

# APEX NEVIS SERIES NITROGEN GENERATORS

## Features and benefits

- ◇ Standard flow rates of up to 10 litres/min
- ◇ Output pressure 5.4 Barg / 80psig
- ◇ High purity Nitrogen up to 99.9995%
- ◇ Medical grade tubing as standard
- ◇ Stand-by mode
- ◇ PSA technology
- ◇ Easy installation
- ◇ Simple and low cost maintenance



## Description

Utilising Pressure Swing Adsorption technology the Apex Nevis series provides ideal performance, efficiency and reliability. High purity nitrogen is delivered as and when required. All models in the range are mobile to allow easy repositioning and installation.

The Nevis series provides flexibility to match your system requirements. We can customise the purity, flow rate and delivery pressure to suit your specifications.

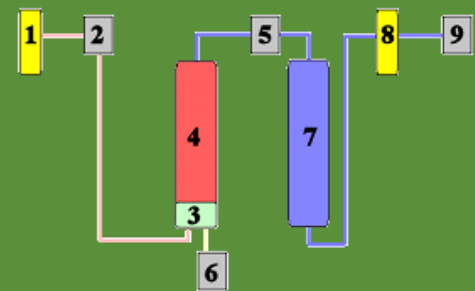


# Technical specifications:

| Model                     | Nevis-1   | Nevis-2                     | Nevis-3    | Nevis-5    | Nevis-10                     |
|---------------------------|---|-----------------------------|------------|------------|------------------------------|
| Flow /min                 | 1   | 2                           | 3          | 5          | 10                           |
| Purity (%N <sub>2</sub> ) | Up 99.9995% (5 ppm residual O <sub>2</sub> )      |                             |            |            |                              |
| Dew point (C PDP)         | -40   |                             |            |            |                              |
| Output pressure (bar/psi) | 5.4 / 80  |                             |            |            |                              |
| Inlet Air Requirements    | 20L/min at 7 Barg / 100psig                       | 38L/min at 7 Barg / 100psig |            |            | 130L/min at 7 Barg / 100psig |
| Power                     | 8.1W<br>110-230V                                  |                             |            |            |                              |
| Depth (mm/inch)           | 143 / 5.6   | 439 / 17.3                  | 439 / 17.3 | 439 / 17.3 | 650 / 25.6                   |
| Height (mm/inch)          | 645 / 25.4  | 768 / 30.2                  | 768 / 30.2 | 768 / 30.2 | 860 / 33.9                   |
| Width (mm/inch)           | 288 / 11.3  | 380 / 15.0                  | 380 / 15.0 | 380 / 15.0 | 760 / 30                     |
| Weight (kg/lbs.)          | 14.5 / 32.0                                       | 73 / 161                    | 73 / 161   | 73 / 161   | 73 / 161                     |
| Connection ports          | Female 1/4" BSPP                                  |                             |            |            |                              |
| Max Altitude(m)           | 2000  |                             |            |            |                              |
| Particulates (µm)         | <0.01   |                             |            |            |                              |
| Lubricants                | None  |                             |            |            |                              |
| 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, solenoid valve [2] is opened and the 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 into the reservoir [7]. After this point, the Nitrogen is allowed to flow to the application via another 0.01-micron filter [8] and pressure and flow regulators [9].



## 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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