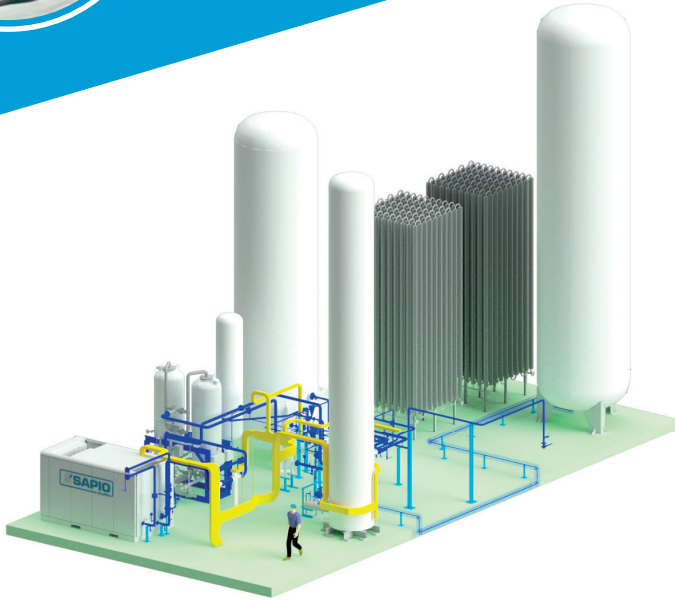




PLUTONE

*Air Separation Unit for
High-purity Nitrogen Production*



Plutone – SAPIO Air Separation Unit for High-purity Nitrogen Production – uses cryogenic technology to obtain nitrogen with purity up to 99.9995% ($N_2 + Ar$) and up to 1 ppm O_2 .

The plant is equipped with a backup cryogenic evaporator to guarantee supply continuity in the event of plant downtime and can be equipped with remote monitoring.

SAPIO provides turnkey plants with standard or custom designs.

PLUSES

- *Reduced installation, commissioning and start-up time*
- *Low maintenance costs*
- *Compact design*
- *Low energy consumption*
- *PLC SIL 2 or SIL 3 redundancy (if required)*



FIELDS OF APPLICATION

- LNG
- Glass and Rubber/plastic
- Foundries and steelworks
- Electronics
- Refineries
- Petrochemical
- Pharmaceutical

LIMITS

- *Temperature:* from -40°C to +55°C
- *Environments:* Marine, industrial, with H₂S traces
- *Humidity:* up to 100%
- *Nitrogen gas capacity:* from 400 Nm³/h to 50000 Nm³/h
- *Liquid nitrogen capacity (LIN):* from 30 up to 5000 Nm³/h

TECHNICAL SUPPORT

SAPIO provides global technical support. It employs specialised technicians to provide immediate service.

Technical support provides:

- *Routine/preventive maintenance programs*
- *Spare part supply*
- *Remote monitoring*
- *Supervision for commissioning and start-up*
- *Practical and theoretic training courses*

CERTIFICATIONS

ASME U-Stamp, PED, Cu-Tr, SELO, PED 2014/68/UE, Machinery Directive 2006/42/EC, NACE