purify, protect & preserve by

RU PRODUCT BROCHURE RECIRCULATION UNIT

THE BION RECIRCULATION UNIT is designed to protect and electrical or medical equipment from harmful corrosive gases. It is installed inside the controlled space by means of recirculation only. It is perfect for spaces generated contaminants.

MAIN APPLICATIONS

- **Electrical and Medical Equipment Rooms**

- Hospitals/IVF Centers

TARGETED GASES

- Hydrogen Sulfide
- Nitrogen Oxides

CONSTRUCTION

The RU's are constructed of aluminum modular framing models range from 1 to 4ft [305 to 1.219mm] wide nominal by 2 to 4ft [610 to 1.219mm] deep nominal in order to meet multiple airflows and space restrictions.

At the center of BION's RU is BION engineered, drychemical air filtration media - filled within universal PP12 modules. A wide variety of media types are available, corrosive gases. BION is happy to assist in selecting the most efficient media prescription to meet your particular

KEY CHARACTERISTICS

- Easily replaceable media modules, prefilters and final
- Standard and customizable options available, including a broad range of materials/finishes, media types, and pre and final filter options in order to target a wide array of particulate and contaminant challenges.
- thermal insulation as well as a light and compact
- Gasketed doors for an airtight seal.
- Aluminum extruded track with integral pile seal ensures easy installation of both filters and modules, as well as

BION SUPPORT

BION offers numerous services including unit sizing and testing as well as environmental corrosion classification testing.

RU PRODUCT BROCHURE RECIRCULATION UNIT



STANDARD RU MODELS	RU-102	RU-202	RU-402	RU-404
TOTAL AIRFLOW	500 CFM	1000 CFM	2000 CFM	4000 CFM
	850 m³/h	1700 m³/h	3400 m³/h	6800 m³/h
RECIRCULTION AIRFLOW	500 CFM	1000 CFM	2000 CFM	4000 CFM
	850 m³/h	1700 m³/h	3400 m³/h	6800 m³/h
PRESSURIZATION	0 CFM	0 CFM	0 CFM	0 CFM
AIRFLOW	0 m³/h	0 m³/h	0 m³/h	0 m³/h
UNIT DIMENSIONS	2 x 2 ft	2 x 2 ft	4 x 2 ft	4 x 4 ft
NOMINAL (WxD)	610 x 610 mm	610 x 610 mm	1220 x 610 mm	1220 x 1220 mm
NO. OF PP-12 MODULES PER PASS	2	4	8	16
VOLTAGE/PHASE/FREQ	460/3/60 [USA]	460/3/60 [USA]	460/3/60 [USA]	460/3/60 [USA]
	380/3/50 [EU]	380/3/50 [EU]	380/3/50 [EU]	380/3/50 [EU]
MOTOR RATING	1 HP [USA]	1 HP [USA]	2 HP [USA]	5 HP [USA]
	2,5 kW [EU]	2,5 kW [EU]	3 kW [EU]	3,9 kW [EU]

STANDARD FEATURES

- Aluminum modular framing
- 304 Stainless steel double wall panels/doors
- Gasketed doors
- Aluminum skid with mounting holes
- 1" [25mm] prefilter (Merv 8 [USA] or G4 [EU])
- Two media passes (PP12 modules) with project specific BION chemical filtration media
- Centrifugal plenum blower with TEFC [USA] or IP55 [EU] motor
- VFD [USA/EU] or flowset [EU] within blower section
- 4" [98mm] final filter (Merv 13 [USA] or F7 [EU])
- Magnehelic differential pressure gauges across the pre and final filter stages

OPTIONAL FEATURES

- Additional double wall panel/door materials = aluminum, 316 stainless steel, and galvanized
- Explosion proof [USA] or ATEX [EU] motor
- Weatherproofing
- Painted panels/doors