NITROSource

HIGH EFFICIENCY
NITROGEN GAS GENERATORS

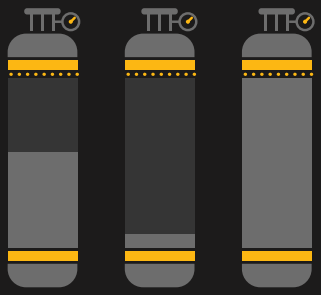


On-site nitrogen gas generation produces high-purity nitrogen on demand, providing many benefits to users, who are often unaware of the hidden potential issues and additional requirements, when using gas cylinders.

DISADVANTAGES OF GAS CYLINDERS

3 CYLINDERS POTENTIALLY RENTED FOR EVERY APPLICATION

- One in use. One empty. One full.



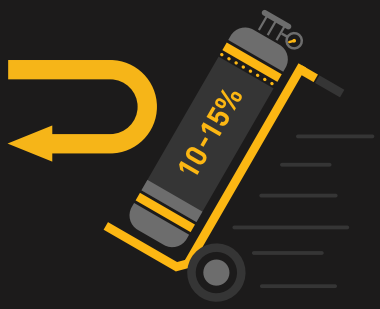
IMPURITIES - SPOILT PROCESSES/PRODUCTS

- Impurities desorb from the cylinder wall below 30 barg, coating equipment and pipework.
- Ruining process or product increasing downtime and cost.



WASTED GAS & COST

- Typically 10 -15% of the gas is sent back unused - wasted money.



INSURANCE AND HSE CONCERNS

- Heavy, manual handling, stored volume of asphyxiant.
- High pressure cylinder need specialist handling equipment – cost of handling equipment, possible injuries, additional risk.

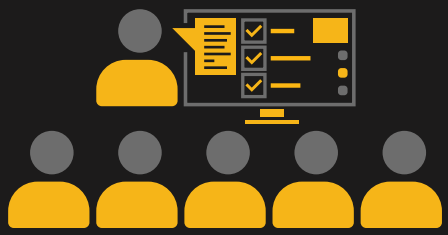


NO INDICATION OF VOLUME REMAINING OR ACTUAL OXYGEN CONTENT

- Gas could run out or spoil process/product or need to repeat task.

INSPECTION REQUIREMENTS

- Time consuming and potential for dangerous errors (safety) At least 15 checks every time a cylinder is changed – time consuming, liability issues.
- Monitoring deliveries and stock-labour intensive.



TRAINING

- Additional cost to certify employees to work with compressed gas cylinders.
- Personnel have to be trained in cylinder handling and regulator inspection every 3 years resulting in additional cost and liability.

REQUIRES SPECIALIST STORAGE

- Additional cost, takes up valuable space.
- Requires maintenance and checking.

