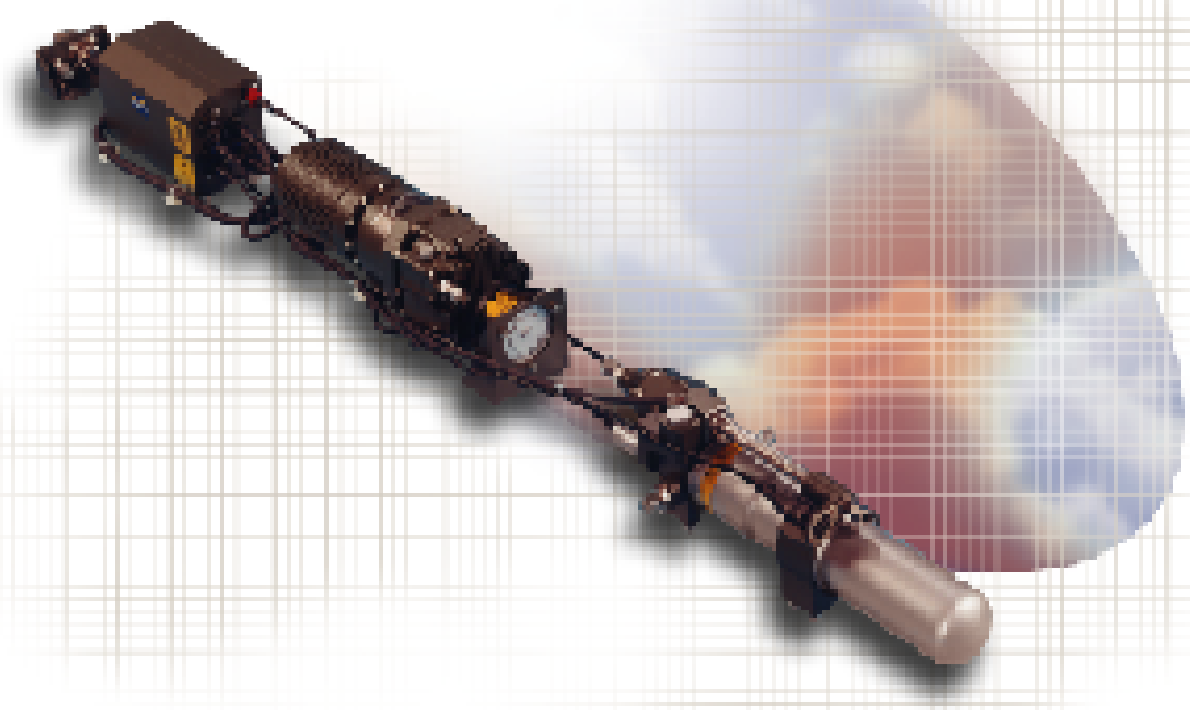
# HiPPAG 500

## High Pressure Compressor for Pneumatic Ejection Systems



**HiPPAG 500** is a range of high performance, compact compressors for the supply of high pressure dry air to power pneumatic ejection release units. Pneumatic 'cold gas' ejection systems are cleaner and more reliable than the traditional pyrotechnic cartridge based alternatives and have substantially reduced maintenance requirements

**HiPPAG 500** compressors eliminate the logistics footprint associated with rechargeable gas bottles and other one-shot devices. Precise control of operating pressures ensures optimum ejection performance at any altitude. Modular configuration permits a wide variety of installation options

**HiPPAG 500** is currently under development for Joint Strike Fighter and the Small Diameter Bomb Programme.

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HiPPAG 520 for pylon installation

HiPPAG 540 for multiple carriage system

## Application

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 logistics 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.

## Benefits

- Enables accurate and repeatable weapon separation through precise control of operating pressures
- Variable pressure control to suit different sizes of store
- Eliminates the need for any one-shot devices and their associated logistics support chain
- Yields substantial Whole Life Cost savings
- Eases aircraft forward deployment
- Reduces aircraft turn round time
- Installation flexibility

## Programmes

- Under development contract for USAF F-15E
- Under development for Joint Strike Fighter
- Under development for the Small Diameter Bomb Programme
- Successful demonstration in Smart Multiple Ejector Rack on USAF F16 wing pylon
- Successful demonstration in Smart Multiple Ejector Rack within RAAF F-111 internal bay at supersonic speeds
- Proposed for UCAV development programmes.

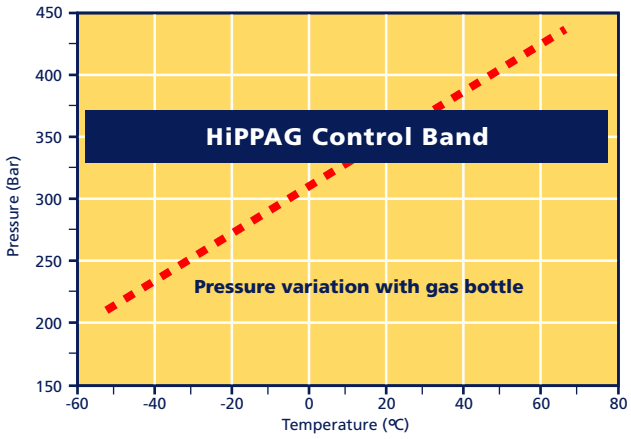
## HiPPAG 520 Typical Specification

- Operating pressure 350 bar (5100 psi)
- Maximum flow rate 10 SL/min at sea level
- Electrical supply 200V AC, 400 Hz, 3 phase
- Average peak power consumption 600VA
- Mass of modules 6.5 Kg
- Minimum space envelope 90 x 100 x 725mm

## HiPPAG 540 Typical Specification

- Operating pressure 350 bar (5100 psi)
- Maximum flow rate 18 SL/min at sea level
- Electrical supply 200V AC, 400 Hz, 3 phase
- Average peak power consumption 840VA
- Mass of modules 11.4 Kg
- Minimum space envelope 107 x 124 x 1165mm

### Pressure Variation with Temperature




**HiPPAG actively maintains accumulator pressure within a tight tolerance band for accurate control of ejection velocity**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