

AG-18500/22500

ECS AdvancedIQ Nitrogen Generator



Features

ECS AdvancedIQ Nitrogen Generator (U.S. Patents 8,720,591, 9,144,700 and 9,186,533)

- Interactive LCD touchscreen display
- Bypass alarm indication with sleep mode
- Programmable audible alarm
- Optional remote monitoring and email alerts

Up to 22,500 gallons of total sprinkler system capacity

Easy installation and setup

No nitrogen storage tank



General Description

The ECS AdvancedIQ Stand Alone Nitrogen Generator is designed to facilitate the Dry Pipe Nitrogen Inerting (DPNI) process for controlling oxygen corrosion in dry pipe and preaction fire sprinkler systems. The nitrogen generator utilizes membrane separation technology that produces 98%+ nitrogen gas. The nitrogen generator can be used in cold storage/freezer applications due to the added benefit of ice plug mitigation. Cold storage application requirements vary based on the temperature of refrigerated space, contact ECS for design assistance.

The AdvancedIQ HMI display screen allows for easy operation and complete control of the nitrogen generator as well as the ability to communicate with the nitrogen generator from anywhere in the world. Access to nitrogen generator operation, maintenance, diagnostics and stored historical data is easily obtained through the HMI screen on the nitrogen generator or remotely through the internet.

The nitrogen generator supplies single or multiple sprinkler systems depending on the number of systems, the volume of the largest system, and the cumulative volume of all systems being supplied. The generator includes an external bypass valve for maintenance or “fast fill” needs to meet the NFPA 13 30-minute fill requirement.

The nitrogen generator is designed to inert the supervised sprinkler systems within 14 days and then automatically provide nitrogen gas for pressure maintenance. When paired with either the Standard Vent (PAV-D/DQ) or the SMART Vent (PSV-D/DE) installed on the sprinkler riser, the nitrogen generator facilitates our patented “fill and purge” breathing process to remove all the corrosive oxygen gas in the sprinkler systems without the need for a nitrogen storage tank.

Maintenance

Nitrogen generators require limited maintenance; however, it is advisable to routinely check the generator to ensure functionality. Improper maintenance can potentially damage/shorten the service life of the nitrogen generator and/or air compressor. See owner’s manual for required maintenance procedures.

Specifications

Cabinet Dimensions	24.5" (W) x 76" (H) x 12.5" (D)
Weight	300 Lbs
Power Supply Available In (dedicated circuit)	120-240VAC/1 phase/50-60Hz
Power Consumption	1 Amp (cabinet only)
Nitrogen/Air Connection	½" NPT Female
Drain Connection	¼" NPT Female
Temperature Range	40°F - 105°F (5°C - 40°C)
Replacement Filters	FKSA-FS (annual maintenance)

Operating Performance

Model Number	AG-18500	AG-22500
Total System Capacity Gallons (Liters)	18,500 (70,030)	22,500 (85,172)
Single System Capacity† @ 40 psig (2.8 bar) Gallons (Liters)	2,025 (7,666) ^{††}	2,900 (10,978) ^{††}
Single System Capacity† @ 20 psig (1.4 bar) Gallons (Liters)	4,050 (15,331) ^{††}	5,800 (21,955) ^{††}

† Capacity based on NFPA 13 30-minute fill requirement of largest single system
 †† Capacity based on using 7.5hp air compressor provided by ECS

Installation

The ECS Nitrogen Generator is designed to be mounted directly to the floor and/or to the wall at the installation location. Allow access to the front of the cabinet for service and place the unit in a location that is located near fire sprinkler system connections, a drain, and a dedicated electrical connection. Allow for clearance around vents on side and bottom for proper cabinet ventilation. For detailed installation and operation please refer to the ECS AdvancedIQ Nitrogen Generator Manual.

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Cabinet Dimensions

