



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



PRESUS™ N10 is a modern, cost-effective and energy-efficient unit that delivers nitrogen at high pressures. PRESUS N10 does not degrade the gas purity when liquid nitrogen is gasified.

### Area of application

The PRESUS N10 pressure-boosting plant is the ideal choice when high-pressure nitrogen or argon is needed. PRESUS N10 pressurises liquid nitrogen or argon by a hydraulically operated, slow-moving piston before evaporation. Therefore, PRESUS N10 is a cutting-edge technology for industrial processes such as gas(-assisted) injection moulding, laser-beam cutting or other processes for which high-pressure gases are necessary.

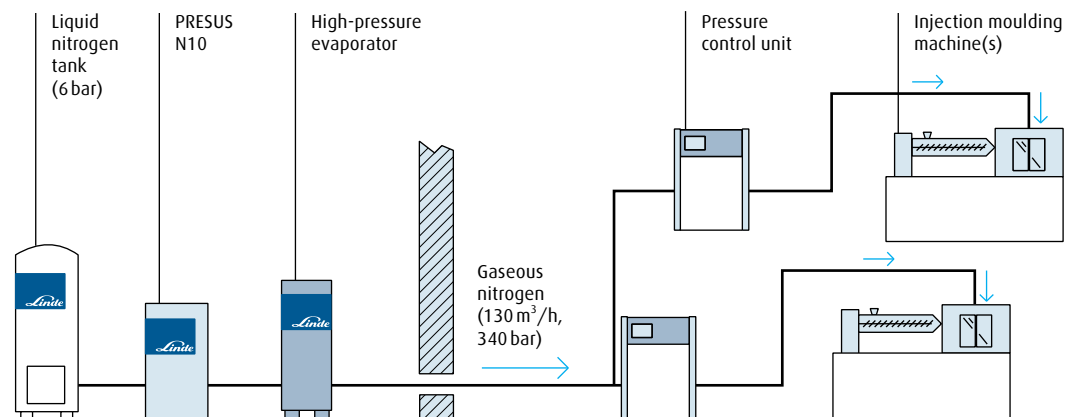
### Operation benefits

- Low energy consumption, up to 90% less than state-of-the-art gas compression units
- Flow rate at least five times higher than with state-of-the-art gas compressors
- Non-continuous operation without heating up of liquid nitrogen
- No degradation of nitrogen purity due to absolutely oil-free operation compared with gas compressors
- Easy to operate by automatic PLC control system

### Installation benefits

- Small footprint compared with state-of-the-art compression units for the same capacity and pressure
- Only a small gas buffer required to boost high pressures
- Outdoor installation is possible and saves space inside the production hall

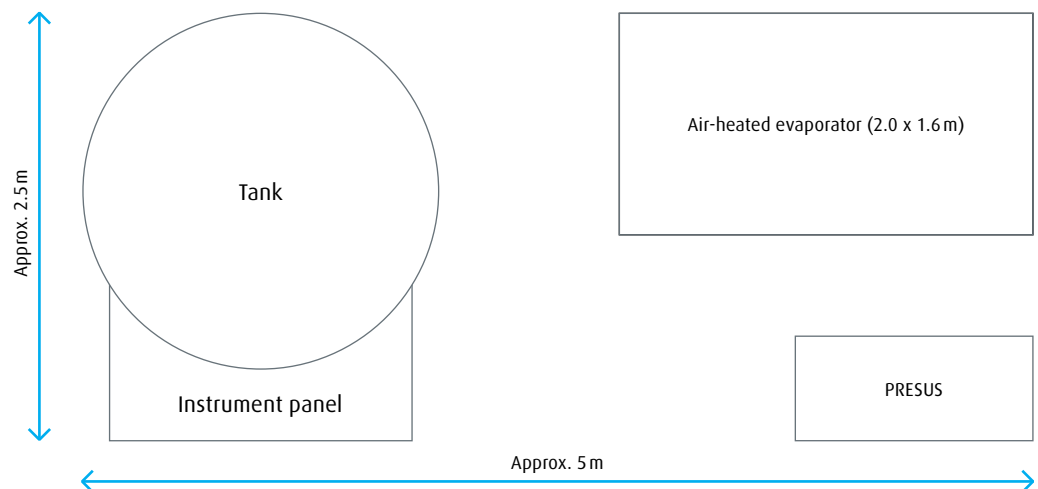
### Schematic of complete set-up for exemplary application of gas injection moulding



### Technical specifications

Medium	Liquid nitrogen or liquid argon
Maximum final pressure	340 bar
Flow rate	5-130 m <sup>3</sup> /h (N <sub>2</sub> )
Liquid nitrogen supply pressure	4-15 bar recommended
Power supply	400 VAC, 50 Hz, 5 x 16 A
Required energy	Depends on final pressure and consumption (average consumption: 25 W/m <sup>3</sup> )
Gas quality	Depends on the liquid supply, 100% oil-free
Dimensions (H x W x D)	1950 x 1200 x 660 mm
Weight	Approx. 660 kg
Noise level	73 dB(A)

### Layout example



### Declarations and certificates

- EU Declaration of Incorporation
- EU Declaration of Conformity, as requested by customer
- Acceptance test certificate 3.1 bulk
- Test report 2.2 bulk

### Maintenance and service

- Express and weekend delivery service
- Period test of electronics according to BGV A3
- LIPROTECT®SP
- ACCURA®/SECCURA® bulk management
- Delivery service PRO

### Linde GmbH

Gases Division, Dr.-Carl-von-Linde-Strasse 6-14, 82049 Pullach, Germany  
 Phone: +49 89 7446 0, info@linde-gas.com, www.linde-gas.com