



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 bottles and associated support equipment.
- Ensures maximum seeker performance through consistent delivery of high purity air.
- Combat proven technology with millions of flying hours of reliable operation.
- Modular construction can be re-configured to suit particular installation requirements.

Overview

Ultra PCS' 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 platforms for over 40 years as a direct replacement for rechargeable gas bottles.

With over 18,000 systems supplied worldwide, HiPPAG® has demonstrated outstanding performance and reliability in-service on key NATO platforms.



Ultra PCS

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Cooling Systems

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 cryostat ensuring optimum gas supply.

Features

- Operating pressure up to 414 bar (6,000 psi)
- Flow rates up to 30 SL/min
- Gas purity <2ppm CO2 and <1ppm H2O

Programmes

Our HiPPAG® can be installed on air, land or sea platforms, with over 18,000 supplied to date.

- Lockheed Martin F-35 Lightning II
- Eurofighter Typhoon
- Boeing F/A-18C/D/E/F Hornet/ Super Hornet
- BAE Systems Hawk
- BAE Systems / Boeing AV-8B / Harrier
- Saab JAS-39 Gripen
- Sepecat Jaguar
- Airbus Eurocopter Tiger
- Bell AH-1Z Cobra
- IRIS-T SLM



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