

# PILOT PLANT

PERFORMANCE . QUALITY . SAFETY

# PILOT PLANTS

Chandler Engineering offers custom designs and solutions to fully scalable pilot plants. We provide solutions across various industries for Chemical, Pharmaceutical, Oil and Gas, Renewable Energy, and Food and Beverage.

## BENCH, RESEARCH AND PILOT SCALE PROCESSES FOR

- CO<sub>2</sub> Recovery and Sequestration
- Refinery Applications
- Biofuels
- Production Simulation
- Small Batch Chemical Manufacturers
- Chemical Processes
- Custom Engineered Projects



## METHANE DEHYDRATION UNIT

### Precision Testing of Molecular Sieve Performance

Chandler Engineering's methane dehydration unit is engineered to test the effectiveness of molecular sieve materials in removing moisture from methane gas. Its modular design features five integrated sections: gas inlet, compression, saturation, dehydration, and analysis; providing a controlled environment for accurate and repeatable testing. This unit is ideal for R&D labs and production environments requiring reliable performance data on dehydration media under realistic operating conditions.

Key Specifications:

Saturation Range	0 -2500ppmV @ 1bar, 60°C
Operating Pressure	90 barg
Operating Temperature	60°C
Regeneration Temperature	300°C
Gas Flow Rate	0.5-2.0 m3/hr



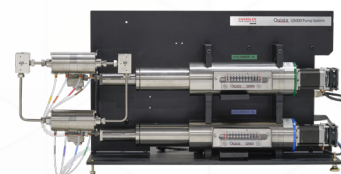
# PRECISION METERING PUMPS FOR PILOT PLANT APPLICATIONS

**QUIZIX PRECISION PUMPS** are the industry standard for precision delivery of fluids and gases for bench scale and pilot plant applications. Capable of handling fluids, slurries, pastes and gases, these positive displacement pumps provide pulse-free continuous flow at extremely accurate flow rates, pressures or constant volume operating modes.

Operating from the proprietary PumpWorks software, there are 14 standard modes of operation and a sequencer function for automated response to internal or external system functions. PumpWorks easily interfaces to other Data Acquisition and Control programs via an embedded Open Platform Communications (OPC) server. Also included are ramping procedures by time, pressure, flow and volume.

**Q5000 SERIES** Ultimate precision for metering of reactant fluids, slurries and pastes

- Flow Rates from Sub-Nanoliter to 60 ml/minute
- Pressures to 20,000 psi (1379 bar)
- Temperature capability to 285°C
- Multiple options for wetted materials
- Deliver liquids, slurries and pastes



**Q6000 SERIES** for high flow, large volumes and gas flows

- Flow Rates from Sub-Microliter to 400 ml/min
- Pressures to 30,000 psi (2068 bar)
- Temperature capability to 285°C
- Multiple options for wetted materials
- Deliver liquids, slurries and pastes
- Batch flow or continuous flow systems



**QX SERIES** Compact dual cylinders for bench and small scale research applications

- Flow Rates from Sub-Microliter to 500 ml/min
- Benchtop or small scale reactor feed
- Ambient temperatures to 50°C
- Precise addition of liquids and slurries





**Quizix**®

At Chandler Engineering, we are united by our commitment to each other and the shared values that define our work. We promote unity, honor, and belonging within our company and extend that care to the communities we serve. Our dedication to innovation and excellence in energy solutions is driven by our desire to leave the world a better place for our families and future generations.



 [chandler.sales@ametek.com](mailto:chandler.sales@ametek.com)

 [chandler.service@ametek.com](mailto:chandler.service@ametek.com)

 [www.chandlereng.com](http://www.chandlereng.com)

**Headquarters**

2001 North Indianwood Avenue  
Broken Arrow, OK 74012  
Phone: +1 918 250 7200  
Email: [chandler.sales@ametek.com](mailto:chandler.sales@ametek.com)

**Houston Sales and Services**

4903 W. Sam Houston Parkway N.  
Suite A-400  
Houston, TX 77041  
Phone: +1 713 466 4900

**AMETEK Singapore Pte. Ltd.**

**(Asia Sales)**  
Phone: +65 6484 2388  
Email: [chandler.asia@ametek.com](mailto:chandler.asia@ametek.com)

**Chandler Australia**

Phone: +65 6484 2388  
Email: [chandler.australia@ametek.com](mailto:chandler.australia@ametek.com)

**AMETEK Chandler Engineering**

U.K. (EU, ME, Africa)  
Phone: +44 (0) 1224 725222  
Email: [chandler.uk@ametek.com](mailto:chandler.uk@ametek.com)

**AMETEK Brazil**

Phone: +55 19 3825 8904  
Email: [chandler.brazil@ametek.com](mailto:chandler.brazil@ametek.com)

**Chengdu Industrial Trading &  
Supply Co. (China)**

Phone: +86 28 8616 2896  
or +86 28 8616 2897  
Email: [chandler.china@ametek.com](mailto:chandler.china@ametek.com)

**AMETEK UAE**

Phone: +971 52 645 3606  
Email: [chandler.uae@ametek.com](mailto:chandler.uae@ametek.com)

360008 Rev - 2 - 2025



Continuous product development may make it necessary to change product details without notice.

This communication contains the following trademarks and/or registered trademarks: AMETEK and CHANDLER ENGINEERING. These trademarks or registered trademarks and stylized logos are all owned by AMETEK, Inc. All other company, product and service names and logos are trademarks or service marks of their respective owners.