High Pressure Pure Air Generator (HiPPAG)
High Pressure Compressors

Features

- Eliminates the need for gas bottles, bottle charging equipment and the associated logistics support chain
- Unlimited mission durations through continuous supply of cooling gas
- Eases aircraft forward deployment
- Yields substantial Whole Life Cost savings
- Compact and easily transported
- Proven in-service reliability

HiPPAG is range of high performance, compact pure air compressors for the following uses:

- Cryogenic cooling of thermal imaging detectors
- Cryogenic cooling of infrared missile seekers
- Supply of high pressure dry air to power pneumatic ejection release units.

HiPPAG 100, 320 & 500 modules have been used on the following Air & Land Platforms:

- Harrier
- Hornet
- Super Cobra
- Jaguar
- Hawk
- Typhoon
- Joint Strike Fighter
- Lynx
- Warrior
- Striker
HiPPAG 100

HiPPAG 100 is used for cryogenic cooling of infrared detectors in thermal imaging systems. Installed on-board the vehicle or helicopter platform, HiPPAG 100 directly replaces rechargeable gas bottles to offer major operational and logistic benefits. HiPPAG 100 is light and compact making it fully portable. Modular construction enables the unit to be reconfigured to suit a variety of applications including the HiPPAG 200 version for FLIR turret installation.

HiPPAG 100 Options include: heaters at operation at sub-zero temperature; silent watch panel; bottle changing head; and anti-vibration mounting for severe vibration.

**Specification**

- Operating Pressure: 240bar nominal
- Max. Flow Rate: 2.5 SL/min at sea level
- Steady-state Flow Rate: 0.5 SL/min typical
- Electrical Supply: 28V
- Average Peak Consumption: 10A
- Mass: 7.3 kg

HiPPAG 320

HiPPAG 320 is used for cryogenic cooling of infrared seekers in missiles such as Sidewinder, ASRAAM and IRIS-T. Installed on-board the aircraft platform, normally within the missile launcher, HiPPAG 320 directly replaces rechargeable gas bottles to offer major operational and logistic benefits. Modular construction enables the unit to be reconfigured to suit a variety of aircraft installations.

**Specification**

- Operating Pressure: 210bar nominal
- Max. Flow Rate: 7.25 SL/min at sea level
- Electrical Supply: 115V AC, 400Hz, single phase & 28V DC
- Average Peak Consumption: 350VA
- Mass: 8.6 kg

HiPPAG 500

HiPPAG 500 compressors supply high pressure dry air to charge accumulators linked to pneumatic ejection release units within weapon ejection systems. Installed on-board the aircraft platform, HiPPAG 500 eliminates the need for any one-shot devices and offers major operational and logistic benefits. Modular construction enables the unit to be installed in a wide variety of positions, including within an internal weapons bay, aircraft pylon or bomb rack.

**Specification**

- Operating Pressure: 350bar nominal
- Max. Flow Rate: 10-18SL/min at sea level
- Electrical Supply: 200V AC, 400Hz, 3-phase
- Average Peak Consumption: 600-840VA
- Mass: 6.5kg or 11.4 kg