

## 350 STPD Nitric Acid Plant for Sale

### Capacity

Design capacity 350 STPD

### Product Concentration

Less than 60%

### Process Technology

Chemico mono high pressure process

### Plant History

1965 – Originally built

1992 – Relocated and rebuilt with major process and equipment upgrade

2010 – Shut down

### Conversion Rate

Ammonia to nitric acid: 0.288

### Major Equipment

- Booster Blower
- Steam Turbine Driven Compressor and Expander
- Heat Exchanger Train:
  - Turbine Gas Heater
  - Burner Chamber Low Pressure Boiler
  - Burner Gas Boiler
  - Platinum Recovery Filter
  - Tail Gas Heater
  - Boiler Feed Water Heater
- Nitric Gas Cooler
- Weak Acid Condenser
- Absorber Tower
- Bleach Air Cooler
- Acid Storage Tanks



### BRIEF PLANT DESCRIPTION

Phoenix Equipment has a used 350 TPD Nitric Acid Plant refurbished in 1992 for sale immediately available. The Nitric Acid plant produces 57% concentrated Nitric Acid (HNO<sub>3</sub>). The plant has been properly mothballed and shutdown, with the compressor train being turned monthly. Plant was operated by a major corporation and is in great condition. All plant documentation regarding operation and maintenance is currently available. This is a great opportunity to relocate a Nitric Acid plant for a fraction of the cost of building a new one and in significantly much less time.

The three main chemical reactions involved in the formation of Nitric Acid are: 1) The oxidation of Ammonia to Nitric Oxide (NO), 2) The Oxidation of Nitric Oxide to Nitrogen Dioxide (NO<sub>2</sub>), and 3) The absorption of Nitrogen Dioxide in water to form Nitric Acid (HNO<sub>3</sub>).

### **For more information contact -**

Edward Zhang, Plant Sales

[plants@phxequip.com](mailto:plants@phxequip.com)

+1 732.520.2187 (Direct Dial)

+1 845.242.3378 (Mobile)

### **To discuss plants you are selling -**

Jesse Spector

[plants@phxequip.com](mailto:plants@phxequip.com)

+1 732.709.7157 (Direct Dial)

+1 908.902.8854 (Mobile)