AMD

ECS APPROVED FIRE SPRINKLER
AIR MAINTENANCE DEVICES

Engineered Corrosion Solutions

(Provided by Others)

Victaulic - Series 757

The Victaulic Series 757 FireLock Air Maintenance Trim Package is designed to control the system air pressure for dry sprinkler applications. The Victaulic® Air Maintenance Trim Assembly should be used with a reliable source of continuous nitrogen equipped with an attached pressure control switch. The high pressure of the supply air is reduced by the integral adjustable regulator in the Air Maintenance Trim Assembly to the recommended air pressure based on the water supply pressure.

Reliable - Model A

The Reliable Model A - Pressure Maintenance Device (PMD) is designed for use with a source of nitrogen. The regulator in the Model A PMD reduces higher pressure nitrogen to a level required by a dry pipe valve, dry pilot line, or a deluge valve based preaction system. The Model A PMD will maintain a constant pressure in the system regardless of any pressure fluctuations from the nitrogen source.

Tyco - Model AMD-1

The TYCO Model AMD-1 Automatic Air Maintenance Device is an automatic, field-adjustable, pressure reducing device. It is used to control the pressure in a dry pipe sprinkler system, pre-action system, or dry pilot line system of a dry pilot actuated deluge or preaction valve.

The Model AMD-1 Device is utilized in applications where there is a nitrogen source controlled at a higher pressure than the desired system pressure.

PGEN-3 or PGEN-5 Nitrogen Generator with a Single Dry Pipe or Pre-Action System

When a PGEN-3 or PGEN-5 Nitrogen Generator is used with a single dry pipe or pre-action system an AMD is not required or needed. The PGEN-3 or PGEN-5 will control the system nitrogen pressure.

NFPA 13 - Standard for the Installation of Sprinker Systems
Section 8.2.6.6.2 (2019), Section 7.2.6.6.2 (2013 & 2016), Section 7.2.6.5.2 (2010)

Where the air compressor supplying the dry pipe system has a capacity less than 5.5 ft^3/min (160L/min) at 10 psi (0.7 bar), an air receiver or air maintenance device shall not be required.

PGEN-3 and PGEN-5 Nitrogen Generators Meet This Requirement

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OUR PRODUCTS. YOUR SYSTEMS.

Solutions for every environment

DRY PIPE SYSTEMS

Corrosion control technology located in the riser room.

WET PIPE SYSTEMS

Automatic air venting and nitrogen corrosion control.

MONITORING SOLUTIONS

Ensure effective corrosion control with real time corrosion monitoring solutions.

SERVICES

Corrosion assessments, pipe analysis, and long term corrosion control programs to mitigate future risk.

Dry Pipe System Nitrogen Generators

Corrosion control technology located in the riser room

	WALL MOUNT			SKID MOUNT	STAND ALONE W/ SEPARATE AIR COMPRESSOR			
	PGEN-3	PGEN-5	PGEN-10	PGEN-20	PGEN-30	PGEN-40	PGEN-50	PGEN-60
Total System Capacity	675 gal	950 gal	2,000 gal	3,200 gal	6,500 gal	11,000 gal	18,500 gal	22,500 gal
Single System Capacity @ 40 psi(1)	215 gal	265 gal	560 gal	950 gal	1,150 gal	1,440 gal	2,025 gal	2,900 gal
Single System Capacity @ 20 psi(1)	540 gal	590 gal	1,120 gal	1,800 gal	2,300 gal	2,880 gal	4,050 gal	5,800 gal
Air Compressor	Integral	Integral	Integral	Integral	Separate	Separate	Separate	Separate
Size (H x W x D)	36x24x9	36x24x9	38x29x11	57x32x40	53x24x9(2)	53x24x9(2)	76x24x12(2)	76x24x12(2)
Weight	115 lbs	125 lbs	175 lbs	420 lbs	152 lbs(2)	152 lbs(2)	300 lbs(2)	300 lbs(2)

NOTES:

(1) Single system capacity based on 30 min. fill requirement of largest single sprinkler system; a secondary air compressor with normally closed isolation valve can be used to meet fill requirement for larger individual systems

(2) Size and weight of nitrogen generator only, does not include separate air compressor

(3) All nitrogen generators include one (1) year manufacturer's warranty per ECS terms and conditions