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Nitrogen Generator Buyer's Checklist

1. Define Your Application

- Food packaging (95–99.9%)
- Laser cutting (99.9–99.999%)
- Electronics/pharma (99.9%+)
- General industry (95–99%)

2. Set Your Purity Requirement

- Membrane: 95–99.9% (cost-effective, compact)
- PSA: 99–99.999% (high purity, critical applications)

3. Calculate Flow & Consumption

- Average demand (SCFH or LPM)
- Peak demand
- Continuous vs. intermittent use
- Plan for growth

4. Check Pressure Needs

- Low pressure: packaging, blanketing, tires
- High pressure: laser cutting, chemical, pipelines

5. Consider Costs & ROI

- Compressor energy use
- Maintenance needs
- Purity vs. operating cost
- Typical payback: 12–36 months

6. Installation Factors

- Floor space available
- Ventilation & temperature control
- Noise concerns
- Skid-mounted or modular options

7. Service & Reliability

- Proven manufacturer
- Local support & spare parts

- Remote monitoring availability

8. Safety Measures

- Oxygen depletion alarm in confined spaces
- Adequate ventilation
- Compliance with ISO/FDA/GMP (if required)

9. Compare Technology

Factor	PSA	Membrane
Purity	Up to 99.999%	95–99.9%
Best for	Laser, pharma, labs	Food, packaging, general
Footprint	Larger	Compact
Maintenance	Moderate	Low
Energy Use	Higher	Lower

✓ Final Tip

Choose a nitrogen generator that matches your actual needs — not just the highest specs. Oversizing on purity or flow can waste money, while undersizing risks downtime.