

# Technical Manual



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## GW100A 19118-701L : Wheeled Fire Extinguisher, 100 L Foam

EXTINGUISHING AGENT SUITABLE FOR LITHIUM BATTERIES



### FLUORINE FREE



DISPENSING PISTOL WITH  
ROTATING CONNECTION

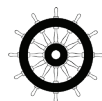
- CYLINDER  
Stainless steel AISI 304,  
powder painting, Red Ral 3000.
- EXTINGUISHING AGENT  
Fluorine free foam, water based.
- PROPELLANT  
Auxiliary pressure.  
Fire extinguisher pressurized at  
moment of use with Nitrogen (N<sub>2</sub>).
- CAP  
2"-F, brass.
- USE  
A B fire rating  
(solid materials, flammable liquids).
- BRACKET  
Chassis on wheels, welded at the  
cylinder, red painting Ral 3000.
- DISPENSING PISTOL  
Body in plastic material.  
The rotating connection allow an easy  
unroll of hose.

REPRODUCTION IS PROHIBITED

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

100 L foam 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/UE**, 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 :



| File name                           | Type of document | Fire Extinguisher Model | Date       | Rele. | Check | Rev. | Pag. |
|-------------------------------------|------------------|-------------------------|------------|-------|-------|------|------|
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- **INSTALLATION** The installation must be carried out in accordance with the provisions in force in the country where the device is used. The commissioning and maintenance activities for maintaining efficiency must be carried out in accordance with the document **CSA\_1-B\_ENG** by qualified
- **USE**
- **MAINTENANCE** technical personnel and in compliance with the regulations in force in the country of use.

Any tampering or intervention carried out by unqualified personnel will void the product warranty.

It is recommended to place the device in a dry place protected from atmospheric agents.

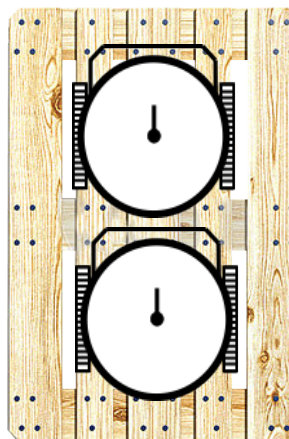
## TECHNICAL SPECIFICATIONS

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| FIRE RATING            | A IV B                                                             |
| EXTINGUISHING AGENT    | 100% Green Wave Premix Lith-M                                      |
| PROPELLANT             | Nitrogen (N <sub>2</sub> ), 100 Bar                                |
| TEMPERATURE RANGE      | +5°C / +60°C                                                       |
| NOMINAL CHARGE         | 100 Liters                                                         |
| FULL WEIGHT            | ~ 153 Kg                                                           |
| DIMENSIONS             | Height 1350 +/- 10 mm ; Width 595 +/- 10 mm<br>Depth 560 +/- 15 mm |
| DISCHARGE TIME         | ~ 687 seconds                                                      |
| CYLINDER PRESSURE TEST | PT 30 bar                                                          |
| CYLINDER VOLUME        | 134 L                                                              |
| SAFETY DEVICE          | Set between 21 and 26 bar                                          |
| CYLINDER MATERIAL      | Stainless steel AISI 304                                           |
| TREATMENT              | Outside: Sandblast and powder painting Ral 3000                    |

## PACKAGING

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

STANDARD  
Maximum nr. 2 pieces for pallet  
Pallet dimensions 100x120x150(h) cm



## TRANSPORT DISPOSAL

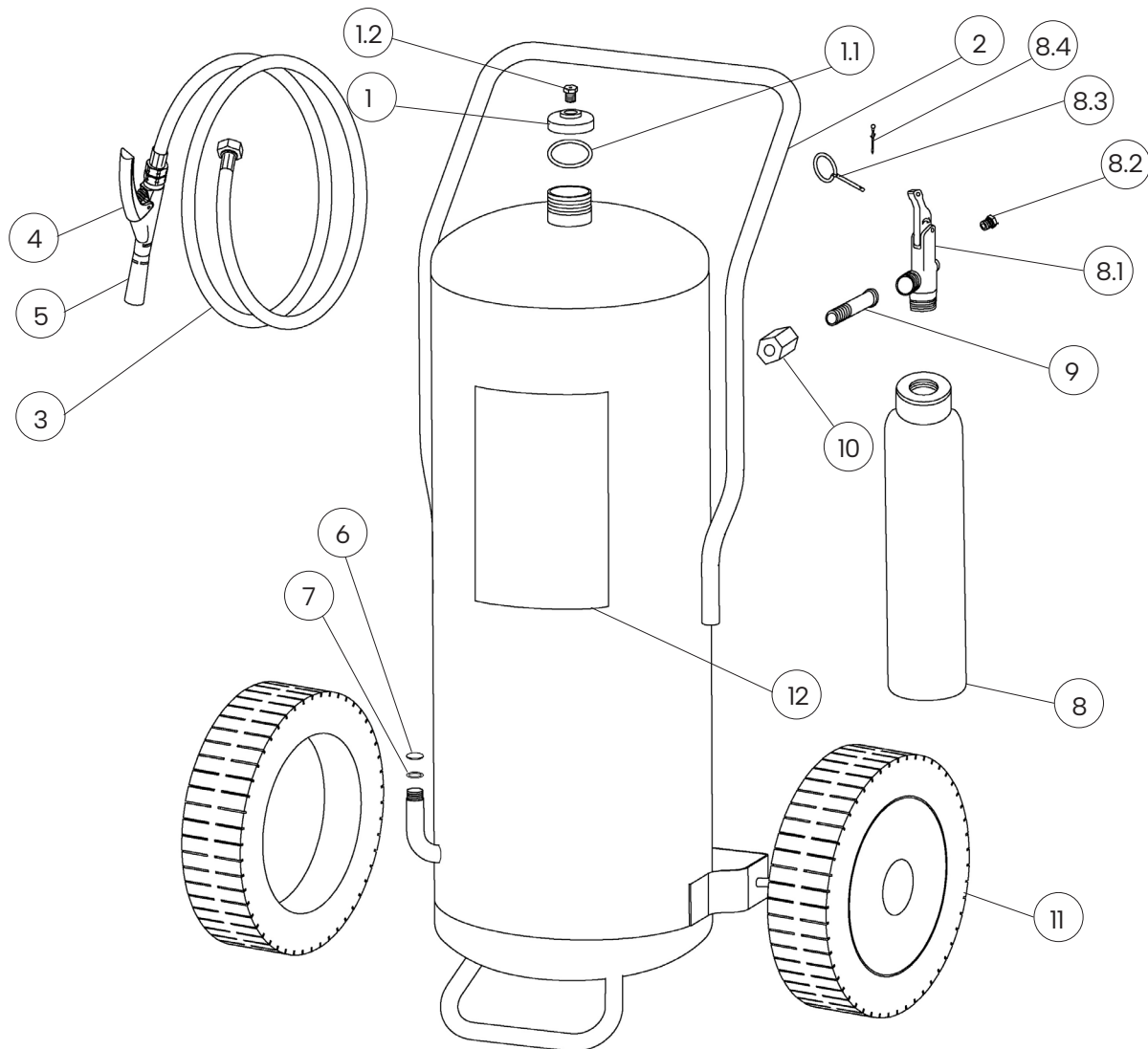
Land transport : Exemption for the purposes of ADR disposal 594

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

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## COMPONENTS AND SPARE PARTS LIST



| NUM. | DESCRIPTION                                     | CODE    |
|------|-------------------------------------------------|---------|
| 1    | 2" brass cap                                    | 18463   |
| 1.1  | O-ring cap                                      | n.a.    |
| 1.2  | Safety device                                   | n.a.    |
| 2    | Cylinder                                        | 18324   |
| 3    | Hose                                            | 18421-5 |
| 4    | Dispensing pistol                               | 2181-4  |
| 5    | Dispensing nozzle                               | 1645-5  |
| 6    | Membrane                                        | 0262-4  |
| 7    | Copper washer                                   | 2148-11 |
| 8    | Complete pressurization cylinder, with Nitrogen | 18516-2 |

| NUM. | DESCRIPTION                                       | CODE      |
|------|---------------------------------------------------|-----------|
| 8.1  | Tilting valve W28.8 x 1/14" for nitrogen cylinder | 0223L     |
| 8.2  | Safety device                                     | n.a.      |
| 8.3  | Safety pin                                        | 0282-1    |
| 8.4  | Safety pin seal                                   | 0285      |
| 9    | Fitting for cylinder with nitrogen cylinder       | 18489     |
| 10   | Fitting for nitrogen cylinder with cylinder       | 18495     |
| 11   | Wheel (diam. 400mm)                               | 0125      |
|      | Thick washer                                      | 2148-10   |
|      | Cotter pin stop wheel                             | 9443      |
| 12   | Label                                             | 18344-71L |

The spare part at number 1 (valve) includes already others components 1.1 and 1.2  
The spare part at number 8 (cylinder) includes already others components indicated from 8.1 to 8.4  
"n.a." mean that the component is not available as single spare part.

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## 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 fire extinguisher is therefore effective in containing the flames emanated from a battery with same or inferior characteristics compared to the one tested.

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

### SAFETY WARNING



*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 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.

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