Rotodynamic Pumps

What is the test about?

At CIT, we follow the ANSI/HI 14.6-2022 standard (also known as the “customer acceptance test”) to evaluate the hydraulic performance of pumps. This ensures accurate and reliable measurements of critical metrics such as flow rate, head, efficiency, and power consumption. Our testing verifies that your pumps meet their design specifications and performance guarantees, providing the data manufacturers need to assure customers of product quality.

Why get tested?

Partnering with us, as a third-party testing facility, to test your pumps to ANSI/HI 14.6-2022 standards compliance offers significant advantages for manufacturers:

- **Enhance Market Credibility:** Showcase your commitment to quality with certification that aligns your products with trusted, industry-recognized standards.
- **Stand Out from Competitors:** Verified performance sets your pumps apart in a crowded market, giving you a clear competitive edge.
- **Build Customer Trust:** testing provides end-users with confidence in the reliability and performance of your products, strengthening your brand reputation.
- **Expand Market Opportunities:** Meet regulatory requirements and gain access to markets that demand validated, third-party tested performance data.

What is needed?

To schedule your pump tests, please notify us at least two weeks in advance. You can book your test by emailing the lab manager at **cit.office@mail.fresnostate.edu** or calling us at **559-278-2066**.

Before we begin testing, we will need some additional information about your pump. Please provide the following details:

- Pump specifications (including pump curve, maximum flow rate, and head). Please refer to the ANSI/HI 14.6-2022 standard for full specifications of manufacturer data requirements.
- The size and diameter of the connecting shaft.
- The coupler size for the shaft.
- The motor size required to run the pump (if not provided by you).

Please expect to have a phone call (or other communication) with the chief technician to discuss and clarify the technical specifications of your pump.

Please Note: We do not cover the Mechanical test and the NPSH test as specified in ANSI/HI 14.6.

What to expect?

Here's what you can expect in the performance test report for your pump:

- **Head/Flow Curve:** Acceptance criteria are clearly marked with intersecting vertical (head) and horizontal (flow) lines at the guarantee point. The curve must touch or cross these lines to meet criteria.
- **Pump Data:** Includes model, impeller details, nozzle sizes, speed, and serial number.
- **Test Conditions:** Details such as acceptance grade, test liquid temperature, and available NPSH.
- **Test Results:** Both uncorrected and corrected data for flow, head, and power.
- **Motor Data:** Information about the test or job motor, if applicable.
- **Witness Details:** Names of personnel conducting or witnessing the test

What is the turnaround time?

Testing time is usually ½ day per pump; when there are no technical obstacles to installing the pump in our test harness and when the customer provides the motor. However, technical problems do occur and may extend testing times. For example, if your pump's mounting is incompatible with our test harness, we will need to fabricate additional mounting hardware. We cannot guarantee that this fabrication will occur in a rapid manner. Please plan to have a technician from your organization speak with our Chief Technician to verify the technical details of the testing setup.

What is the pricing structure?

Our pricing structure provides transparent rates for testing services, ensuring you receive the highest quality assessments for your drip emitters.

- Price: $2000 per test
- Payment terms:
    - ➢ May require a down payment, please reach out to the lab manager for more details.
    - ➢ For international customers, a 50% advanced payment is required.
    - ➢ The full payment is required prior to the delivery of the test report.

What is the billing and payment procedure?

After speaking with the lab manager, you will receive an email summarizing what was agreed upon. Once you validate it, we will send you a final quote with the following details:

- Amount due prior to testing
- Amount due when testing is completed
- Payment instructions:

  You may choose to pay by check, wire transfer, or card

➢ **By Check:**

Total Due and Payable to:
California State University, Fresno Foundation
% Center for Irrigation Technology
4910 N. Chestnut Ave.
Fresno, CA 93726

➢ **Wire transfer:**

Electronic Funds Transfer Information:
California State University, Fresno Foundation
Citibank (West) FSB
6025 N. First Street
Fresno, CA 93710
800-756-7047
Routing: 321171184
A/C No: 200634046
SWIFT: CITIUS33

➢ **Card payment:**

Follow the link to our eMarket page, and select LAB TESTS category:
https://commerce.cashnet.com/fresnoem_cit
Please ensure you enter the correct agreed-upon price before finalizing the payment.
Refunds may take several weeks to process.