



HiPPAG Cooling Systems

300 Series - infrared detector cooling



Key features

- Reduces aircrew workload with continuous supply of cooling gas throughout mission
- Minimises logistics footprint by eliminating rechargeable gas bottle for associated support equipment
- Ensures maximum seeker performance through consistent delivery of high purity air
- Combat proven technology with over three million flying hours of reliable operation
- Modular construction can be re-configured to suit particular installation requirements

Overview

Our range of integrated High Pressure Pure Air Generators (HiPPAG) provides mission-critical high-pressure pure air to cool infrared detectors used in missile seekers and thermal imagers.

HiPPAG has been installed onboard military air, sea and land borne platforms for over 25 years as a direct replacement for rechargeable gas bottles. With over 6,500 systems supplied worldwide, HiPPAG has demonstrated outstanding performance and reliability in-service on key US Navy and NATO platforms.

HiPPAG - high performance compressor and filtration

Tailored to our customers

Offered as either 'military-off-the-shelf' or as custom designed solutions to meet platform-specific requirements.

Innovative design

Each HiPPAG compressor system comprises a high pressure compressor module featuring a highly efficient brushless DC motor, a filter module with a replaceable pure-air filter cartridge and a compact electronic control unit. HiPPAG system sensors and patented closed-loop control algorithms match pressure and flow outputs to the needs of the seeker cyrostat ensuring optimum gas supply.

Features

- Operating pressure up to 414 bar (6,000 psi)
- Flow rates up to 20 SL/min (Sea Levels/STP)
- Gas purity <2ppm CO₂ and <1ppm H₂O

Programmes

Our HiPPAG can be installed on air, land or sea borne platforms, with over 10,000 supplied to date.

- Eurofighter Typhoon
- Boeing F/A-18C/D/E/F Hornet/ Super Hornet
- Boeing F-15E
- BAE Systems Hawk
- BAE Systems / Boeing AV-8B / Harrier
- Lockheed Martin F-35 Lightning II
- Lockheed Martin F-16
- Lockheed Martin F-22
- Lockheed Martin AC-130
- Saab JAS-39 Gripen
- Sepecat Jaguar
- Panavia Tornado
- Airbus Helicopters Tiger
- Bell AH-1Z Cobrat

