

## Required Compressor Specifications for NITRO-GEN 20

The NITRO-GEN 20 Nitrogen Generator, Cat# NA1955, must be used in conjunction with a laboratory grade oil-less air compressor or other clean compressed air source.

### Inlet Air Conditions

Max. operating pressure	150 psig
Particles	filtered at 0.01 $\mu$ m cut off
Max. oil vapor content	<0.01 ppm (w)
Relative humidity	<100% (non-condensing)

The tables below show the minimum feed-air consumption for the NITRO-GEN 20 Nitrogen Generator at varying inlet air pressure and resulting nitrogen purity. The first table relates compressor pressure to nitrogen output flow and purity, and the second specifies required minimum feed-air consumption to achieve that nitrogen output. Match entries between the two tables based on nitrogen purity and inlet air pressure; for instance 19.33 L/min of compressed air at 58 psi will be consumed to generate 2.5 L/min of nitrogen gas at 99% purity.

### Minimum Nitrogen Flow Rate NITRO-GEN 20 (L/min)

Inlet AIR (psi)	Nitrogen Purity (%)				
	99	98	97	96	95
58	2.50	4.50	6.50	8.33	10.33
73	3.17	5.67	8.00	10.33	13.00
87	4.17	7.50	10.33	13.33	16.33
102	4.83	8.67	12.17	15.50	19.00
116	5.50	10.00	13.83	17.67	21.83
131	6.50	11.67	15.83	20.50	25.33
145	6.83	12.50	17.33	22.17	27.33

### Feed-air consumption at minimum nitrogen flow rate (L/min)

Inlet AIR (psi)	Nitrogen Purity (%)				
	99	98	97	96	95
58	19.33	21.50	23.83	25.67	28.17
73	24.00	26.83	29.67	32.00	35.17
87	28.83	33.00	36.33	39.83	44.17
102	33.67	38.50	42.50	46.50	51.50
116	38.50	44.00	48.50	53.17	58.83
131	45.00	51.00	55.50	61.50	68.33
145	48.17	55.00	60.67	66.50	73.67