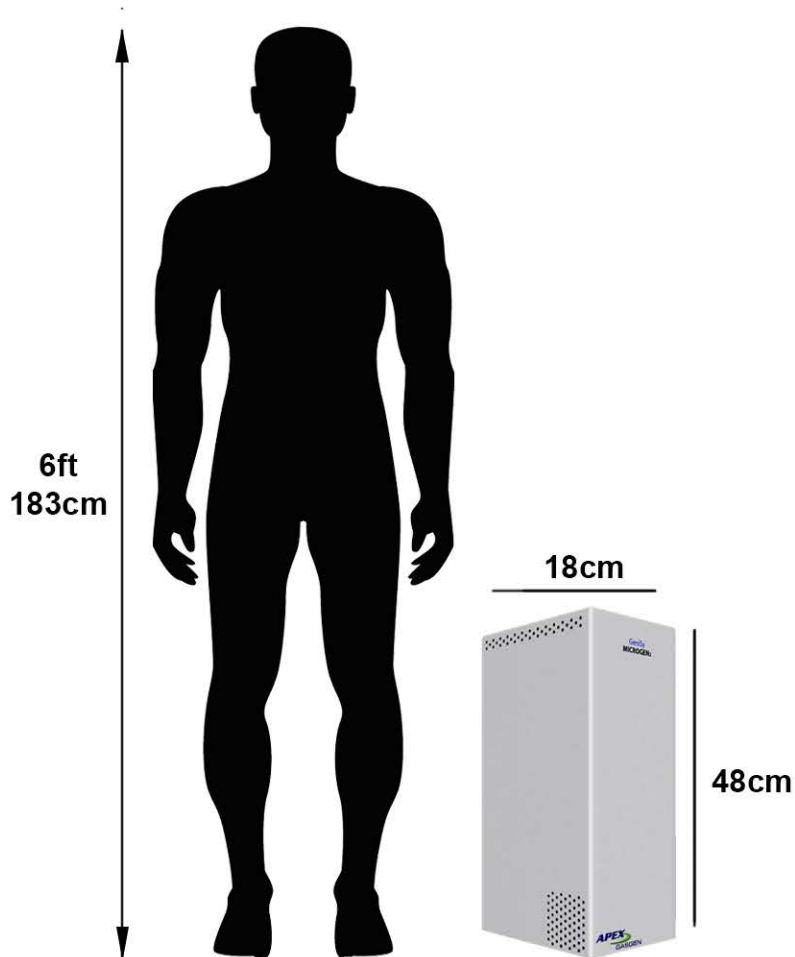




APEX
GASGEN

Nevis Desktop C



Description

The Nevis Desktop High Purity Laboratory Generator is from the Apex Microgen2 series and is one of the smallest footprint Nitrogen generators available in the world.

The generator is only 48 centimeters high and 18 centimeters wide for a better comparison the above video uses a regular size can (330ml) to indicate the size. Easily install it on a workbench or in a small space. You receive an uninterrupted supply of high-purity nitrogen whenever you need it, and you never have to pay for bottled gas again.

Utilising Pressure Swing Adsorption technology the Apex Nevis Desktop provides ideal performance, efficiency and reliability in the smallest foot print in the market! High purity nitrogen is delivered as and when required. The Nevis Desktop can be supplied with an integral compressor for true stand-alone operation.

Features & Benefits

- Optimal flow rate of 0.2 litres / minute
- High purity Nitrogen of up to 99.9995% purity
- Smallest footprint on the market
- Stand-by mode
- PSA technology
- Optional built in oil-free compressor
- Easy installation
- Simple maintenance





Technical Specifications

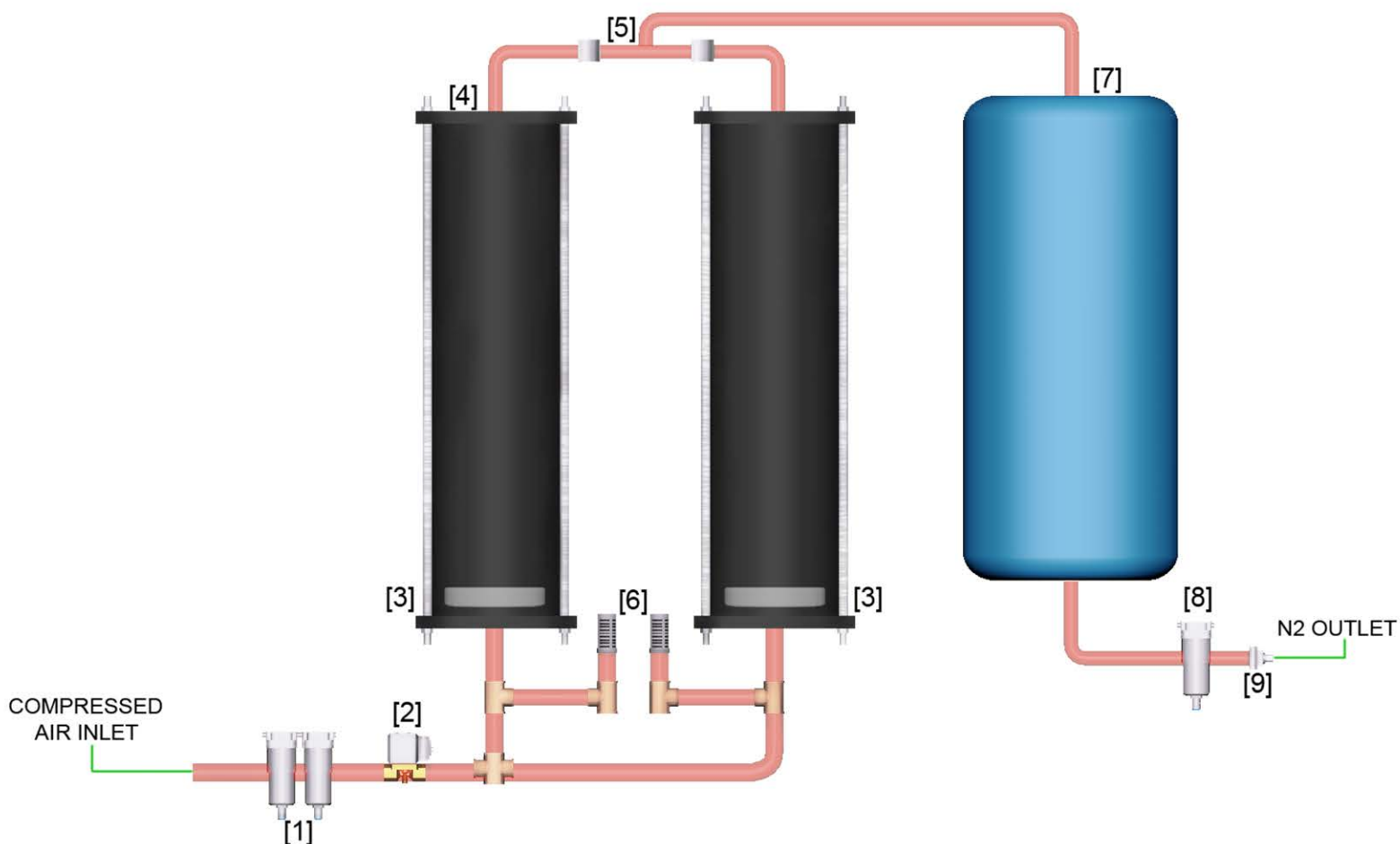
Model	Nevis Microgen C
Flow / Min	0.2
Purity (% N2)	Up to 99.9995% (5 ppm residual O2)
Dew Point (°C)	- 40
Output Pressure	5.5 / 80
Inlet Air Requirements	8 L/Min at 7 Bar / 100 PSIG
Power	112 W, 110-230 V
Depth (mm / inch)	214 / 8.4
Height (mm / inch)	480 / 18.9
Width (mm / inch)	180 / 7.1
Weight (kg / lbs)	12 / 26
Connection Ports	Female 1/8 BSPP

Whilst the Nevis Desktop is designed to provide high purity Nitrogen at its optimal flow rate it can be set up to provide higher flow rates at greatly reduced purity levels as indicated here:

Purity (%N2)	Flow (L/Min)	Outlet Pressure (Barg/PSIG)
99.99%	0.3	4.5 / 65
99.95%	0.4	4 / 58
99.8%	0.5	3.8 / 55
99.7%	1	2 / 29

How It Works

Air from an external source enters the generator via a 0.01-micron filter [1] that removes contaminants and bulk moisture via an integrated auto drain. When the control system assesses that more nitrogen is required, the solenoid valve [2] is opened and pressure is allowed to build in the column [4] containing Carbon Molecular Sieve (CMS) and a residue moisture catcher [3]. This sieve adsorbs the oxygen and leaves the dry nitrogen free to flow through the non-return valve into the direction of the variable reservoir capacity (VRC) [7]. Following on from this the Nitrogen is allowed to flow to the application via another 0.01-micron filter [8] and pressure and flow regulators [9]. The trapped oxygen is meanwhile filtered out through the exhaust valves [6]





Applications

- Gas Chromatography
- Fast Gas Chromatography
- Flame Ionisation Detection (FID)
- Ionisation (API-ms)
- Photonics

Warranty

All Apex units are supplied with our standard 1 year warranty. Accompanied with our on-going care and servicing facilities Apex provides the highest quality peace of mind.



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