



**PPNG 6-68 S**

# Pneumatech PPNG 6-68 S Nitrogen Generator



At Ash Air, it isn't just about the products. We're passionate about performance and service, with more than 50 qualified engineers working throughout the country providing unsurpassed compressed air solutions.


Broad product portfolio of robust compressors & tools

Decades of experience & innovation. Since 1979

24/7 service support with back up and hire equipment

"We are committed to being the easiest company to deal with in the air compressor and vacuum industry."

## Energy Saving Solution

-  **7,900** serviceable units
-  **30.6km** AIRnet piping installed
-  **3580 kW** combined power of VSD compressors installed
-  **2.1 MWh** potential yearly energy
-  **3.5 MWh** saved with AIRnet and VSD each year
-  **2.2 MTon** CO<sub>2</sub> emissions eliminated each year

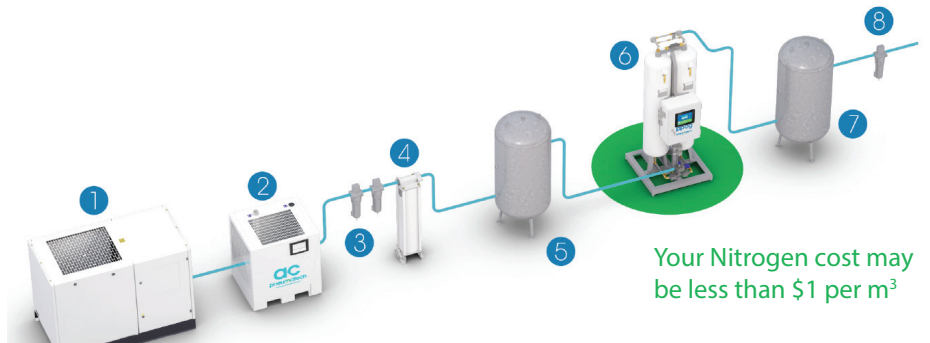
Switch from Liquid Nitrogen to Onsite Generation and cut your operating cost down!

Leasing a Nitrogen Generator onsite from Ash Air is a risk free way for you to cover your Nitrogen needs (up to 99.999% purity, up to 148 m<sup>3</sup>/h flow).

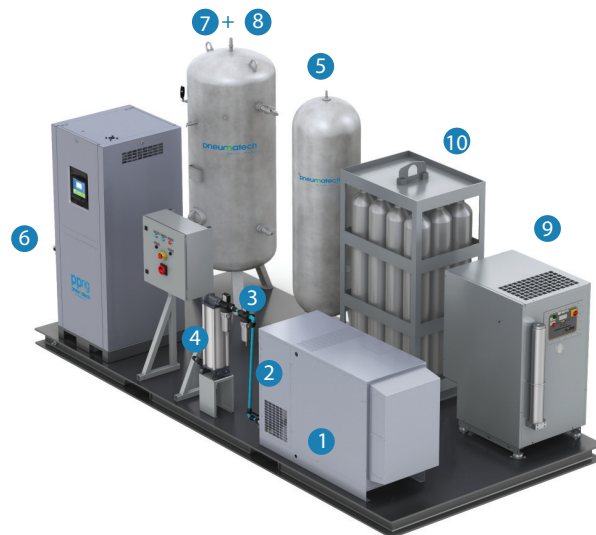
Leasing a Nitrogen Generator onsite is a risk free alternative to liquid nitrogen: all you need to do is provide electricity and space. If you opt for a lease, you incur no capital expenditure; you simply switch from Manifold Cylinder Pallat (MCP) to your own Nitrogen lease fee.

The fee is fixed for 5 years, thus nitrogen costs will remain as your operating expenses. We will do remote monitoring and preventative maintenance to ensure the highest up-time.

## Onsite Low Pressure Generator (12 bar Nitrogen Pressure)



## Onsite High Pressure Generator Skid (40 bar Nitrogen Pressure)



1. Compressor
2. Refrigeration Dryer
3. Filters G HE + C HE
4. VT Carbon Tower
5. Air Receiver
6. Nitrogen Generator
7. Nitrogen Receiver
8. S HE Dust Filter
9. 40 bar Booster
10. Nitrogen Bottles

## Benefits of Onsite Nitrogen Generation

- Less cost per min m<sup>3</sup>/min
- No implicit cost, such as cylinder rent and transport
- No cost of evaporated nor remaining nitrogen in bottles





Wine Bottling



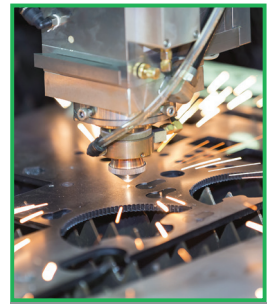
Blanketing



Laser Welding



Food Packaging



Laser Cutting

### Purity %

| Nitrogen flow, m <sup>3</sup> /h | 95     |  | 96     |  | 97     |  | 98     |  | 99     |  | 99.5   |  | 99.9   |  | 99.959 |  | 9.99   |  | 99.999 |  |
|----------------------------------|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|
|                                  | \$     |  | \$     |  | \$     |  | \$     |  | \$     |  | \$     |  | \$     |  | \$     |  | \$     |  | \$     |  |
| 5                                | \$ 1.0 |  | \$ 1.0 |  | \$ 1.1 |  | \$ 1.1 |  | \$ 1.1 |  | \$ 1.1 |  | \$ 1.2 |  | \$ 1.2 |  | \$ 1.6 |  | \$ 1.9 |  |
| 10                               | \$ 0.6 |  | \$ 0.6 |  | \$ 0.6 |  | \$ 0.6 |  | \$ 0.6 |  | \$ 0.6 |  | \$ 0.8 |  | \$ 0.9 |  | \$ 1.1 |  | \$ 1.4 |  |
| 15                               | \$ 0.4 |  | \$ 0.4 |  | \$ 0.4 |  | \$ 0.4 |  | \$ 0.5 |  | \$ 0.5 |  | \$ 0.7 |  | \$ 0.7 |  | \$ 0.9 |  | \$ 1.2 |  |
| 20                               | \$ 0.3 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.4 |  | \$ 0.4 |  | \$ 0.5 |  | \$ 0.6 |  | \$ 0.7 |  | \$ 0.8 |  |        |  |
| 25                               | \$ 0.3 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.4 |  | \$ 0.4 |  | \$ 0.4 |  | \$ 0.6 |  | \$ 0.6 |  | \$ 0.8 |  |        |  |
| 30                               | \$ 0.3 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.4 |  | \$ 0.4 |  | \$ 0.5 |  | \$ 0.6 |  |        |  |        |  |
| 40                               | \$ 0.2 |  | \$ 0.2 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.4 |  | \$ 0.5 |  | \$ 0.6 |  |        |  |        |  |
| 50                               | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.5 |  |        |  |        |  |        |  |
| 60                               | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.3 |  | \$ 0.3 |  | \$ 0.3 |  |        |  |        |  |        |  |        |  |
| 70                               | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.3 |  | \$ 0.3 |  |        |  |        |  |        |  |        |  |
| 80                               | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.3 |  | \$ 0.3 |  |        |  |        |  |        |  |        |  |
| 90                               | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.3 |  |        |  |        |  |        |  |        |  |        |  |
| 100                              | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.3 |  |        |  |        |  |        |  |        |  |        |  |
| 110                              | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  | \$ 0.2 |  |        |  |        |  |        |  |        |  |        |  |        |  |
| 120                              | \$ 0.2 |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |
| 130                              | \$ 0.2 |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |        |  |



Price per m<sup>3</sup> of N<sub>2</sub> including leasing fees and energy costs calculated at 3000 hours/year

### Technical Data

| Purity % | Air Consumption (m <sup>3</sup> /h) |       |       |       |       |       |       |        | Free Air Delivery Nitrogen (Nm <sup>3</sup> /h) |       |       |       |      |       |       |        | AirFactor |      |      |      |      |       |       |        |
|----------|-------------------------------------|-------|-------|-------|-------|-------|-------|--------|---|-------|-------|-------|------|-------|-------|--------|-----------|------|------|------|------|-------|-------|--------|
|          | 97                                  | 98    | 99    | 99.5  | 99.9  | 99.95 | 99.99 | 99.999 | 97  | 98    | 99    | 99.5  | 99.9 | 99.95 | 99.99 | 99.999 | 97        | 98   | 99   | 99.5 | 99.9 | 99.95 | 99.99 | 99.999 |
| PPNG 6S  | 37.0                                | 33.6  | 29.9  | 27.3  | 23.9  | 16.5  | 14.2  | 11.5   | 17.4  | 14.6  | 11.3  | 9.1   | 5.9  | 4.4   | 3.1   | 1.7    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.72  | 4.63  | 6.75   |
| PPNG 7S  | 47.6                                | 43.3  | 38.4  | 35.1  | 30.8  | 21.2  | 18.3  | 14.8   | 22.4  | 18.8  | 14.5  | 11.7  | 7.6  | 5.7   | 3.9   | 2.2    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.72  | 4.63  | 6.75   |
| PPNG 9S  | 58.2                                | 53.0  | 47.0  | 42.9  | 37.7  | 26.0  | 22.3  | 18.1   | 27.4  | 23.0  | 17.7  | 14.3  | 9.3  | 7.0   | 4.8   | 2.7    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.72  | 4.63  | 6.75   |
| PPNG 12S | 73.9                                | 67.3  | 59.7  | 54.5  | 47.9  | 33.0  | 28.4  | 22.9   | 34.9  | 29.3  | 22.5  | 18.2  | 11.8 | 8.9   | 6.1   | 3.4    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.72  | 4.63  | 6.75   |
| PPNG 15S | 95.1                                | 86.6  | 76.8  | 70.2  | 61.6  | 42.4  | 36.5  | 29.5   | 44.9  | 37.6  | 29.0  | 23.4  | 15.2 | 11.4  | 7.9   | 4.4    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.72  | 4.63  | 6.75   |
| PPNG 18S | 116.4                               | 105.9 | 94.0  | 85.8  | 75.3  | 51.9  | 44.7  | 36.1   | 54.9  | 46.0  | 35.5  | 28.6  | 18.6 | 14.0  | 9.7   | 5.3    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.72  | 4.63  | 6.75   |
| PPNG 22S | 142.7                               | 129.9 | 115.3 | 105.2 | 92.4  | 61.3  | 55.5  | 47.4   | 67.3  | 56.5  | 43.5  | 35.1  | 22.8 | 17.1  | 12.4  | 7.1    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.58  | 4.47  | 6.65   |
| PPNG 28S | 174.5                               | 158.9 | 141.0 | 128.7 | 113.0 | 74.9  | 67.8  | 58.0   | 82.3  | 69.1  | 53.2  | 42.9  | 27.9 | 20.9  | 15.2  | 8.7    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.58  | 4.47  | 6.65   |
| PPNG 30S | 190.3                               | 173.2 | 153.7 | 140.3 | 123.2 | 81.7  | 73.9  | 63.2   | 89.7  | 75.3  | 58.0  | 46.8  | 30.4 | 22.8  | 16.5  | 9.5    | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.58  | 4.47  | 6.65   |
| PPNG 37S | 232.7                               | 211.8 | 188.0 | 171.6 | 150.7 | 99.9  | 90.4  | 77.3   | 109.8   | 92.1  | 70.9  | 57.2  | 37.2 | 27.9  | 20.2  | 11.6   | 2.12      | 2.30 | 2.65 | 2.95 | 4.05 | 3.58  | 4.47  | 6.65   |
| PPNG 41S | 257.0                               | 234.1 | 226.2 | 205.6 | 182.5 | 116.7 | 103.3 | 93.4   | 121.2   | 102.7 | 87.0  | 70.2  | 45.6 | 32.5  | 23.1  | 14.3   | 2.12      | 2.28 | 2.60 | 2.93 | 4.00 | 3.59  | 4.47  | 6.55   |
| PPNG 50S | 314.3                               | 286.3 | 276.6 | 251.4 | 223.3 | 142.8 | 126.3 | 114.2  | 148.3   | 125.6 | 106.4 | 85.8  | 55.8 | 39.8  | 28.3  | 17.4   | 2.12      | 2.28 | 2.60 | 2.93 | 4.00 | 3.59  | 4.47  | 6.55   |
| PPNG 63S | 0.0                                 | 312.2 | 280.8 | 260.7 | 226.8 | 157.7 | 142.6 | 122.4  | 0.0   | 138.1 | 108.8 | 91.2  | 59.1 | 46.5  | 34.0  | 20.5   | 0.00      | 2.26 | 2.58 | 2.86 | 3.84 | 3.39  | 4.20  | 5.98   |
| PPNG 68S | 0.0                                 | 0.0   | 328.9 | 305.3 | 258.6 | 190.4 | 168.4 | 152.3  | 0.0   | 0.0   | 126.5 | 104.2 | 64.7 | 53.0  | 37.7  | 23.3   | 0.00      | 0.00 | 2.60 | 2.93 | 4.00 | 3.59  | 4.47  | 6.55   |

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