



Laboratory Testing Services

M.I.C. Water Testing (Microbiological Induced Corrosion)

System Type	Stock No.	System Volume
MICBlast 20	FPS-20	0-250 Gallon's
MICBlast 50	FPS-20	251 to 750 Gallon's
MICBlast 125	FPS-20	1,750 Gallon's
MICBlast 200	FPS-20	3,000 Gallon's
MICBlast 400	FPS-20	6,000 Gallon's
MICBlast 2000	FPS-20	12,000 Gallon's
MICBlast 3000	FPS-20	18,000 Gallon's

General Description

The MICBlast is designed to supply low pressure , supervisory Nitrogen, a clean, dry, no-flammable, inert gas to preaction and dry fire sprinkler systems. Traditionally compressed air is used as a supervisory gas for such systems. However, the constant availability of oxygen in the compressed air supports and promotes corrosion of the steel and galvanized piping. **Microbiological Influenced Corrosion (MIC)** has also been identified as a real threat for the integrity of these types of fire protection systems.

Benefits of a Nitrogen Generator:

- Cost effective continous supply of Nitrogen to the FPS.
- "The Green Solution to Inhibiting Corrosion"
- Eliminates the need to change-out Nitrogen gas cylinders, the liability of handling gas cylinders(high pressure), and the inconvenience of changing out the gas cylinders.
- Eliminates the risk of de-pressurization of the FPS due to untimely Nitrogen gas cylinder run-outs.
- Requires only compressed air supply to produce high-purity Nitrogen (FPS-125 and larger).
- FPS-20 and 50 have integrated built in air compressor.
- No need for desiccant or regenerative dryers when membrane Nitrogen generators are employed.
- Nitrogen is not a chemical additive and poses no possible chemical hazard
- The inert nature of Nitrogen prevents the oxidation and aging of polymeric gaskets, seals and O-rings, within the FPS, thereby prolonging their service life

How Nitrogen Inhibits Corrosion in a FPS?

- Nitrogen is an inert gas , which does not support the corrosion reaction, (the oxygen and moisture in compressed air does actively promote corrosion).
- The Nitrogen effectively displaces all oxygen from the systems and stops the corrosion reaction by eliminating the cathodic oxygen reaction.



- The dew point of 95% Nitrogen is approximately -40°F which enables it to absorb all moisture. Cyclic venting of Nitrogen will, over time, completely remove any residual moisture from the system thereby completely arrest the electro-chemical chemical reaction process.
- Inert nature of Nitrogen eliminates oxidation of non-metallic components of the FPS.
- Absence of water will completely eliminate the potential threat of Microbiological Induced Corrosion.
- Prevent the formation of ice blockages in freezer FPS systems.

How Does The MicBlast Work?

MicBlast is a patent Pending compact system that generates and introduces high purity, corrosion inhibiting, Nitrogen (N₂) into your dry or pre-action Fire Protection Systems (FPS). The MicBlast can be integrated with or replace your existing supervisory air compressor. It uses minimal space, runs quiet, and can be installed within your fire pump or riser room. The MicBlast generates high purity N₂ at the same rate as a high pressure N₂ Cylinder, therefore making it a safe, more convenient, cost effective solution to inhibit corrosion.



Call Huguenot Laboratories for pricing (800) 228-3793