



# Potter Nitrogen Generators



## Description

The Potter Nitrogen Generator, NGP Series, is specifically designed to provide on-site, high purity nitrogen for use in fire protection sprinkler systems. When used as a supervisory gas in fire sprinkler systems, nitrogen slows corrosion, improves the life of your system, and lowers maintenance costs.

Integrated models are fully assembled packages ready to be connected to a new or existing fire sprinkler system as a turn-key solution. The modular models include a tank mounted air compressor, nitrogen cabinet, and a nitrogen storage tank. All models include necessary air filtration equipment, an air compressor, nitrogen membrane, as well as tanks required to keep the generator operating at peak efficiency. Potter Nitrogen Generator Systems provide a low cost, reliable, and efficient method of producing a minimum of 98% nitrogen at the point of usage. The series utilize nitrogen membrane technology for gas separation. Nitrogen membranes are highly effective and a cost conscious way of producing on-site nitrogen. Acting as a filter, the smaller oxygen and water vapor molecules can pass through the membrane quickly. The larger nitrogen molecules are less likely to diffuse through the separator tubes; therefore, they continue downstream to the separator outlet, through the air maintenance device and into the fire protection system. As the system fills with nitrogen, the remaining oxygen molecules in the fire protection system are exhausted by using the Potter IntelliPurge® Nitrogen Purge Valve. The Potter IntelliPurge® Nitrogen Purge Valve will periodically monitor the fire protection system to ensure high purity nitrogen is consistent throughout the sprinkler system.

## Model Specifications

Model Number	Max. Total System Capacity* (gal)	Largest Riser* (gal)	Compressor HP	Compressor Type	Electrical Requirements	Air Tank Size (gal)	N2 Tank Size (gal)
NGP-300D	500	300	3/4	Oil-less	7.4A @ 115 Volts 1 PH 3.5A @ 208 Volts 1 PH 3.7A @ 230 Volts 1 PH	20	20
NGP-500D	1,200	500	1	Oil-Less	18A @ 115 Volts 1 PH 7.7A @ 208 Volts 1 PH 9A @ 230 Volts 1 PH 4.5A @ 230V 3PH 2.2A @ 460V 3 PH	20	30
NGP-1000D-M1	1,200	1,000	2	Oil-Less	11.6A @ 208 Volts 1 PH 11A @ 230 Volts 1 PH 9.2A @ 208 Volts 3 PH 9.2A @ 230 Volts 3 PH 4.6A @ 460 Volts 3 PH	30	30
NGP-1000D-M2	3,000						
NGP-1000D-M3	5,000						
NGP-2200D-M2	3,000	2200	7.5	Lubricated	13.3A @ 208 Volts 3 PH 12.4A @ 230 Volts 3 PH 6.2A @ 460 Volts 3 PH	80	30
NGP-2200D-M3	5,000						80
NGP-2200D-M4	9,500						80
NGP-2200D-M5	16,000						80

\* at 40 PSI



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## Installation

The Potter NGP Series should be installed in a dry, clean, and well-ventilated room with ambient temperatures above 50°F at all times. Allow access to the front of the nitrogen cabinet for service and place the unit in a location that is conveniently located near fire sprinkler system connections and a drain. The Potter Nitrogen Generator should always be installed in an adequately ventilated room. Nitrogen is non-toxic and largely inert.

For engineering specifications, drawings, complete details, and installation manuals visit: [www.pottersignal.com](http://www.pottersignal.com)

## Size & Weight

Model Number	Total Shipping Weight (LBS)	Compressor Skid Shipping Weight (LBS)	Membrane Cabinet Shipping Weight (LBS)	Tank Shipping Weight (LBS)	Total Weight (LBS)	Compressor Skid Weight (LBS)	Membrane Cabinet Weight (LBS)	Tank Weight (LBS)	Compressor Skid Dimensions (HxWxD)	Membrane Cabinet Dimensions (HxWxD)	Tank Dimensions (DIA. x H)		
NGP-300D	450	N/A	N/A	N/A	350	N/A	N/A	N/A	50" x 41" x 28"	N/A	N/A		
NGP-500D	500	N/A	N/A	N/A	400	N/A	N/A	N/A	53" x 41" x 28"	N/A	N/A		
NGP-1000D-M1	600	N/A	N/A	N/A	500	N/A	N/A	N/A	54" X 44" X 32"	N/A	N/A		
NGP-1000D-M2					550								
NGP-1000D-M3					550								
NGP-2200D-M2	1100	600	300	200	N/A	500	200	125	75" X 34" X 29"	48" X 30" X 11"	45" X 16"		
NGP-2200D-M3				200									
NGP-2200D-M4				1175							275	200	70" X 20"
NGP-2200D-M5				1225							350	250	72" X 30" X 15"



**INS-PV**

IntelliPurge® Nitrogen Purge Valve



**INS-RA**

IntelliPurge® Remote Annunciator for INS-PV



**NGP-SPV**

Self-Purging Valve Kit



**NGP-MLK**

Annual Maintenance Device



**NGP-PSN2**

Portable Nitrogen Analyzer



**PS-TM Series**

Preassembled Test Module