



Data Sheet UFS-354

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NITROGEN-PAC™ M SERIES MODEL NGM NITROGEN GENERATOR MODULES

Description

The FM Approved **UNITED Fire Systems** **NITROGEN-PAC™** Model **NGM-5** through **NGM-60** Nitrogen Generator Modules are devices for generating 98% nitrogen as part of a **NITROGEN-PAC™** M Series nitrogen-based corrosion inhibiting system. Each assembly consists of:

- An inlet port for attachment of a supply of compressed air
- High capacity particulate and coalescing filters to protect the nitrogen separator membrane from particles and moisture, thereby extending its lifespan
- An efficient nitrogen separator membrane that separates high-purity nitrogen from compressed air
- A factory-adjusted needle valve that creates back pressure to facilitate the efficient operation of the nitrogen separator membrane
- A test port allowing connection of a hand-held nitrogen purity analyzer verify proper generator operation
- Two (2) pressure gauges to monitor the gas pressure upstream and downstream of the separator membrane
- A three-way ball valve to permit bypassing of the separator membrane, sending compressed air directly to the fire sprinkler system piping for initial-fill. To prevent inadvertently leaving the **NITROGEN-PAC™** M Series system in bypass mode, the enclosure door will not close when the ball valve is in the bypass position
- A heavy-duty enclosure with a latching door to protect all components of the nitrogen generator module. The door and enclosure are equipped with lift-off hinges for ease of access during maintenance



FIGURE 1

NITROGEN-PAC™ M Series Model NGM
Nitrogen Generator Modules

TABLE 1 – NITROGEN-PAC™ Model NGM Nitrogen Generator Modules - Maximum Sprinkler Pipe Volume

Model No.	Maximum Sprinkler Pipe Volume (gallons)
NGM-5	3000
NGM-10	5000
NGM-20	10,000
NGM-30	20,000
NGM-60	31,100

TABLE 2 – Data Sheets for Equipment To Be Used with NITROGEN-PAC™ Model NGM Nitrogen Generator Modules

Data Sheet	Equipment
UFS-352	Model CTA Compressor / Tank Assemblies
UFS-353	Model IRD-42 Refrigerated Dryer
UFS-355	Model NR-60 Nitrogen Receiver

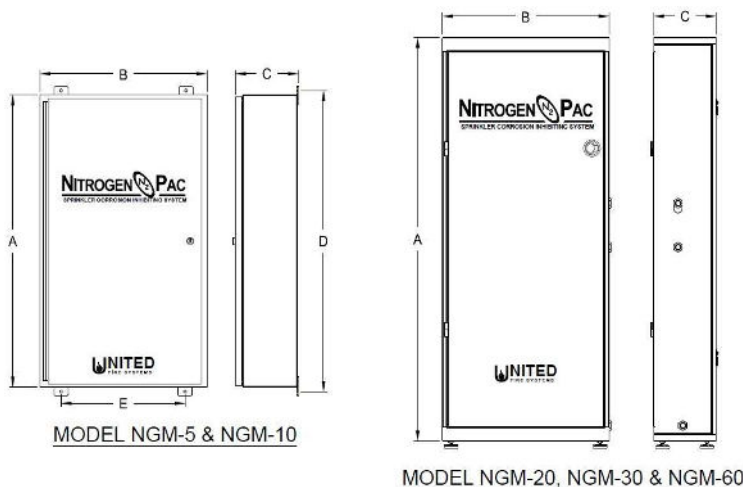


FIGURE 2

NITROGEN-PAC™ M Series Model NGM
Dimensions

For downloadable architect's specifications and drawing details, go to:

unitedfiresystems.com/product/nitrogen-pac-m-series

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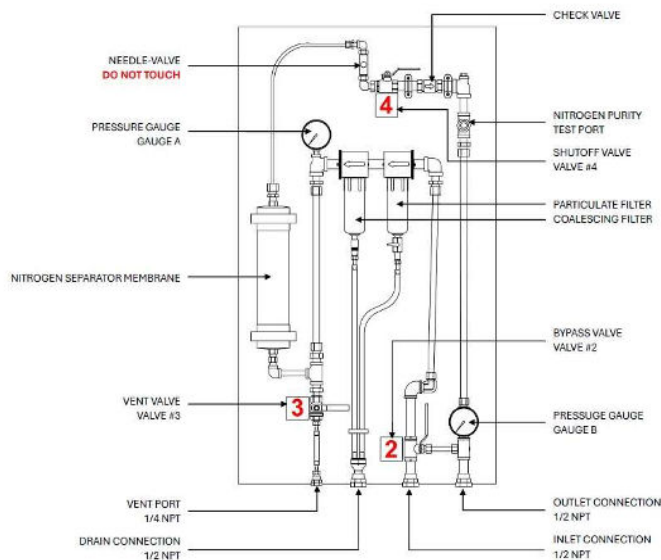
NITROGEN-PAC™ M SERIES MODEL NGM NITROGEN GENERATOR MODULES

TABLE 3 – NITROGEN-PAC™ Model NGM Nitrogen Generator Modules
Weights and Dimensions – Refer to Figure 2

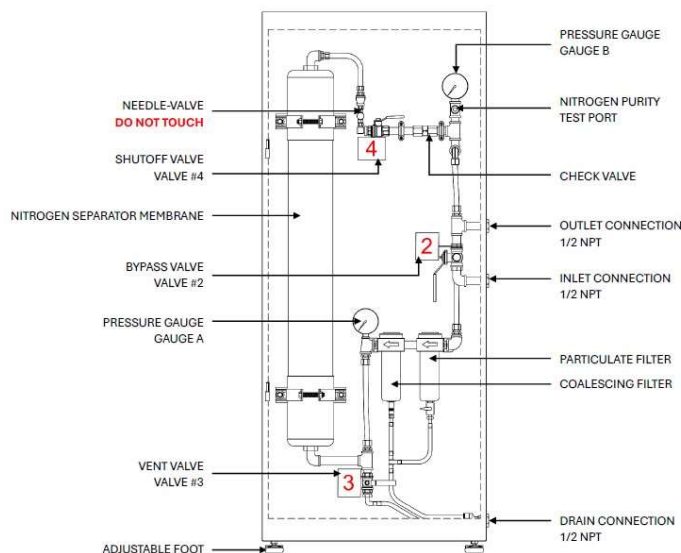
Model No.	Height (A) (inches)	Width (B) (inches)	Depth (C) (inches)	Vertical Distance Between Mounting Holes (D) (inches)	Horizontal Distance Between Mounting Holes (E) (inches)	Approx. Shipping Weight (lbs.)	Approx. Unpacked Weight (lbs.)
NGM-5	42	24	9-1/2	43-1/2	18	105	75
NGM-10	42	24	9-1/2	43-1/2	18	105	75
NGM-20	59-1/2	24	9	N / A	N / A	210	170
NGM-30	59-1/2	24	9	N / A	N / A	210	170
NGM-60	59-1/2	24	9	N / A	N / A	210	170

TABLE 4 – NITROGEN-PAC™ Model NGM Nitrogen Generator Modules
Recommended Minimum Clearances

Model No.	Top	Bottom For Installation Access (inches)	Left (inches)	Right For Installation Access (inches)	Front To Allow for Opening Door (inches)
NGM-5	None	12	8	12	36
NGM-10	None	12	8	12	36
NGM-20	None	None	8	12	36
NGM-30	None	None	8	12	36
NGM-60	None	None	8	12	36

**FIGURE 3**

**NITROGEN-PAC™ M Series Model NGM-5 and NGM-10 –
Component Identification**

**FIGURE 4**

**NITROGEN-PAC™ M Series Model NGM-20, NGM-30, and
NGM-60 – Component Identification**

IMPORTANT – Refer to **UNITED Fire Systems** manual 30-NPMICM-0G2 for detailed design, installation, operation, and maintenance instructions, with checklists for carrying out procedures.

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