

KEY HIGHLIGHTS

- Eliminate odors, dust, gases, bacteria, pollen, smoke and a host of other contaminants from treated air spaces
- Help meet code requirements for acceptable indoor air quality.
- Save energy by reducing outside air
- Save on cleaning and day-to-day maintenance

The Power Generator(s) are not weather-proof or waterproof. They must be inside the building or inside a host plenum.

Construction is of galvanized steel (18 gauge minimum).



The plenums are single wall and are not insulated, weatherproof or waterproof. They must be inside the building or inside a host plenum.

STANDARD PLENUM SYSTEMS

Standard plenum systems are modular package versions of the CosaTron® patented Series 1000 system. These self-contained, packaged versions of the custom series 1000 units are designed to adapt to standard air-handling units up to 40 tons, either as retrofits or during initial construction. The Series 2000 systems provide the ideal answer for installations such as: Clean Rooms, Social Halls, Casino High-Roller Rooms Conference and Meeting Rooms, Lounges and Cafeterias, Medical Labs, Offices and Waiting Rooms, Residences and more.

HOW THE SERIES 2000 WORKS

Like all CosaTron products, the CosaTron Series 2000 is a contaminant control system that provides cleaned re-circulated air where needed. Series 2000 systems control the build-up of offensive odors, dust, gases, pollen, bacteria, smoke other contaminants generated by activity in an area or infiltration from other areas.

Submicron contaminants, such as odor and dust— too small to be captured by the normal filters in an air-handling system – make up about 98% of indoor contaminants. These contaminants remain in the area, clinging to ceilings,

walls, clothing, office equipment, desks, draperies, carpets, sensitive electronic equipment and people. CosaTron increases the natural coagulation of particulate matter. Larger particles are then picked up in and returned in the air current to the HVAC system and are captured by the filters. CosaTron is not a collector; instead the unique solid state technology increases the efficiency of your filters. Unlike other systems, CosaTron does not ionize the air and turn your building's occupants into walking air filters. The CosaTron does not use ozone injection, a practice scorned by the EPA.

SERIES 2000 MODELS

- 2120** The Model 2120 is a low profile version (either 16" or 20" high and up to 60" wide) for installation above most lay-in ceilings. It installs easily with your air-handling unit, fan terminal unit, heat pump, small cabinet fan, fan coil unit, or in the ductwork. The CosaTron Model 2120 is delivered complete with HV and HF indicator lamps, circuit breaker and ON/OFF switch.
- 2220** The Model 2220 is available in standard plenum sizes of 24", 36", or 48" high through 96" wide. It installs easily with your air handling unit, cabinet fan or in the ductwork. The CosaTron Model 2220 is delivered complete with HV and HF indicator lamps, circuit breaker and ON/OFF switch. The Model 2220 is designed to seamlessly integrate with Model 1400 and 1450 Filter Plenums, or with filter plenum sections manufactured by filter companies.



650 POWER GENERATOR

The Model CU-650 solid state Power Generator provides the high-voltage (HV) direct current (DC) and high-frequency (HF) alternating current (AC) to the grid assembly in the air-handling plenum.

One generator is designed to provide sufficient HV and HF output to handle air through a plenum with a cross-sectional area of B ft" (0.7m") to 96 ft" (8.9m"). When this cross-section area exceeds 96 ft" (8.9m"), a second power generator will be required.

When grid sets are installed in separate plenums, one generator will be required for each grid assembly in each plenum. The power generator is normally mounted on the outside of the plenum wall and must be within 9' (2.75m) wire length of the grid assemblies. The generators

can also be mounted inside the plenum on rooftop units to protect them from the elements. (The power generator enclosure is not weatherproof or waterproof).

The CU-650 Power Generator is equipped with an input power "ON/OFF" switch. This interrupts the input power when access is required to the plenum section housing the grids. The generator is pre-wired at the factory for the input line voltage required. A label on the input power compartment indicates the preset input voltage. A High Voltage bleed resistor kit is included.

Indicator lamps on the face of the cabinet are provided that indicate the "ON/Off" condition of the HV and HF power output. A circuit breaker in the incoming power circuit is also provided.



SAFETY DOOR SWITCH

The safety door switch is an essential part of all CosaTron products and is designed for safe operation of the system.

One safety door switch assembly is located inside each plenum access door or filter rack door and is wired into the line voltage circuit using No. 14 or larger wire to interrupt input power to the power generator when any access door is opened. Any plenum access or filter rack door within the immediate vicinity of the grids must be similarly equipped. When CosaTron

supplies packaged plenum type units, they will be equipped with safety door switch(es) and activating mechanism as standard. Optional switches are available for CosaTron units being mounted within existing plenums.

In normal installations, the safety door switch assembly is mounted inside, to the top of the plenum as shown. When this is impractical, an optional mounting bracket is provided to allow mounting the assembly to the side of the plenum. In such an installation, the special "plunger" must also be installed on the corresponding side of the access door.

OPTIONAL ACCESSORIES

- Remote Indicator Lamp Unit
- Remote Coupler Unit
- Grid Sensor Unit
- Safety Door Switch Assembly
- Bleed Resistor
- Magnehelic Differential Pressure Gage
- Differential Pressure Switch

CosaTron is represented by:

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