

# F-Series

## Caustic Fumes/Gaseous Applications

Battery charging produces hydrogen and sulfuric acid gases. Consequently, many health and safety regulations require that battery charging be performed in a specially designated area where personnel, electrical equipment, and open flames are a safe distance away. Alternatively, an expensive investment in gas exhaust systems can be used. Air Sentry® Gas Neutralization System (GNS) Breathers provide an economical and simple solution to this problem.

GNS Breathers are easy to install using valves attached to the battery vents and plastic tubing which conduct the exhaust gases to the GNS mounting point, located either on or off the equipment. This flexibility allows the charging to take place at the work site or in an enclosed work area.

Air Sentry® GNS Breathers were designed in cooperation with a major international airline/air cargo company for use on ground support equipment and to reduce the health and safety risks associated with battery charging.



### Typical applications include:

- AIRPORT BOARDING BRIDGES
- HYDRAULIC RESERVOIRS
- FORKLIFTS
- MARINE VEHICLES
- BAGGAGE HAULERS

## Sizing Information

Model	Height in. (cm)	Diameter in. (cm)	Mounting Connection	Weight lbs. (kg)	Water Capacity fl.oz (mL)	Maximum Air Flow cfm	Maximum Reservoir Fluid Flow gpm	Type Of Medium
F-302	9.25 (23.5)	5 (12.7)	1inch slip fit	3.4 (1.5)	10.3 (305)	5	38	33% Activated Carbon 67% Silica Gel
F-309	17.25 (43.8)	5 (12.7)	1inch slip fit	7.1 (3.22)	22.3 (659)	5	38	33% Activated Carbon 67% Silica Gel

## CASE STUDY

A major international airline/air cargo company used Air Sentry® GNS (Gas neutralization System) breathers on their ground support equipment. By attaching the battery vents and plastic tubing, which conduct the exhausted gases, the breathers were able to capture caustic fumes and reduce the health and safety risks associated during this process. Additional benefits from using Air Sentry® breathers include filtration of solid particles down to 2 microns and adsorption of moisture. These features keep contamination from entering fluid handling reservoirs on boarding bridge hydraulic systems, baggage haulers, forklifts, fueling trucks and fuel tanks.

