

# Tailor-made units for chemical industries



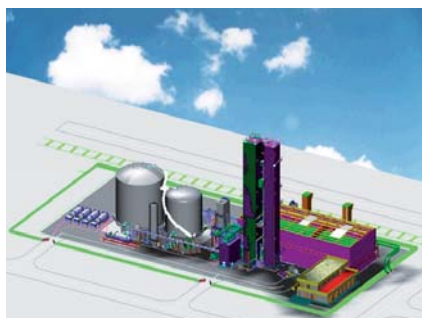
Designed  
on your  
specific  
requirements

Tailor-made units are designed for specific requirements of each customer.

Depending on the market and the associated application, oxygen production capacities can vary from around 1 000 tons/day up to over 5 000 tons/day.

# Tailor-made units for chemical industries

Tailor-made units for chemical industries are customized for the specific requirements of this industry. These units are mainly designed for 3 kinds of applications:



*Equate, Koweit*

1

Application	Oxygen capacity per unit
Ethylene, Oxide	1 000 up to 2 000 MTPD

- Specific needs:
  - Oxygen under high pressure & high purity is required
  - Nitrogen under all pressure and purity is possible
  - Liquid production (LOX, LIN, LAR) can be produced.
- For this application, solutions are Air Separation Units based on patented pumping cycle processes, with only one air compressor. This kind of ASUs are modularized and prefabricated in Air Liquide workshops to a maximum extent.



*Petronas Methanol, 2 500 TPD, Malaysia*

2

Application	Oxygen capacity per unit
Methanol	1 000 up to 5 000 MTPD

- Specific needs:
  - Oxygen under high pressure & high purity is required
  - Small amount of Nitrogen is generally required
  - Liquid production (LOX, LIN, LAR) can be produced
  - Compressor driven by steam turbines
- For this application, solutions are Air Separation Units based on patented mixing column processes, with only one air compressor. This kind of ASUs are modularized and prefabricated in Air Liquide workshops to a maximum extent.



3

Application	Oxygen/Nitrogen capacity per unit
Ammonia ,Urea	1 000 up to 5 000 MTPD O <sub>2</sub> / 1500 up to 8000 MTPD N <sub>2</sub>

- Specific needs:
  - Oxygen under high pressure & high purity is required
  - Large amount of Nitrogen under all pressure and purity is required
  - Liquid production (LOX, LIN, LAR) can be produced.
- For this application, solutions are Air Separation Units based on patented pumping cycle processes, with only one air compressor. This kind of ASUs are modularized and prefabricated in Air Liquide workshops to a maximum extent.

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