

Integra

Services International, Inc

Nitrogen Generators For SLS[®] Systems

Point-of-Use Nitrogen Supply

The M1 nitrogen generation method is a unique system that utilizes a durable production device to consistently deliver high-purity nitrogen with minimum maintenance.

The M1 nitrogen generator is available in a wide array of sizes for flow rates of up to 5000 scfh from a single system using your air compressor and refrigeration dryer. The M1 generators produce nitrogen purities ranging from 95% to 99.5% with no moving parts. It only requires clean dry compressed air.

Easy Installation

Installation is quick and easy. The M1 nitrogen generator and coalescing pre-filters are installed in-line which greatly simplifies process piping. The unit can also be wall or frame mounted. (Enclosures and holding tanks available upon request.) Incoming air needs to be dried via a refrigeration air dryer to 40°F dew point and hold less than 5 ppm of THC.

Maintenance

Integra Services stocks maintenance kits for M1 nitrogen Generators.



Pictured is the M1-168 Nitrogen Generator

Applications

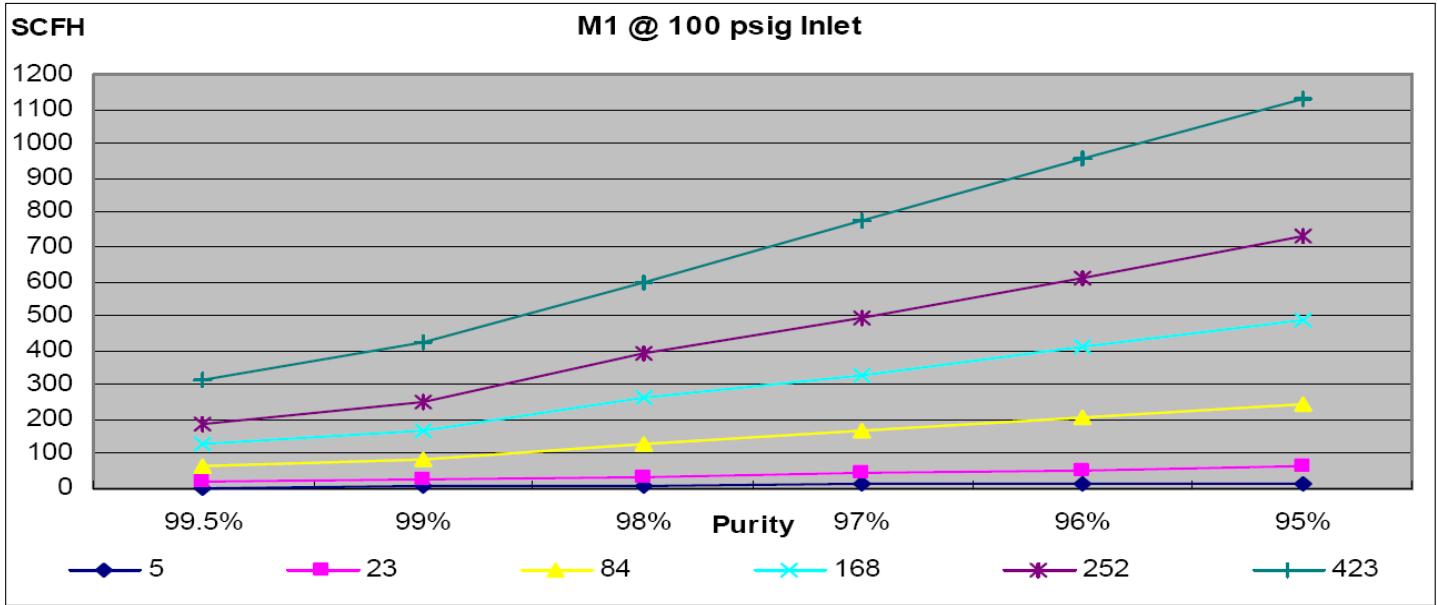
- ∞ All SLS[®] Systems
- ∞ Special laser applications
- ∞ Point-of-use nitrogen
- ∞ Cabinet inerting or purging
- ∞ Vessel inerting or purging
- ∞ Laboratory nitrogen supply
- ∞ Oxidation prevention
- ∞ Increase shelf life of perishables
- ∞ Inert atmospheres
- ∞ Electronics storage
- ∞ Optic glove-box

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M1 Flows



Flow Rates Shown Below are at 100 psig Inlet

Model	Flow @ 99.5%	Flow @ 99.0%	Flow @ 97%	Flow @ 95%	Part No.	Dimensions H x W x D (in)	Weight (lbs)
M1-5	2	5	10	14	M1- 5	18 x 24 x 8	9
M1-23	18	18	42	64	M1-23	48 x 36 x 8	11
M1-84	63	84	165	243	M1-84	48 x 40 x 8	20
M1-168	126	168	330	486	M1-168	48 x 40 x 8	35
M1-252	189	252	495	729	M1-252	48 x 44 x 8	50
M1-423	317	423	777	1130	M1-423	48 x 40 x 8	85
M1-826	634	826	1554	2260	M1-826	48 X 60 X 24	380

Model M1-826 is Floor Mount Only
All Other Units can be Frame or Wall Mounted

Inlet Air

Inlet air must be refrigeration air dried to a minimum 40°F pressure dew point (1500 ppm/v H₂O) and contain less than 5 ppm/v total hydrocarbons (THC) to obtain the listed flow rates.

Flows are listed in SCFH, for NM₃/H the multiplier is 0.0283

Maximum operating ambient temperature is 140 degrees Fahrenheit.

Nitrogen purity includes other inerts.

Models 5 and 23 include (3) prefilters and do not include a regulator