

NITROGEN GENERATORS

HP Plus TOWER Series

The new **HP Plus Tower Nitrogen Generator** produces high purity nitrogen for all major applications in analytical laboratories. Nitrogen generators eliminate the problems associated with the handling of high pressure gas tanks and reduce the cost of high purity nitrogen immediately. The N2-TOWER Plus series of nitrogen generators use air from a separate compressor and remove the oxygen to less than 10ppm (hydrocarbons to 0.1ppm is optional with catalytic oven).



BENEFITS

✓ **BETTER RESULTS FROM ANALYTICAL INSTRUMENTS**

The constant purity of the nitrogen improves system stability and ensures reproducible results.

✓ **LAB SAFETY**

Nitrogen produced at low pressure and room temperature eliminates the risks associated with high pressure gas bottles and the handling of liquid nitrogen.

✓ **COST SAVING**

The equipment cost is normally recovered in less than a year. In addition, no pipeline is required to carry gas from the storeroom to the lab

HP Plus N2 TOWER FEATURES

- ✓ Flow rate 500 ml/min
- ✓ Purity 99.999%
- ✓ LED-display for status
- ✓ Maintenance control light
- ✓ Alarms for catalyst duration, catalyst temperature, and pressure
- ✓ Simple filter removal without the need to open the instrument

OPERATING PRINCIPLE

The compressed air from an outside source (not included) is pre-cleaned by passing through a charcoal filter before the Oxygen is removed by the double column pressure swing adsorption (PSA) system. The removed gases like Oxygen are released back to the atmosphere.

Other trace impurities such as hydrocarbons and CO are removed to levels <0.1ppm whilst the Nitrogen is passing through an optional catalyst. An additional filter is installed to remove particulates down to 0.5 microns.

Specification HP Plus N2 Tower

| MODELS | N2-TOWER 500 | N2-TOWER 750 | N2-TOWER 1300 | N2-TOWER 4000 |
|---------------------------|--|-----------------|------------------|------------------|
| Flow ml/min. | 500 | 750 | 1300 | 4000 |
| Weight (kg) | 15 | 15 | 15 | 15 |
| Purity | >99,999% | >99,999% | 99,99% | 99% |
| Hydrocarbon purity | 0.1 ppm Total Hydrocarbons (with catalytic oven installed) | | | |
| Dew Point | -50° C | | | |
| Inlet pressure | min 7 bar - max 10 bar | | | |
| Outlet pressure | up to 5 bar | | | |
| Pressure drop | 1.5 bar | | | |
| Inlet air quality | Clean dry compressed air ISO 8573-1:2010 Class 3.2.2 | | | |
| Technology | Carbon Molecular Sieve PSA | | | |
| Hydrocarbon purity | 0.1 ppm Total Hydrocarbons (with catalytic oven installed) | | | |
| LED Indicators | Power on / off, system ready, errors | | | |
| Sound level | Noiseless (external compressor) | | | |
| Particle filtration level | 50 µm | | | |
| Inlet connection | 1/4" compression | | | |
| Outlet connection | 1/8" compression | | | |
| Power requirements | 110-120V 60Hz / 220-240V 50Hz | | | |
| Power consumptions | 12 W - 270W with catalytic oven | | | |
| Product dimension | 140W x 630D x 490H | | | |
| Shipping dimensions (mm) | 770W x 410D x 590H Weight 20 Kg. | | | |
| Certification | CE, MET, FCC | | | |

The following option is available:

- Catalytic oven