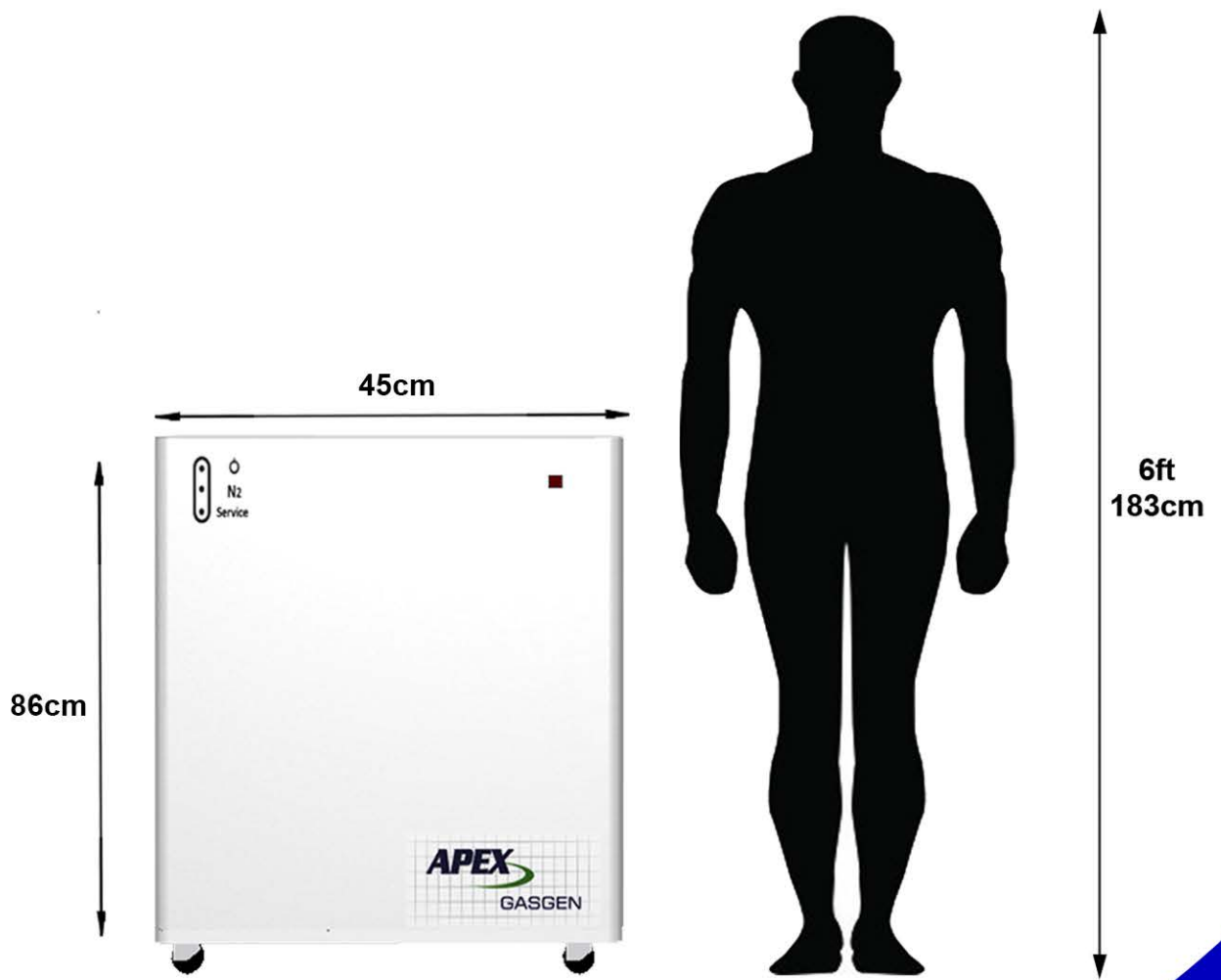




APEX
GASGEN

The Nevis 1C



Description

The Apex Nevis 1C supplies you with high purity nitrogen as and when it is required. The system utilises Pressure Swing Adsorption (PSA) technology to provide you with the purest form of nitrogen available in a continuous supply at the best industrial price for your application.

Featuring an integral Jun Air compressor each Nevis-C generator provides a true stand-alone solution, which offers efficiency for the ideal performance time and time again.

The Nevis-C series provides flexibility to match your system requirements. Here at Apex we have a team of highly skilled engineers with the ability to customise your machines purity, flow rate, and delivery pressure according to your specifications.

Features & Benefits

- Standard Flow Rates of up to 10litres/min
- Output Pressure 5.4 Barg / 80psig
- High Purity Nitrogen up to 99.9995%
- Medical Grade Tubing as Standard
- Stand-By Mode
- PSA Technology
- Built in Oil-Free Compressor to Reduce Contaminants
- Easy Installation
- Simple and Low Cost Maintenance



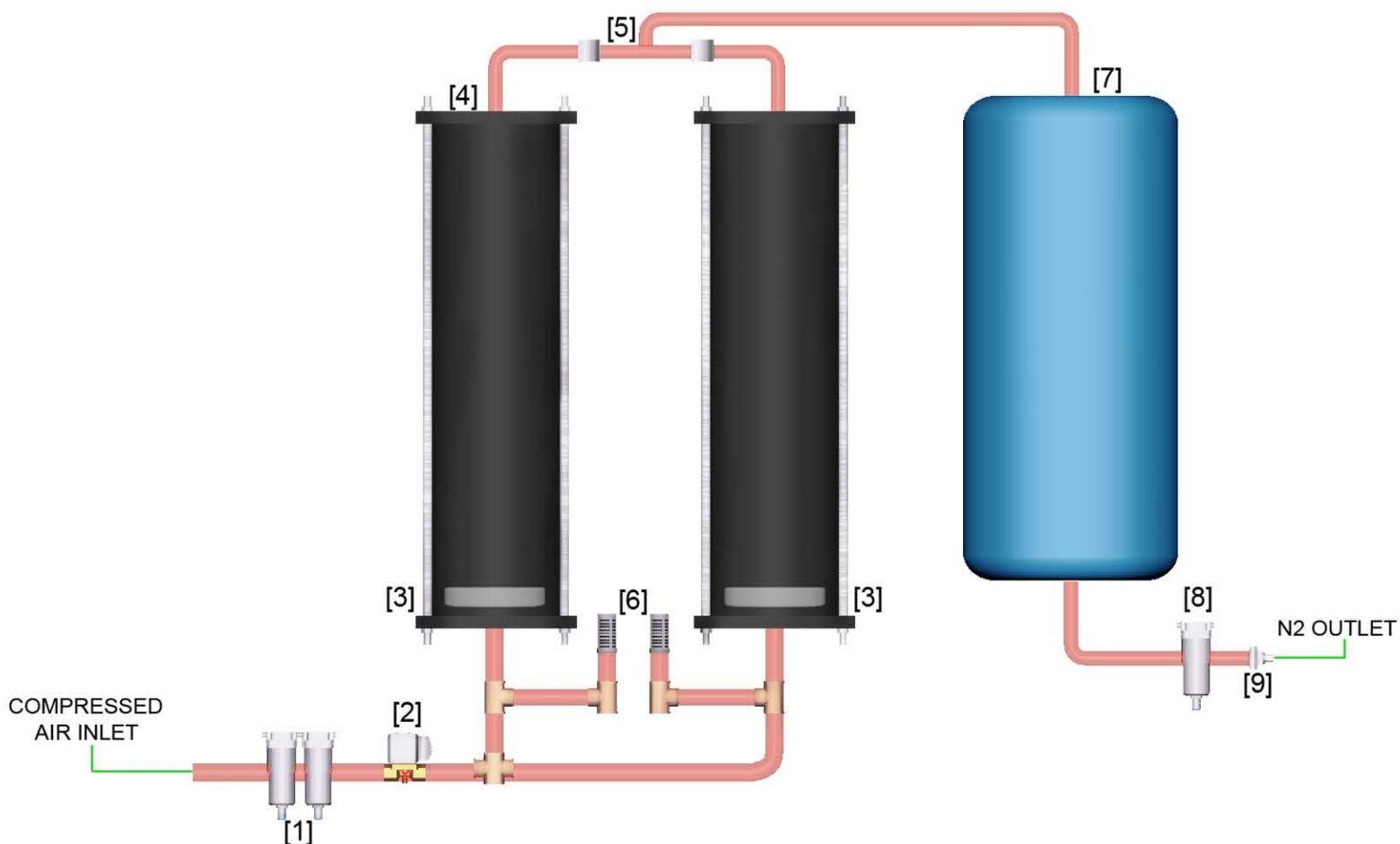


Technical Specifications

Model	Nevis-1C
Flow / Min	1
Purity (%N2)	Up to 99.9995% (5 ppm residual O2)
Dew Point (C PDP)	-40
Power Consumption (W)	1200
Voltage (V AC)	230 or 110
Depth (mm/inch)	650 / 25.6
Height (mm/inch)	860 / 33.9
Width (mm/inch)	450 / 17.7
Weight (kg/lbs)	40 / 88
Connection Ports	Female 1/4" BSPP
Max Altitude (m)	2000
Particulates (um)	<0.01
Lubricants	None
Output Pressure (BARG/PSIG)	5.4 / 80
Humidity	80% up to 31°C decreasing linearly to 50% at 40°C

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

- Vessel Leak Detection
 - Ionisation (API-ms)
- GC-FID (Carrier gas)
- GC-FID (Make-up gas)

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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