CHIMERICAL TECHNOLOGY

Our membrane pilot plants are designed to evaluate key performance parameters under simulated operating conditions.

Pilot plants are constructed as containerized or skid-mounted systems for easy installation and commissioning.

MEMBRANE PILOT PLANTS

Key performance information required from piloting to evaluate membrane system feasibility:

- Achievable flux, recovery and rejection
- Operating pressure and crossflow rates
- Pretreatment system performance
- Membrane staging and configuration
- Permeate / Concentrate stream samples
- Cleaning requirements, chemicals and frequency

Pilot Plants available in 3 standard options:

- 1 m^3/h — Proof of Concept Skid Pilot
- 4 m^3/h — Basic Container Pilot
- 10 m^3/h — Automated Container Pilot

PROOF OF CONCEPT

Compact skid pilot plant operating with 2540 membranes to provide on-site proof of concept pilot studies:

- ❑ Semi Batch operation
- ❑ Flow rate: 1 m^3/h
- ❑ 2 x 2.5" membranes
- ❑ Permeate production: 25 - 60 L/h
- ❑ Operating pressure : max 60 bar
- ❑ Digital - flow, temperature, pressure
- ❑ Manual data capture

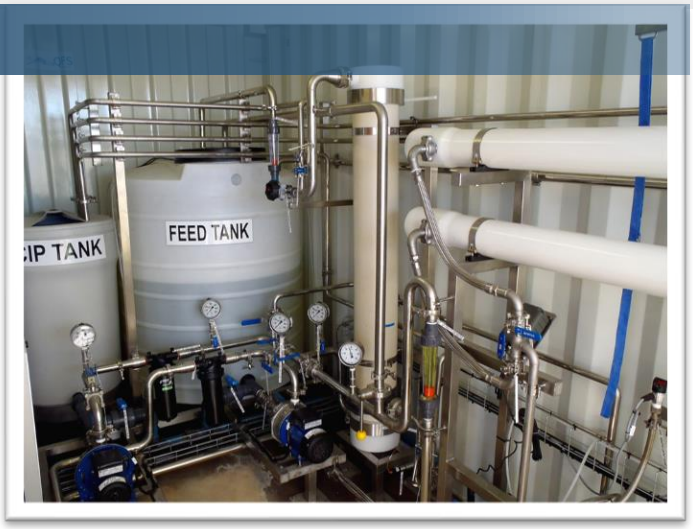
Available in a rental option

Unit A8, Olive Grove Business Park, Somerset West, 7130, South Africa
Tel: +27 10 500 0380 / info@chimericaltech.com / www.chimericaltech.com

MEMBRANE PILOT PLANTS

CHIMERICAL TECHNOLOGY

BASIC CONTAINER PILOT



Basic container pilot plant utilizes 4'' membranes to achieve a higher permeate production rate for downstream evaluation:

- ❑ Semi-batch or Continuous operation
- ❑ Flow rate: 4 m^3/h
- ❑ Permeate production: 400 - 1000 L/h
- ❑ Operating pressure : max 60 bar
- ❑ 6 x 4'' membranes (1 stage)
- ❑ Digital – flow, temperature, pressure
- ❑ VSD flow control
- ❑ UF, NF and CIP sections
- ❑ Manual valves
- ❑ HMI with data capture

AUTOMATED CONTAINER PILOT PLANT

Large pilot plant utilizing 8'' membranes (same as full scale plants) representative of operating membrane performance and production:

- ❑ Continuous operation
- ❑ Flow rate: 10 m^3/h
- ❑ Permeate production: 3 – 8 m^3/h
- ❑ Operating pressure : max 60 bar
- ❑ 6 x 8'' membranes (up to 36 membranes option)
- ❑ Digital – flow, temperature, pressure
- ❑ VSD flow control
- ❑ UF, NF and CIP sections
- ❑ Actuated valves
- ❑ Full automation with PLC, HMI and data capture

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