



Turnkey Solutions For High Pressure Nitrogen

Generating your own nitrogen is a reliable way to reduce facilities costs. However, it is usually more cost-effective to produce your nitrogen at pressures between 75-125 psig and some applications need higher pressure, requiring a nitrogen booster.

For most higher pressure nitrogen applications, there are many factors which must be considered in order to arrive at a successful solution. More equipment than just the booster is often needed, which is typically sold piecemeal for customers to install on site.

Luckily, Holtec's NitroBright™ booster skids provide a standard turnkey solution to provide nitrogen at up to 545 psig. With all equipment installed and piped together, on-site work is reduced to connecting inlet/outlet piping and electrical termination.

Major features:

- Suitable for any application which requires nitrogen pressure up to 545 psig
- Turnkey solution - Installed on its own rigid skid, simplifies installation
- Lubricated piston nitrogen booster - Low maintenance and affordable price. Expected life with 24/7 duty cycle is 5 years before major overhaul. (longer expected for lighter duty)
- CoolFlow™ technology stabilizes booster inlet pressure to reduce mechanical wear.
- 150 psi booster suction tank and 600 psi nitrogen storage tank included.
- Four-stage high pressure nitrogen product filtration included.
- Low pressure N₂ connection for lasers that require a beam purge (cutting unit ventilation).
- Dual N₂ sample systems monitor both low and high pressure nitrogen for O₂ content and pressure
- Designs for multiple boosters available for larger flow applications (tanks sold separately)

CoolFlow™ Technology

Given a limited number of boosters sizes and nitrogen generators available, matching the correct nitrogen generator to the correct booster can sometimes be an obstacle.

Varying demand, fixed booster inlet flow, and details intrinsic to the nitrogen generation process could mean that the nitrogen compression ratio exceeds best case scenario for equipment life.

Holtec's CoolFlow™ technology takes all of the variables into account and ensures a stable inlet pressure to the booster, limiting compression ratio and mechanical wear.



Engineered for capacity, reliability and convenience

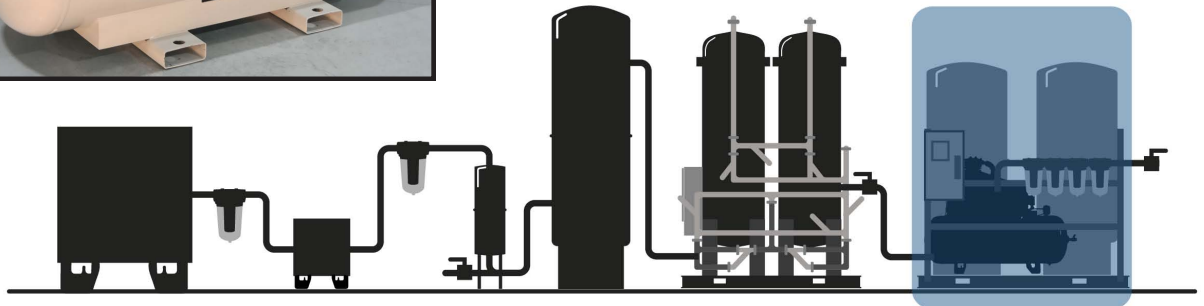
Model Number	L (in)	W (in)	H (in)	Weight (lb)	HP	Nitrogen Flow*
HMP-B10-10	85	68	73	3240	10	34
HMP-B10-15	85	68	73	3250	15	61
HMP-B10-20	85	68	73	3295	20	92
HMP-B10-25	85	68	73	3305	25	106

*Nitrogen flow listed in SCFM, assumes typical booster inlet pressure of 100 psig, and outlet pressure of 545 psig."



Left: HMP-B10-15 turnkey nitrogen booster skid, mounted on receiver tanks with high pressure filtration

Right: Process flow diagram with booster at the end.



Additional specifications

Operating Pressure:

Booster: up to 580 psig; High pressure tank: up to 545 psig

Minimum Ambient Temperature:

41°F (for lower temperatures, consult factory)

Maximum Ambient Temperature:

113 °F (for higher temperatures, consult factory)

Area Classification:

Indoor, Safe/Non-Classified

Enclosure:

Skid: None
Control Panel: IP66

Electrical Requirements:

200/208/230/460/575 V - 3ph - 60Hz

ISO 8573.1 Quality Class:

Class 1.2.1

