

## PRESUS™ N10 Pressure-boosting plant for high-pressure nitrogen supply



The PRESUS™ N10 liquid pump is a modern, cost and energy-efficient unit that delivers nitrogen at high pressure. PRESUS™ N10 doesn't degrade the gas purity when liquid nitrogen is gasified.

**Area of application** The PRESUS™ N10 liquid pump pressure-boosting system is the ideal choice when high-pressure nitrogen or argon is needed. The PRESUS™ N10 pressurizes liquid nitrogen or argon by a hydraulically-operated, slow-moving piston before evaporation. Therefore, the PRESUS™ N10 liquid pump is a cutting-edge technology for industrial processes such as gas assist injection molding, laser-beam cutting, or other processes for which high-pressure gases are necessary.

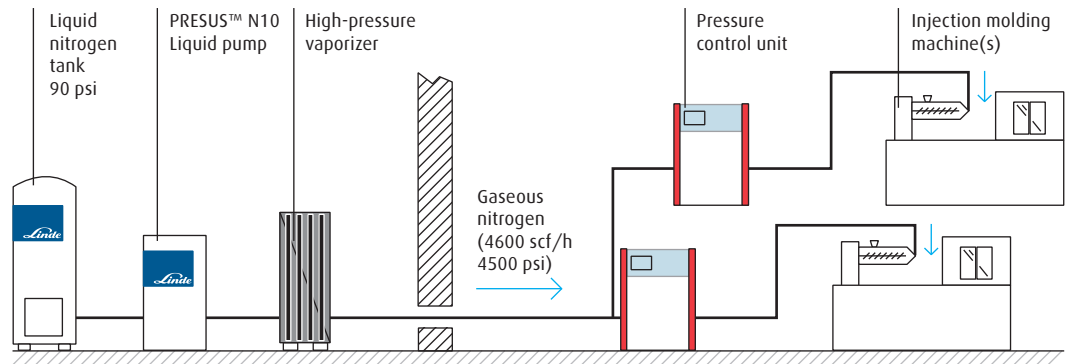
**Operation benefits**

- Low energy consumption, up to 90% less than state-of-the-art gas compression units
- Flow rate at least five times higher than state-of-the-art gas compressors
- Allows for non-continuous operation without heating up liquid nitrogen
- Eliminates risk of nitrogen purity contamination due to oil-free operation
- Ease of operation due to automatic PLC control system

**Installation benefits**

- Small footprint as compared to state-of-the-art compression units for the same capacity and pressure
- Only a small gas buffer required to boost high pressure
- Outdoor installation option saves valuable production plant space

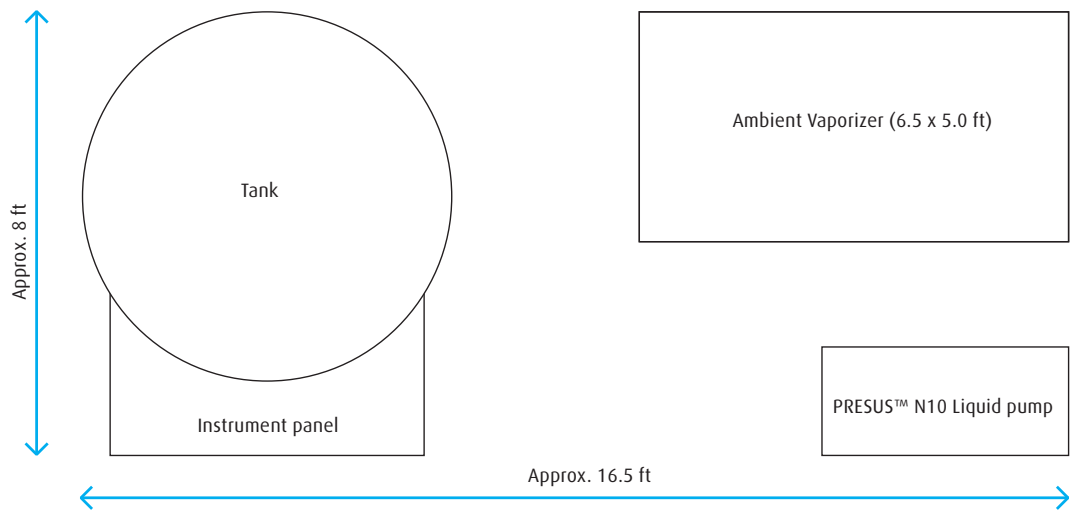
**Schematic of complete set-up for exemplary application of gas assist injection molding**



**Technical specifications**

Medium	Liquid nitrogen or liquid argon
Maximum final pressure	4500 psi
Flow rate	175 - 4600 scf/h (N <sub>2</sub> )
Liquid nitrogen supply pressure	60 - 220 psi, recommended
Power supply	480V AC, 3 phase, 60Hz, 21A, Control panel 24V AC
Required energy	Depends on final pressure and consumption (average consumption: 0.0007 kWh/scf)
Dimensions (H x W x D)	77 x 47 x 26 in.
Weight	Approx. 1450 lbs
Noise level	73 dB(A)

**Layout example**



**Maintenance and service**

- Express and weekend delivery service
- Tele-tank telemetry system available
- 24 hour monitoring available

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