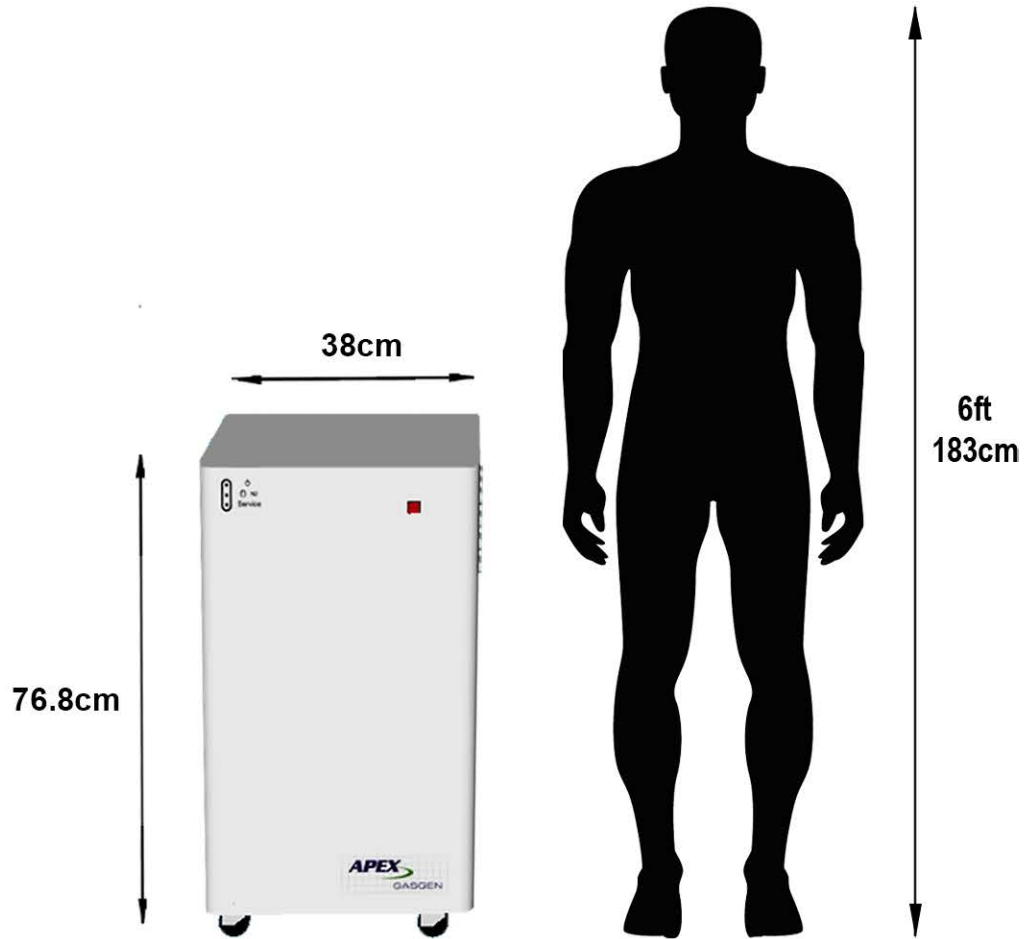




**APEX**

**GASGEN**

**The Munro 20**



## Description

The Apex Munro Series is a discrete, efficient and modular range of high flowing nitrogen generators, which have been manufactured to provide you with high purity dry nitrogen whenever you require it. Each Munro uses Pressure Swing Adsorption (PSA) technology for both superior performance and reliability at a reasonable price.

The Munro Series offers a wide range of models to cover a variety of applications such as Mass Spectrometry (LCMS instruments), drying gas and shield gas, fibre optics etc. Each of Apex's nitrogen generators can be run from an external source of compressed air or can be built with an integral compressor, which can provide almost silent operation.

Apex's engineers are always happy to consult with you regarding your needs and figuring out which machine would best suit your requirements. Maintenance for your High Purity Nitrogen Generator is made simple by Apex's service package and 1 year warranty.

# Features & Benefits

- Standard flow rates of up to 60litres/min
- Output pressure 7 Barg / 100psig
- Certified purity level >95%
- Medical grade tubing as standard
- Stand-by mode
- PSA technology
- Easy installation
- Simple and low cost maintenance
- Integrated air compressor available



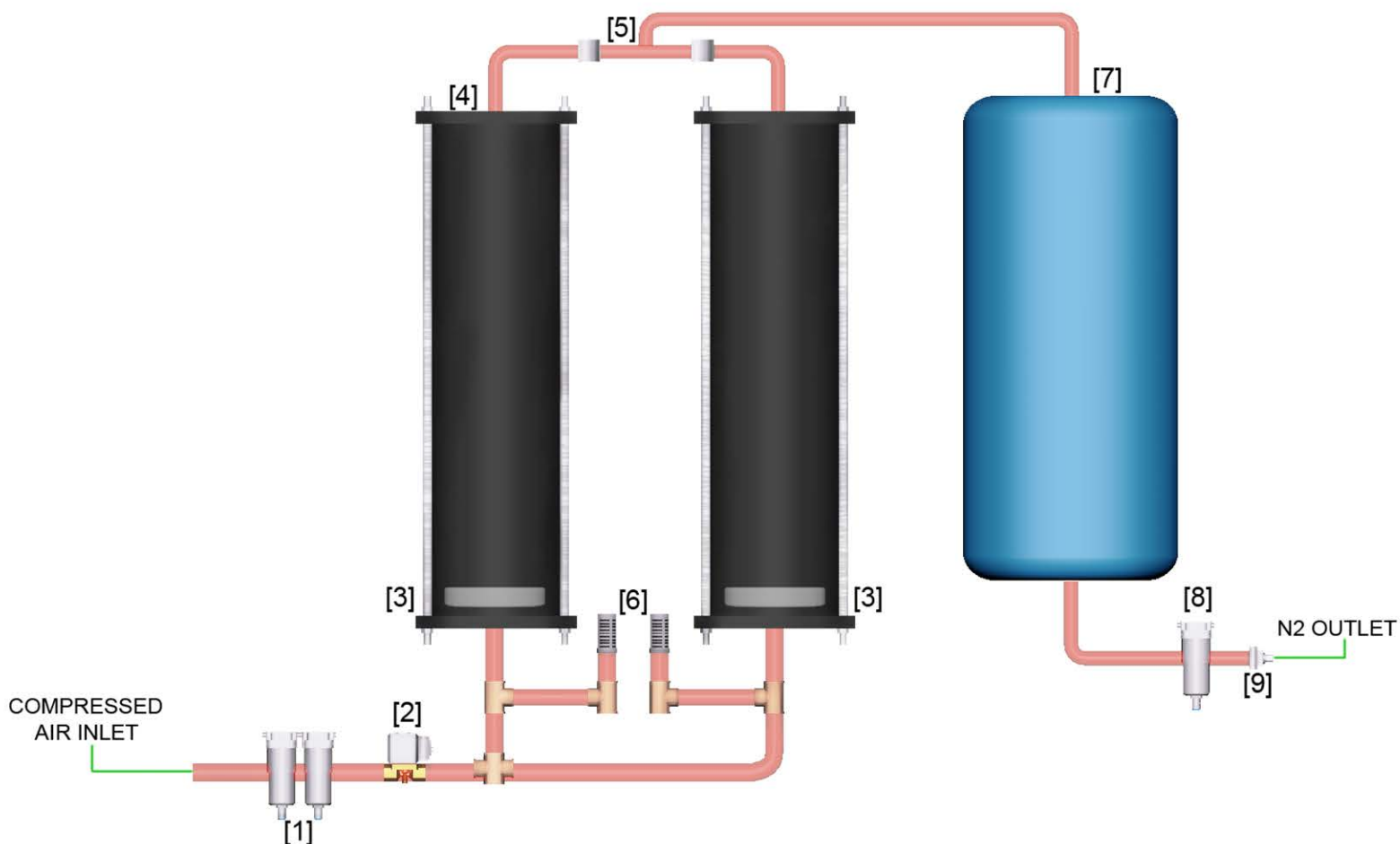


## Technical Specifications

|                            |   |
|----------------------------|---|
| <b>Model</b>               | <b>Munro 20</b>                                   |
| Flow / Min                 | 20  |
| Dew Point (°C)             | - 40  |
| Outlet Pressure (Bar/PSIG) | 6.9 / 100   |
| Inlet Air Requirements     | 130 L / Min at 8 Bar / 100 PSIG                   |
| Power                      | 8.1 W, 110 - 230 V                                |
| Depth (mm / inch)          | 439 / 17.3  |
| Height (mm / inch)         | 768 / 30.2  |
| Width (mm / .inch)         | 380 / 15.0  |
| Weight (kg / lbs)          | 73 / 161  |
| Connection Ports           | Female 1/4 BSPP                                   |
| Max Altitude (m)           | 2000  |
| Particulates (um)          | <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, 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

- Mass Spectrometry (LCMS instruments)
- Drying Gas & Shield Gas
- Fibre Optics
- Blanket gas for Ovens
- Special Coatings
- Wave Soldering
- Packaging

## 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.



## Contact Details

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