## Covering of oil and chemical tanks with a 775m3/h 99.5% purity nitrogen generator



XITE has successfully commissioned 5 PSA nitrogen generators for a multinational conglomerate. The group is a specialist port developer and 5 of our high capacity nitrogen generators are in operation to provide nitrogen coverage for tanks and gas tanks.

The customer purchased the following specifications of PSA nitrogen equipment from XITE

Technology: PSA technology

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Capacity: 775 m3/h

Purity: 99.5%.

Application. Oil and gas storage tank cover

**Processes** 

In refineries and chemical facilities, explosive hazards can occur if air enters tanks containing volatile and flammable liquids during pumping. A vacuum is created when the

liquid is removed from the tank or when the ambient temperature drops.

In order to professionally protect the tank, its contents and the environment, a low

positive constant N2 gas pressure is maintained in the vapor space of the tank. Nitrogen is the

most commonly used gas to reduce the oxygen content of the vapor space, making it inert

and eliminating the possibility of fire/explosion.

This prevents air and moisture from entering the storage tank. A vacuum may be created

when the liquid is removed from the tank or when the ambient temperature drops. The

blanketing system prevents any vacuum from being created and maintains the required

blanketing pressure. In addition to this, blanket gas pressure, reduces evaporation of

stored product to a negligible amount. The result is not only product savings, but also a

significant reduction in emissions. The quality of the chemical, which is affected by

exposure to moisture or oxygen, can be protected by the nitrogen cover. In addition to these

advantages, the use of nitrogen provides fire protection.

Oil and Gas Capping

Tank filling, also known as oil tank filling, is the process of applying nitrogen to the

voids of storage containers. Although tank covering is used for a variety of reasons, it

typically involves the use of nitrogen to protect the product inside the storage container.

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