MAKING THE IMPOSSIBLE POSSIBLE – P3 AND ITS HAFEX BACKGROUND

Back in November 2014, OEMs were looking for an eco-friendlier fire extinguisher. It was also to be smaller, lighter and more flexible to install than any other alternative in the market. It was nowhere to be found. P3 was challenged to deliver a solution.

Undeterred from common opinion that everyone was demanding the impossible, P3 set up a partnership with extinguishing experts FIREMARK and the manufacturers ANAFGROUP, with P3 adding their own aviation qualification and integration expertise to round off the set up.

With no burdening past as extinguisher manufacturers, no production lines to fill and without ideological blinkers, P3 and co. went about their business finding the very best solution, eventually defying the odds and proving mission possible: P3 HAFEX was born.

In dealing with this sensitive issue of The Montreal Protocol on Substances that Deplete the Ozone Layer and, P3 are well ahead of schedule.

Only recently did the International Civil Aviation Organisation (ICAO) and EASA both re-set the deadline for the transition to eco-friendly fire extinguishers from 2016 to the end of 2018, with all remaining aircraft required to retrofit by 2025.

P3 is the only supplier to succeed in meeting the original deadline.

P3

The P3 group is a worldwide network of consultants and engineers operating more than 40 locations in 15 countries.

3500 highly skilled and motivated employees specialise in the fields of automotive, aviation, telecommunication, energy and their various intersections as well as serving the public sector.

With an extraordinary mix of spirit, knowledge, experience, creativity and curiosity, P3’s services have successfully been delivering solutions, innovation and transformation to businesses and adding sustainable value to their clients’ enterprises since 1996.

For many years now, P3’s engineering division has been a Tier 1 supplier and a risk share partner for cabin product developments, too.

All customers know that when push comes to shove and creative solutions are required, P3’s the first port of call.
INTRODUCTION
Since the 1960’s Halon was widely used in handheld portable fire extinguishers in aviation.

Upon the identification of Halon as a CFC gas and its condemnation in the Montreal Protocol on Substances that Deplete the Ozone Layer, the production of Halon was ceased in most countries in 1994 due to its negative environmental impacts. Today, its use has now largely been restricted or banned for all but “critical applications” such as aviation, military, and police use, but these are now subject to phase out deadlines, as well.

Thus, new halon-free products are required due to upcoming changes in regulation (EASA & ICAO) with cut-off dates for newly built large aircrafts from 31.12.2018 on and for all large aircraft in operation from 31.12.2025 on.

OUR SOLUTION
Aware of upcoming changes in regulations and after investigating the market options, we decided to utilise Halotron BrX, which is the tradename for a stabilized extinguishing agent also known as ‘2BTP’, and now have an EN qualified and EASA certified product for use in cabins.

We are proud that our ‘UL 5B:C’ HAFEX handheld extinguisher is the smallest and lightest product known to us to have achieved the FAA MPS tests.

Our ‘UL 5B:C’ HAFEX extinguisher is designed with ease of fit and retrofit in mind. Our bracket design achieves an incredibly low profile whilst enabling the extinguisher and bracket combination to achieve all aviation test requirements. In addition, the interface connection options are such that typical existing halon units can be easily exchanged utilising the same holes.

Being aware of further needs in aviation, we have also commenced successful initial testing for additional HAFEX models including ‘2B:C’, ‘5B:C with hose’ and a ‘1A:10B:C’ HAFEX types, also utilising Halotron BrX.

With regard to additional products and solutions, we have the capability and interest in also developing a water glycol extinguisher for cabins, as well as a lavatory waste bin fire extinguisher, where we are confident we can improve on the current models available on the market.
OUR SOLUTION:
THE SMALLEST & LIGHTEST HALON-FREE 5B:C CABIN FIRE-EXTINGUISHER

FM-200 (HFC 227ea)  
FE-36 (HFC 236fa)  
FAA (2BTP)  
HALOTRON 1 (HCFC Blend B)  
Typical "old" 5B:C (Halon 1211)  
HAFEX (2BTP-"Halotron BrX")
PRODUCT DETAILS

1. Formed out of one cylindric shell for maximum pressure resistance
2. Easy retrofit bracket for multiple installation possibilities
3. Fast and intuitive to open latch-hooks
4. Adjustable straps with rotatable latch
5. Easy and intuitive one-handed operation (one control lever, no hose)
6. RFID tag, easy to scan
7. Safety pin with seal, easy to identify if broken
8. Easy to read EN-compliant pressure-gauge
9. Adjustable color coding for each country standard
WEIGHT AND DIMENSIONS

**HAFEX WEIGHT**

HAFEX including 2BTP: 2,15kg  
HAFEX including 2BTP+bracket: 2,40kg
EASY RETROFIT

TOTAL-74-20

FFE-BA21741SR-5

SICLI MAIP H1-10 AIR

KIDDE-898052

SCREW NAS1102-08·xx / NAS1102-3·xx

WASHER DAN125-4 / DAN125-5

NAS1802-03·xx

NAS1149D0332K
BRACKET

Technical specifications

+ easy retrofit due to various hole patterns and small size
+ lightweight design
+ double latching
+ single component

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WHY RETROFIT TO P3 HAFEX NOW?

+ Have retrofit and crew training completed in time before regulation change (EASA & ICAO).
+ Dispose of your old halon 1211 extinguishers via Airbus now to avoid risk of price increase and demand for discarding of old halon extinguishers.
+ Easy retrofit: The P3 HAFEX is a drop-in replacement since it uses the existing attachment points of typical old halon extinguishers on all Airbus civil aircraft types.
+ All units will be provided with an EASA Form 1.
+ Scheduled ordering and payment possible.
+ We offer you the best price on the market today!
CONTACT

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