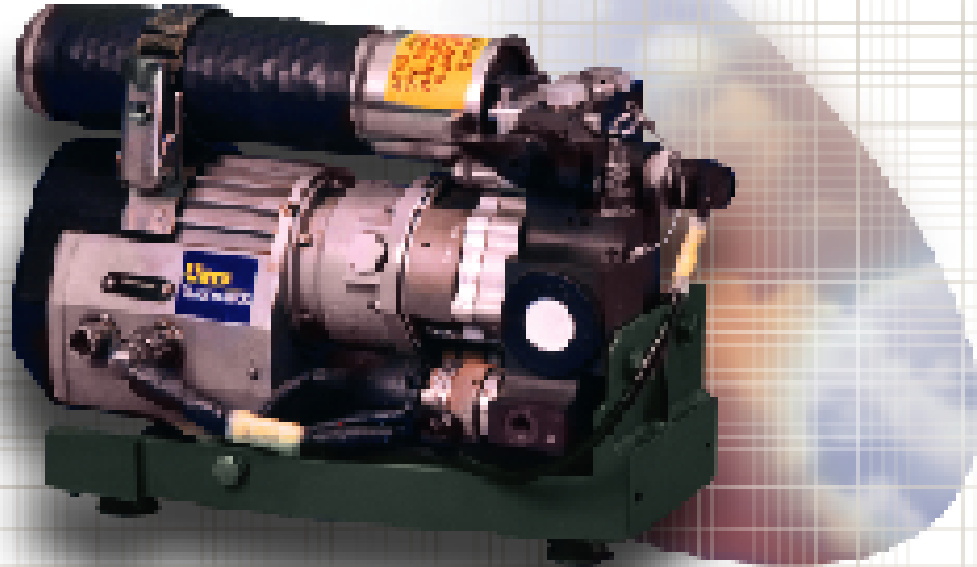


# HiPPAG 100

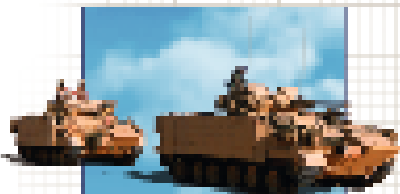
High Pressure Compressor for Thermal Imaging Systems



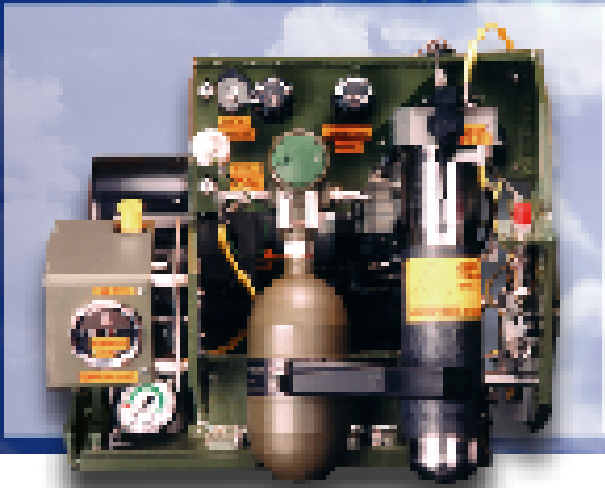
**HiPPAG 100** is a range of compact pure air compressors for the cryogenic cooling of thermal imaging detectors. Installed on-board the vehicle or aircraft platform, HiPPAG provides continuous cooling to the thermal imager and eliminates the logistics footprint associated with gas bottles. In conjunction with a silent watch panel it is suitable for covert surveillance. Modular construction allows a variety of installation options including within a FLIR turret (HiPPAG 200) and configuration as a bottle charger.



**HiPPAG 100** is in service on a wide variety of armoured fighting vehicles and helicopter platforms around the world.



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**HiPPAG 100 with Silent Watch Panel provides several hours of imager operation with no power consumption by compressor unit.**



**HiPPAG 100 configured as a bottle charger for standard 0.3 and 0.6 litre pure air gas bottles.**

## Application

HiPPAG 100 is used for the 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 logistics 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.

## Benefits

- Eliminates the need for gas bottles, bottle charging equipment and the logistics support chain
- Unlimited mission duration through continuous supply of cooling gas
- Maximises thermal imager performance and reliability through very high levels of gas purity
- Yields substantial Whole Life Cost savings
- Eases forward deployment
- Operates with low levels of noise and vibration
- Compact and easily transported

## Programmes

- British Army Warrior vehicle for the Osprey sight
- British Army Striker vehicle for Swingfire
- British Army Lynx helicopter for TITOW
- Belgium Army Augusta helicopter for HeliTOW
- Royal Navy Lynx helicopter for Sea Owl
- Korean Navy Frigate for the Fire Control System
- Phoenix RPV for FLIR Turret (HiPPAG 200)

## Typical Specification

- Operating pressure 240 bar (3500 psi) nominal
- Maximum flow rate 2.5 SL/min at sea level. Higher peak flows during cool-down
- Steady-state flow rate 0.5 SL/min typical
- Electrical supply 28V DC
- Average peak power consumption 10A
- Steady-state power consumption typically 1A
- Mass of modules 7.3 Kg (excluding AV mount)
- Minimum space envelope 325 x 150 x 210mm

## HiPPAG 100 Options

- Heaters for operation at sub-zero temperatures
- Anti-vibration mounting for severe vibration applications
- Silent watch panel
- Bottle charging head



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