THANK YOU FOR PURCHASING THIS HIGH QUALITY PRODUCT!

HAFEX
HALON ALTERNATIVE
FIRE EXTINGUISHER

OPERATING INSTRUCTIONS (P3DOC001355 Issue B) and CE Conformity Declaration for Aircraft Fire Extinguisher

+ Fire Extinguisher Model Type: P3APP003010
+ Bracket Model Type: P3APP003020

+ add an extra to the ordinary
**WARNING** Failure to follow the given advice may result in serious injury or even death

+ Before using this product, read these operation instructions thoroughly. You will find important safety information.
+ This fire extinguisher is designed for fighting fires in aircraft cabins, cockpit and cargo compartments. It is suitable to attack organic fires, liquid fires and fires in electrical installations.
+ P3HAFEX Fire Extinguisher fulfills the European Standard EN 4649 - Handheld fire extinguishers with synthesis gases

### CONFIGURATIONS – HAFEX COLOR CODING

+ Red color coding – standard configuration - P3HAFEX: P3APP003010A
+ Yellow color coding for Australian standard - P3HAFEX: P3APP003010B
+ Green color coding for British standard - P3HAFEX: P3APP003010C

### CONFIGURATIONS – HAFEX BRACKET

+ P3APP003020A
+ P3APP003020B
SAFETY RULES

Please thoroughly read these safety rules prior to installing the fire extinguisher in its place of destination and/or its initial use.

+ Never hand the fire-extinguisher over to third parties without this associated document.
+ Use the fire extinguisher only for the purpose for which it was designed following the instructions located in this document and on the label.
+ Only use the fire extinguisher for fire classes as indicated by the label on the cylinder.
+ Never use the extinguisher on fires involving burning metals or burning oil!
+ All potential users of the fire extinguisher should be instructed on the correct use of the fire extinguisher and be aware of the risks involved in case of its misuse.
+ Keep out of the reach of children.
+ Never expose persons to the direct jet of the extinguishing agent. Keep a distance of at least 1 meter, if the burning clothes of persons are to be extinguished.
+ The cylinder may be under pressure. Therefore make sure that no attempts are made to exert any external force or to open the fire extinguisher by force.
+ Avoid exposing the unit to direct sunlight or excessive heat.
+ Install the fire extinguisher only by using the original P3 bracket models of type P3APP003020 as listed in the Component Maintenance Manual (CMM) – P3DOC001296.
+ Keep the fire extinguisher clean and periodically inspected in compliance with the Component Maintenance Manual (CMM) – P3DOC001296.
+ Disposal of end-of-life fire extinguishers must be in accordance with existing laws on environmental protection.
PRODUCT DESCRIPTION

- **Fire Extinguisher Description:**
  1. Lever
  2. Handle
  3. Safety Pin
  4. Pressure Gauge
  5. Cylinder
  6. Label
  7. RFID Tag

- **Bracket Description:**
  8. Strap
  9. Bracket

- **Extinguishing Agent:** HALOTRON® BrX
- **Expellant gas:** Nitrogen
- **Max. gross weight (incl. bracket):** 2.357 KG (5.185 LBS)
- **Max. gross weight extinguisher:** 2.183 KG (4.813 LBS)
- **Min. gross weight extinguisher:** 2.076 KG (4.577 LBS)
- **Operating pressure:** \( ps = 9 \text{ bar (130 psi)} \) at \( 20^\circ \text{C} \)
- **Test pressure:** \( pT = 27 \text{ bar (392 psi)} \)
- **Burst pressure:** \( pr \geq 55 \text{ bar (798 psi)} \)
- **Operating temperature range:** \(-40^\circ \text{C} \leq T \leq 70^\circ \text{C} \) \((-40^\circ \text{F} \leq T \leq 158^\circ \text{F})
- **Survival temperature range:** \(-55^\circ \text{C} \leq T \leq 85^\circ \text{C} \) \((-67^\circ \text{F} \leq T \leq 185^\circ \text{F})
- **Altitude Rating:** 40,000 ft
PRODUCT INSTALLATION

+ Fire Extinguisher can be installed vertically or horizontally using different hole patterns (refer to the different colors for all allowed combinations)

+ Bracket attachment is qualified for using:
  - Washer DAN125-4 - Screw NAS1102-08-xx
  - Alternative Washer DAN125-5 - Screw NAS1102-3-xx
  For hole pattern marked with black circles:
  - Washer NAS1149D033K - Screw NAS1802-3-xx
  - Alternative Washer NAS1149CN832R - Screw NAS1802-08-xx

+ Position of the bracket latches can be adjusted. It is recommended to turn the latches so that the hooks can be opened easily but not accidentally

+ By fixing the fire extinguisher into the bracket, make sure that the handle can be easily grasped and the pressure gauge is visible
OPERATING INSTRUCTIONS – IN CASE OF FIRE

+ **Keep Calm!**

+ Search for the nearest available fire extinguisher
+ Open the first strap, secure the extinguisher with one hand, open the second strap and remove the fire extinguisher.
+ Hold the fire extinguisher upright with one hand and remove the safety pin with the other hand, pulling it along its axis.
+ Aim the nozzle of the fire extinguisher at the base of the fire. The optimal distance to the fire-base is 1.5 – 2 meters (~6 ft).
+ Push the lever of the fire extinguisher. This will immediately start the flow of agent. Releasing the lever will interrupt the flow.
+ Sweep the agent stream from side to side, until the fire is extinguished.
+ Once the fire goes out, keep an eye on the area, and be prepared to repeat the process if the fire re-ignites.

+ **Operating time: approx. 9 -10 seconds**
PRODUCT TRACEABILITY

- **HAFEX Fire Extinguishers are equipped with a RFID Tag:**
  
  - **RFID Tag Model:** BRADY B1100 MEDIUM TAG
  
  - **Information content:**

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- **Information can be read with a RFID Reader (e.g. Motorola MC9190-Z RFID)**
+ The condition of the fire extinguisher can be checked at all times. This is done by reading the indicator on the pressure gauge. At 20° C it must be around the 9 bar mark, at -40° C it should be at the lower end of the green area and at 70° C it should be at the upper end. Slight variations are normal and acceptable due to the temperature-dependency of the pressure and the tolerance of the gauge.

![Pressure Gauge Image]

+ Examine the nozzle for obstruction. Check that the extinguisher, the safety pin and the safety seal are undamaged.

+ For inspection intervals and information for cleaning, check and re-pressurization refer to the Component Maintenance Manual (CMM) – P3DOC001296
P3 engineering GmbH, D-21079 Hamburg, confirms that the following product
Portable fire extinguisher type: P3APP003010

is in conformity with:
+ The generally acknowledged rules of engineering (Sound Engineering Praxis)
+ EU Type-Examination Certificate for the assembly given by APRAGAZ, Chaussée de Vilvorde 156, B-1120 Bruxelles, Notified body identification number.: CE0029

The notified body has allowed the manufacturer to affix the CE 0029 mark in accordance with the procedure of evaluation of the conformity to the type and with the CE examination according to the above-mentioned type, such as the module B1 (according to Directive 97/23/EC, changed to Module B, EU-type examination – design type in Directive 2014/68/EU) and module D. Number of the type approval certificate: 16/IT/3949-0-REV 0 and successive revisions.

Hamburg 07.10.2016

Marta Elvers
(Head of Cabin, Proxy Holder)
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