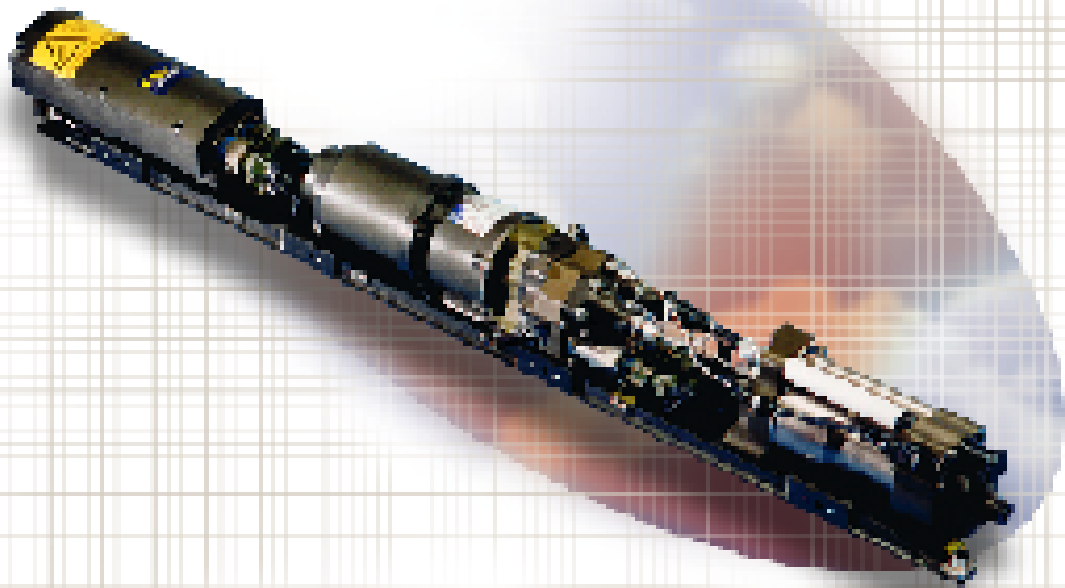


HiPPAG 320

High Pressure Compressor for Missile Seeker Cooling



HiPPAG 320 is a range of high performance, compact pure air compressors for the cryogenic cooling of infrared missile seekers. Installed on-board the aircraft platform, HiPPAG provides continuous cooling to the missile seeker and eliminates the logistics footprint associated with gas bottles. Seeker performance is maximised at all times through very high levels of gas purity. Modular construction allows a variety of installation options.

HiPPAG 320 is in service on AV-8B Harrier, F/A-18E/F Super Hornet, Harrier II Plus, AH-1W Super Cobra, Hawk and Jaguar. It is also in production for Eurofighter Typhoon.

Ultra
ELECTRONICS



HiPPAG 320 unit for the LAU-7 launcher



HiPPAG 320 installed in the LAU-7 launcher as a direct replacement for the nitrogen bottle

Application

HiPPAG 320 is used for the 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 logistics benefits. Modular construction enables the unit to be configured to suit a variety of launcher or aircraft installations.

Benefits

- Provides unlimited mission duration through continuous supply of cooling gas
- Maximises seeker performance and reliability through very high levels of gas purity
- Eliminates the need for gas bottles, bottle charging equipment and the logistics support chain
- Yields substantial Whole Life Cost savings
- Eases aircraft forward deployment
- Reduces aircraft turn round time
- Improves ground handling safety
- Proven in-service reliability

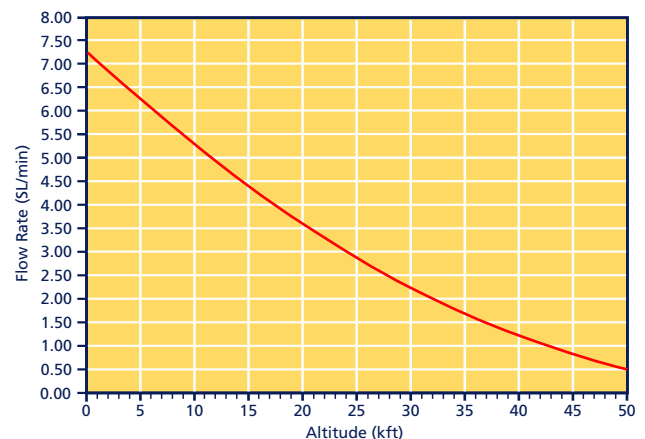
Programmes

- In service on the USMC AV-8B Harrier and AH-1W Super Cobra
- In service on Italian Navy Harrier II Plus
- In service on US Navy F/A-18E/F Super Hornet
- In service on RAF Oman Jaguar and Hawk
- In production for Eurofighter Typhoon
- Produced for the Common Rail Launcher
- Under contract for Long Range Trigat on Eurocopter

Typical Specification

- Operating pressure 210 bar (3050 psi)
- Maximum flow rate 7.25 SL/min at sea level. Higher peak flows during cool-down
- Steady-state flow rate at altitude - see graph
- Electrical supply 115V AC, 400 Hz, single phase. Plus 28V DC signal
- Average peak power consumption 350VA depending on pressure and flow requirements
- Steady-state power consumption typically 75 to 200 VA
- Mass of modules 8.6 Kg (excluding mounting tray)
- Minimum space envelope for in-line configuration 970 x 90 x 100mm

HiPPAG 320 Maximum Flow Vs Altitude



Ultra Electronics Limited

PRECISION AIR SYSTEMS
Anson Business park,
Cheltenham Road East,
Gloucester GL2 9QN
England
Tel: +44 (0) 1452 714382
Fax: +44 (0) 1452 715252
Email: marketing@uepas.com
Web: www.hippag.com

Ultra Electronics Services Inc.

PRECISION AIR SYSTEMS
5751 General Washington Drive
Alexandria
VA 22312
USA
Tel: 703 914 8881
Fax: 703 914 8885
Email: marketingusa@hippag.com
Web: www.hippag.com

The information shown in this brochure is given in good faith and is intended for guidance only. It should not be used for specifications and no warranty is given or is implied with respect to such information.

© Ultra Electronics Limited 2002
1 02/MM/1000