





Effective: September 2025

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

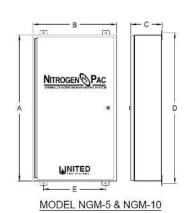
TABLE 1 – NITROGEN-PAC™ Model NGM Nitrogen Generator Modules - Maximum Sprinkler Pipe Volume						
Model No.	Maximum Sprinkler Pipe Volume					
Woder No.	(gallons)					
NGM-5	2980					
NGM-10	5000					
NGM-20	10,000					
NGM-30	18,000					
NGM-60	31,100					

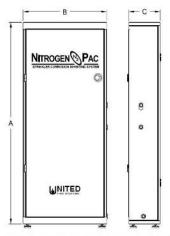
TABLE 2 – Data Sheets for Equipment To Be Used with					
NITROGEN-PAC™ Model NGM Nitrogen Generator Modules					
Data	Equipment				
Sheet	Equipment				
UFS-352	Model CTA Compressor / Tank Assemblies				
UFS-353	Model IRD-42 Refrigerated Dryer				
UFS-355	Model NR-60 Nitrogen Receiver				

For downloadable architect's specifications and drawing details, go to:
<u>unitedfiresystems.com/product/nitrogen-pac-m-series</u>



FIGURE 1
NITROGEN-PAC™ M Series Model NGM
Nitrogen Generator Modules





MODEL NGM-20, NGM-30 & NGM-60

FIGURE 2 NITROGEN-PAC™ M Series Model NGM Dimensions

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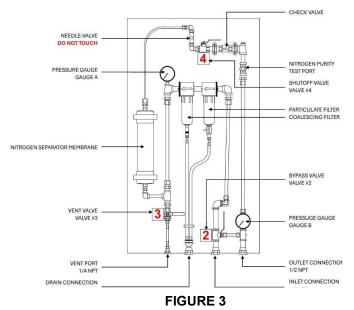
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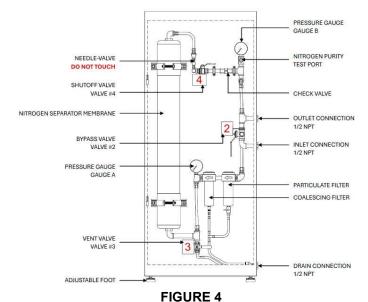
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TABLE 3 - NITROGEN-PAC™ Model NGM Nitrogen Generator Modules									
Weights and Dimensions – Refer to Figure 2									
Model No.	Height (A) (inches)	Width (B) (inches)	Depth (C) (inches)	Vertical Distance	Horizontal Distance	Approx.	Approx.		
				Between Mounting	Between Mounting	Shipping	Unpacked		
				Holes (D) (inches)	Holes (E) (inches)	Weight (lbs.)	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.	Тор	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				



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



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

<u>IMPORTANT</u> – Refer to <u>UNITED Fire Systems</u> manual 30-NPMICM-001 for detailed design, installation, operation, and maintenance instructions, with checklists for carrying out procedures.

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