

# Automatic & Manual Liferaft Inflator Unit

## ALIU & MLIU



Currently installed on various platforms including F-35, Gripen, AJT, Hawk and Typhoon



The Martin-Baker Automatic & Manual Liferaft Inflation System for the inflation of emergency liferafts comprises of two fully qualified MBA designed assemblies:

- ▼ 'Sealed for life' CO2 gas cylinder
- ▼ A simple, robust and low maintenance operating head ;
- ▼ Simple retro-fit;
- ▼ Value after expiry - can be used for wet drill training;
- ▼ Reduced costs with minimum labour, training, GSE and maintenance time;
- ▼ Over a 5-10-year cycle, the current equipment is over 4.5 times more labour intensive than MLIU. Therefore, the use of the MLIU substantially reduces maintenance costs.

When coupled, the inflation system can be retro-fitted as a direct replacement to most types of single seat liferafts currently in use world-wide. It offers cost effective liferaft inflation solutions, and dovetails well with the acknowledged need for sustainable procurement strategies in the modern world. Our research has indicated that maintenance costs, when using the MB system, can be reduced by around 75%.

With a 5-10-year lifecycle fit, the system is very environmentally friendly. By removing the need for recharging and/or strip down maintenance every 2 years, CO2 gas released into the atmosphere, and solvents used for cleaning are virtually eliminated.

### Maintenance

#### CO2 Cylinder

- 10-year lifecycle, then dispose (or use for wet drill)
- Visual inspection & check weight every 2 years
- No Ground Support Equipment (GSE)
- No Spare Parts
- No External Resources

#### MLIU

- 10-year maintenance cycle
- Only a visual inspection at 2 years
- 3 minor items of GSE

#### ALIU

- Inspection/Maintenance at 2 years
- 5-year maintenance cycle

At the 10 years strip down point, the MLIU portion only requires a simple pressure test and several O-ring seals replacing. Unlike the FLU-6/P or Kidde, once the life cylinder has expired it can then be used on wet drill training as a 1-shot device. Thus the carbon footprint of maintenance facilities is reduced.

**Engineering For Life**

▼ martin-baker.com



# Automatic & Manual Liferaft Inflator Unit

ALIU & MLIU



Martin-Baker Aircraft Company Limited,  
Higher Denham,  
Near Uxbridge,  
UB9 5AJ,  
UK

Telephone +44 (0) 1895 836658  
[information@martin-baker.co.uk](mailto:information@martin-baker.co.uk)

***Engineering For Life***

▼ [martin-baker.com](http://martin-baker.com)



2025 © Martin-Baker Aircraft Company Limited. The contents of this document include intellectual property of Martin-Baker Aircraft Company Limited or its affiliates (Martin-Baker). Copyright or use of any part without the express written authorisation of Martin-Baker is strictly prohibited.