

PRODUCT BULLETIN 4 THE PURAFIL POSITIVE PRESSURIZATION UNIT




THE PURAFIL POSITIVE PRESSURIZATION UNIT (PPU) is a self-contained, air cleaning system, designed to provide pressurization air, free of corrosive gases. The PPU is recommended for controlled environments containing sensitive computer electronics and electrical equipment. Designed to stand alone, it can also be used in conjunction with Purafil's Corrosive-Air System when recirculation is also required. Key application areas for the PPU are computer rooms, control rooms, motor control centers, and electrical equipment rooms in industrial environments, such as pulp and paper mills, petrochemical plants, refineries, steel mills, laboratories, and other process industries.



PURAFIL POSITIVE PRESSURIZATION UNIT IN ROLL GRIND ROOM

SYSTEM ADVANTAGES:

CONTAMINANT-FREE AIR: Purafil's Positive Pressurization Unit supplies pressurization air, free of contaminant gases, to a controlled environment. The level of air cleanliness meets or exceeds established industry standards, such as the Instrumentation, Systems and Automation Society's ISA-S71.04-1985. This standard conforms with the warranty requirements of most computer and instrument manufacturers.

SELF CONTAINED PRESSURIZATION SYSTEM: The PPU is designed to maintain continuous positive pressure within the space. Up to 50% of the PPU's air handling capacity can be dedicated to introducing outside pressurization air, while the other 50% or greater can be used for recirculation. The PPU is an in-room housing containing a blower, particulate and gaseous filtration, an air measuring station, gage units, and a field adjustable damper. The PPU is designed to work in tandem with standard packaged air handling equipment.

TARGETS SPECIFIC GASES: The PPU is configured with two separate passes of chemical filtration media. This allows a user to choose the media whose performance characteristics are particularly suited for targeted contaminant gases. Purafil manufactures a full line of media, each of which are uniquely effective against specific gases.

SYSTEM DESIGN FLEXIBILITY: The PPU is available in four horizontal and four vertical configurations, ranging from 500 CFM up to 4,000 CFM. The flexibility of the PPU system design allows for a solution to be tailored to

meet your particular air filtration needs and requirements.

LOCAL SERVICE: Purafil's factory trained, local representatives offer convenient and timely service. Purafil's representatives are professionals who can provide in-depth technical assistance and a comprehensive service program. Additionally, Purafil's laboratory conducts media life analysis testing and environmental corrosion classification testing.

STANDARD FEATURES:

- Painted 14 gauge cold rolled steel construction
- Full charge of granular media or PuraGRID® filters manufactured by Purafil
- Direct Drive Fan
- Variable Frequency Drive
- Integral balancing damper
- 0.2 IWG external static (saturated filters)
- Particulate filter

OPTIONAL FEATURES:

- Aluminum or stainless steel housing
- Special motors
- Reverse airflow in vertical units (upward)
- Optional air openings to match other equipment
- Floor casters (vertical unit only)
- Additional sound insulation for occupied spaces
- Weatherproofing (horizontal unit only)
- Additional external static
- Gage units measuring room pressure, outside air, and particulate pressure