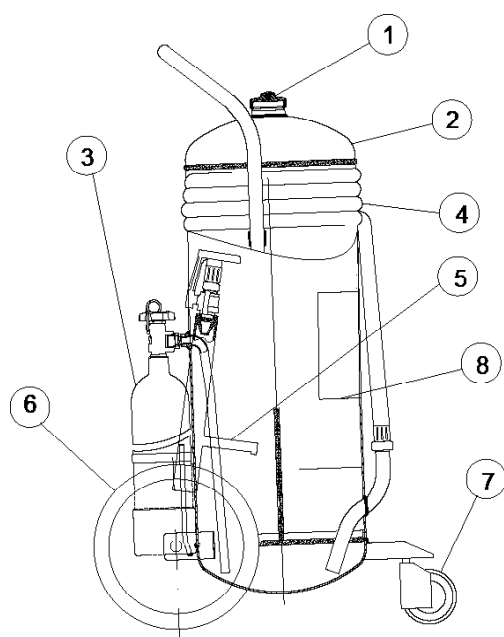
STANDARD :

max 1 pieces on pallet 100x120x150



MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover. Maintenance according to the norm in use in utilization country.



SAPARE PARTS

NUMBER	DESCRIPTION	
1	Cap 2"	
2	Cylinder	
3	External cylinder CO2, complete of protection for valve	
4	Hose	
5	Dispensing nozzle (complete of ball valve with control lever)	
6	Wheel + wheel stop (diam. 400mm)	
7	Front wheel	
8	Label	



6 L. Water FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Stainless steel AISI 304, 3 pieces drawing, with clip, polished.
- **EXTINGUISHING AGENT**
Water .
- **PROPELLANT**
Dehumidified air or N₂ .
- **VALVE**
M. 58x2, lightweight aluminum alloy AA6061 body, with external check valve, black painting.
- **USE**
A fire rating (solid materials).
- **BRACKET**
Wall-mounted for valve, in standard equipment.

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

6 L. water fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **EN 3-7**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



13

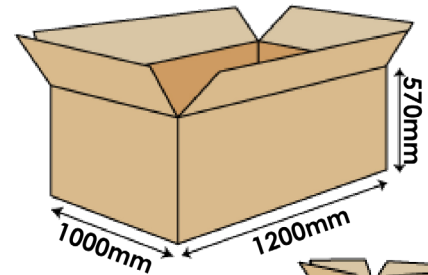
6 L. Water FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	13 A
EXTINGUISHING AGENT	Water
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 L.
FULL WEIGHT	~ 8,8 Kg
DIMENSIONS	Height 560 mm Diameter 160 mm
DISCHARGE TIME	21 sec.
VALVE TIGHTENING TORQUE	Minimum 40 Nm, Maximum 60 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,8 L.
SAFETY VALVE	Set between 22 and 27 bar
CYLINDER MATERIAL	Stainless steel AISI 304
EXTERNAL/INTERNAL TREATMENT	Polishing

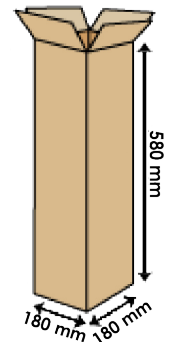
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING ON REQUEST:

- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm

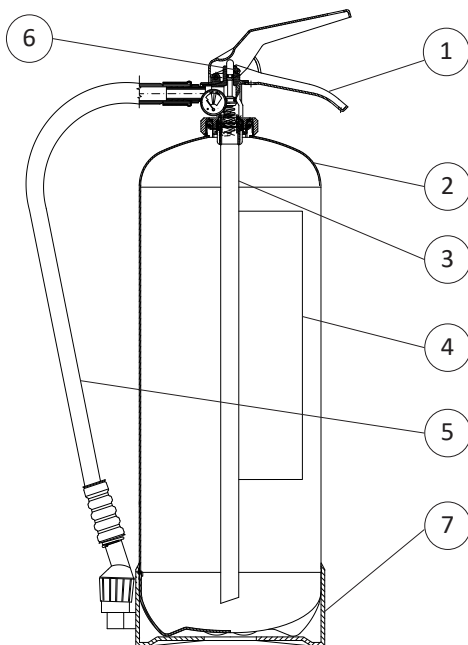


Note: the packaging quantities and measurements are indicative and can be subject at changes

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.

SPARE PARTS



NUMBER	DESCRIPTION	
1	Valve M. 58x2	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
7	PELD base	
	Safety valve	
	Safety pin seal	
	Check valve	
	Water (6 L. recharge, ready to use)	
OPTIONAL	Wall-mounted bracket for fire extinguisher with clip, red painting	



6 L. Water FIRE EXTINGUISHER



- **CYLINDER**
Alloy steel, deep drawing, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water .
- **PROPELLANT**
Dehumidified air or N₂ .
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000.
- **USE**
A fire rating (solid materials).

**WATER DIELECTRIC
FIRE EXTINGUISHER**
*Suitable up to 1'000 V
at a distance of 1 mt.*

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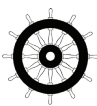
Note: image is for illustrative purpose only, the product purchased can has some differences

6 L. water fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7 (D.M. 7.1.2005)**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



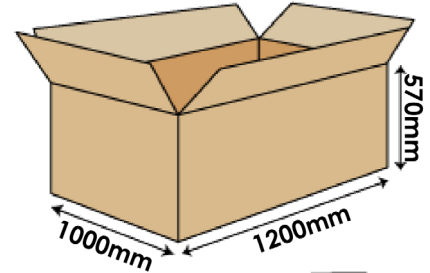
6 L. Water FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	13 A
EXTINGUISHING AGENT	Water
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	6 L.
FULL WEIGHT	~ 9,4 Kg
DIMENSIONS	Height(base-valve) 540 mm Diameter 160 mm
DISCHARGE TIME	22 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	7,5 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ Internal plastic lining

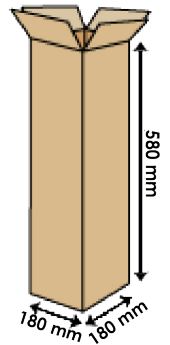
PACKAGING

STANDARD : maximum 100 pieces for pallet
(44 pieces for box, max 2 boxes for pallet)
(12 pieces in single packaging)
Pallet dimensions 100x120x160(h) cm



SINGLE PACKAGING
ON REQUEST:

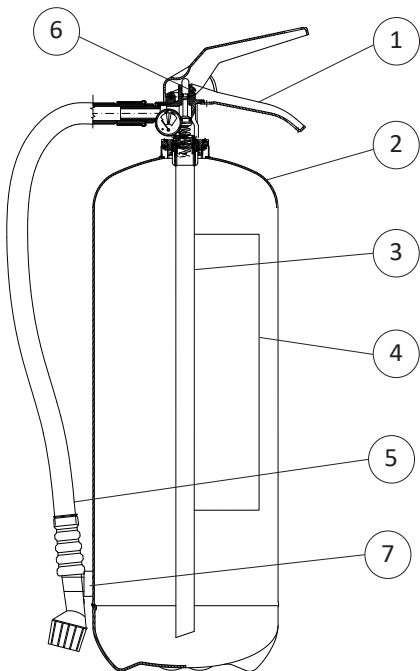
- maximum 64 pieces on pallet 100x120 cm
- maximum 48 pieces on pallet 80x120 cm



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
7	Magnet stop hose	
	Safety valve	
	Safety pin seal	
	Water (6 L. recharge, ready to use)	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Stainless steel marine bracket	



9 L. Water FIRE EXTINGUISHER



CLIP DETAIL



- **CYLINDER**
Alloy steel, 3 pieces drawing, with clip, epoxypolyestere powder painting, Red Ral 3000.
- **EXTINGUISHING AGENT**
Water .
- **PROPELLANT**
Dehumidified air or N₂ .
- **VALVE**
M. 30x1.5, brass body, levers with red painting Ral 3000 .
- **USE**
A fire rating (solid materials).

**WATER DIELECTRIC
FIRE EXTINGUISHER**
*Suitable up to 1'000 V.
at a distance of 1 mt.*

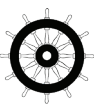
Note: image is for illustrative purpose only, the product purchased can has some differences

9 L. water fire extinguisher, temperature range from +5°C to +60°C, manufactured in accordance to **UNI EN 3-7**, approved Marine Equipment Directive **MED 2014/90/EU**, certified according to the directive for pressure equipment PED 2014/68/EU.

Quality Product certification guaranteed by Bureau Veritas Italia.

Suitable for use on fire involving electrical voltages up to 1'000 V, at a distance of 1 mt.

APPROVED/CERTIFIED FIRE EXTINGUISHER:



**FIRE
RATING :**



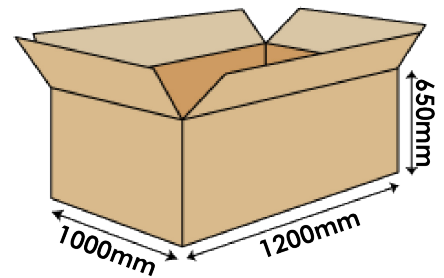
9 L. Water FIRE EXTINGUISHER

TECHNICAL SPECIFICATIONS

FIRE RATING	21 A
EXTINGUISHING AGENT	Water
PROPELLANT	Dehumidified air or N ₂ ,15 Bar at 20°C
TEMPERATURE RANGE	+5°C / +60°C
NOMINAL CHARGE	9 L.
FULL WEIGHT	~ 14 Kg
DIMENSIONS	Height(base-valve) 635 mm Diameter 170 mm
DISCHARGE TIME	38 sec.
VALVE TIGHTENING TORQUE	Minimum 45 Nm, Maximum 68 Nm
CYLINDER PRESSURE TEST	PT 27 bar
CYLINDER VOLUME	10,7 L.
SAFETY VALVE	Set between 20 and 26 bar
CYLINDER MATERIAL	Alloy steel
EXTERNAL/INTERNAL TREATMENT	Sandblast and epoxypolyestere powder painting, Red Ral 3000 colour/ Internal plastic lining

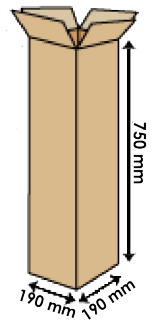
PACKAGING

STANDARD : maximum 40 pieces for pallet
(40 pieces for box, max 1 box for pallet)
Pallet dimensions 100x120x80(h) cm



SINGLE PACKAGING
ON REQUEST:

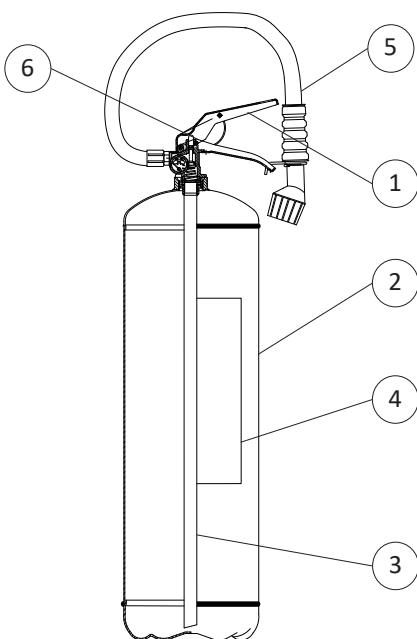
- maximum 40 pieces
on pallet 100x120



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

MAINTENANCE AND INSTALLATION

For outdoor or marine installation is recommended to protect the fire extinguisher with cover or box. Maintenance according to the rules in use in utilization country.



SPARE PARTS

NUMBER	DESCRIPTION	
1	Valve M. 30x1.5	
2	Cylinder	
3	PVC dip tube	
4	Label	
5	Hose with dispensing nozzle	
6	Safety pin	
	Safety valve	
	Safety pin seal	
	Water (9 L. recharge, ready to use)	
OPTIONAL	Iron marine bracket red painting	
OPTIONAL	Wall-mounted bracket for cylinder with clip, red painting	