

- **Provides air free of gaseous contaminants**

Ensures your computer equipment operates within a corrosive free environment, and within the guidelines of major computer and instrument manufacturers warranties.

- **Self-contained pressurisation system**

Provides both particulate and gaseous filtration of supply air for positive pressurisation of the controlled space.

- **Targets specific gases**

Multiple banks of media allow the system to be configured to handle the contaminant gases present in your environment.

- **System design flexibility**

Four different sizes of unit permit design flexibility to meet your particular need.

- **Local service**

In New Zealand trained personnel offer a comprehensive advice and support program including environmental corrosion and media life analysis testing.



Air Care Technology Ltd continuously strives to improve the design and quality of our products, and we reserve the right to change or discontinue any product at our discretion without notice or obligation.

Applications:

The **Gas-Phase Filtration Unit (GPFU)** is a self-contained, air cleaning system, designed to provide clean air, free of corrosive gases, into controlled environments containing sensitive computer electronics and electrical equipment. The **GPFU** can be configured as a pressurisation unit, a recirculation unit. Or as a combined pressurisation / recirculation unit where air flows and space do not warrant two units.

Key application areas for the **GPFU** are computer rooms, control rooms, motor control centres, electrical equipment rooms and sub-stations in industrial or geo-thermal environments. Examples include pulp & paper mills, petrochemical plants, refineries, fertiliser plants and laboratories, and other process industries where corrosive gases are a problem.

System Advantages:

Provides air free of gaseous contaminants:-

The **GPFU** supplies air stripped of corrosive gases into a controlled environment. The level of air cleanliness meets or exceeds established industry standards, such as the Instrument Society of America's ISA-S71.04-1985. This standard conforms with the warranty requirements of most computer and instrument manufacturers.

Self Contained System:-

The **GPFU** is an in-room cabinet containing blower, particulate (to F7), and gaseous filtration. It is also fitted with gauges and an adjustable damper. The **GPFU** is designed to work in tandem with standard packaged air handling equipment.

Targets Specific Gases:-

The **GPFU** is configured with two separate banks of media. This allows a user to choose different filtration media to suit the targeted contaminant gases.

Pressurisation, Recirculation or Both:-

The **GPFU-P** (pressurisation option) is designed to supply controlled, scrubbed, outside air to the space and maintain continuous positive pressure within the space. Up to 50% of the **GPFU-P**'s air handling capacity can be dedicated to introducing outside pressurised air, whilst the other 50% or greater can be used for recirculation.

The **GPFU-R** (recirculation option) is designed to recirculate room air through the adsorption media to remove contaminants.

System Design Flexibility:-

The **GPFU** is available in 4 configurations ranging from 425 m³/hr (118 L/s) up to 6750 m³/hr (1875 L/s). The flexibility of the **GPFU** system design allows for a solution to be tailored to meet your particular air filtration needs and requirements.

Common Contaminant Gases:

The **GPFU** is effective in controlling hundreds of common contaminant gases including:

- Acetic acid
- Ammonia
- Chlorine compounds
- Heavy hydrocarbons
- Acrylonitrile
- Hydrogen sulphide
- Oxides of nitrogen
- Sulphur dioxide
- Hydrogen chloride
- Methyl mercaptan

Standard Features:

- Full charge of media
- Blower
- Integral balancing damper
- Particulate filtration to EN779-F7
- Manometers
- High quality powder coat finish

Optional Features:

- Aluminium or stainless steel housing
- Special fans or motors
- Reverse flow units
- Optional air openings to match other equipment
- Additional sound deadening for occupied spaces. (Papworth Engineering **GPFU**'s are already soundproofed).
- Waterproofing - horizontal unit only.



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Related Products:

AirCare Iron Oxide Media E54106
Circul-air Gas Adsorption Media E54154
PAPWORTH ENGINEERING MM Multi-Mix E54158

Data Sheets: