



Delivering the **Science** of Nitrogen Generation™

HNV Series High Pressure Nitrogen Generator

The Holtec HNV Series High Pressure Nitrogen System is a turnkey solution that allows you to produce nitrogen off-shift, store it at high pressure, and draw from that inventory during peak production. It's a smarter way to control supply, stabilize costs, and size nitrogen generation based on real operating demand.



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Key Benefits:

- **Covers peak nitrogen demand** with smaller equipment by using high-pressure storage to support intermittent and variable usage
- **Stores nitrogen at pressures up to 4,350 psi**, allowing production during off shift hours and use during peak production
- **Designed for long-term reliability** with adsorbers rated for approximately 20 years and valves rated for up to 5 million cycles
- **Offers flexible booster configurations**, with oil free or oil flooded options to meet different pressure, flow, and purity requirements
- **Supports future growth** through modular high-pressure storage that can expand as demand increases
- **Noise-conscious design delivers** below 75 dBA operation on smaller units, while larger models feature sound-reducing enclosures.

Specifications:

Typical Operating Assumptions - N2 Purity of 100 ppm @ 70°F & 115 psig Inlet Pressure ¹											
Model	Max N2 SCF/Day	Max Outlet ² N2 Pressure	Booster HP	Booster Type	Skid Inlet Pressure Range	Skid Inlet	Skid Outlet ³	Length ⁴ (inches)	Width ⁴ (inches)	Height ⁴ (inches)	Weight ⁴ (lbs)
HNV25	2,160	2500 psi	1.5	Oil-Free	75-150 psi	¼" FNPT	¼" FNPT	107"	69"	76"	2100 lbs
HNV45	4,075	2500 psi	3	Oil-Free	75-150 psi	¼" FNPT	¼" FNPT	107"	69"	76"	2125 lbs
HNV60	5,285	2500 psi	5	Oil-Free	75-150 psi	¼" FNPT	¼" FNPT	107"	69"	76"	2294 lbs
HNV170	14,184	5000 psi	7.5	Oil-Flooded	90-150 psi	½" FNPT	¼" OD	121"	78"	106"	4005 lbs
HNV290	25,920	5000 psi	15	Oil-Flooded	115-150 psi	¾" FNPT	¼" OD	121"	78"	96"	5136 lbs
HNV425	38,160	5000 psi	20	Oil-Flooded	75-150 psi	1" FNPT	¼" OD	121"	78"	105"	5362 lbs

Notes:

1. N2 SCF/Day based on given purity, temperature, and inlet pressure. Variation will affect max N2 Flow. Consult factory for performance at other purities, temperatures and/or pressures.
2. Limited to storage pressure ratings.
3. Skid Outlet is high pressure booster outlet.
4. Height and Weight are estimates. Consult factory with height or weight concerns.

Other Specifications:

- Electrical Requirements – Common for N2 Generator: 120-240V / 1PH / 50-60 Hz
- Dependent on Model Size for Booster:
 - i. HNV25 to HNV60: 208-230V / 3PH / 60Hz
 - ii. HNV170 to HNV425: 480V / 3PH / 60Hz
- NEMA Type 1 Enclosure for N2 Generator.
- Sound levels dependent on performance criteria but typical range 75-85dB at 1 meter (±5dB). Consult factory with sound level concerns.
- Suitable for indoor installation. Options available for outdoor installation under cover.
- Printed Copies are not revision controlled.

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At Holtec, we don't just offer standard products; we craft solutions tailored to your unique needs.

Our team partners with you to tackle application challenges head-on, ensuring the right fit every time. When it comes to selecting a nitrogen generation system, let Holtec be the trusted partner you can count on.



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