

Gas Conditioning System

The Pall Aerospace Gas Conditioning system consists of one or more immobilised canisters which are specifically designed for the purification of gases by adsorption.

Customised manufacture permits removal of chemical warfare agents, water vapour, carbon dioxide, nitrogen or oxygen. This flexibility covers requirements from the

provision of breathing gas for pilots to high pressure gas for infra-red sensor cooling on missile guidance systems.

These immobilised canisters are suitable for use in a wide range of air, land and sea environments.



Design Features

- Vibration Performance
- Fluidisation
- Service Life
- Logistic Support
- Reduction in operational costs
- Removal of all chemical warfare agent vapours

Bed immobilisation provides superior resistance to vibration damage

Immobilisation will allow much higher than usual fluid velocities, thereby reducing attrition caused by fluidisation.

Strict design and manufacturing processes maximises service life

Elimination of gas bottle support equipment and independence from ground support facilities

Life cycle cost savings. No planned maintenance

Applications

- Pressure Swing Adsorption plus Temperature Systems (PSA+T)
- On-board Oxygen Generating Systems (OBOGS)
- High Pressure Pure Air Generator Systems (HIPAGS)
- On-board Inert Gas Generation Systems (OBIGGS)
- Contamination removal units

Immobilised canisters form an integral part of systems for nuclear, biological and chemical protection.

For the provision of breathing gas to military aircrew.

Provides a source of high pressure pure air. This low temperature (cryogenic) air is used for infra-red cooling

Reduced fire risk with inert gas blanketing the hazardous area.

Used in nuclear submarines for the removal of dangerous and toxic gases.

Pall Aerospace immobilised canisters are used on the following major programmes :-

- EFA OBOGS
- Hawk OBOGS
- Nimrod OBOGS
- F22 OBOGS
- HIPAGS (Various)
- Development CRU for 'Swiftsure' and 'Trafalgar' Class submarines

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