

Flow Measurement Systems

Educational Training Equipment for the 21st Century

Bulletin 698-2

H-6982 Multi-Pump Test Bench

Purpose

The Hampden **MODEL H-6982** Multi-Pump Test Bench provides a hands-on introduction to pump design and application. The student will operate each of the test pumps in various modes using the provided instrumentation for flow, speed, head and torque measurements.

Specifications

Base:

- Constructed of 2" square mechanical steel tubing with four swivel casters, two with brakes. Finished in instrument tan texture. Access ventilated doors with full piano hinged and quick-disconnect fasteners.

Control Panel:

- Enclosure is 14 gauge code gauge steel finished in instrument tan texture. The panel is 11 gauge furniture stock steel finished in instrument white enamel.

Control Panel Instruments:

- Tachometer
- Digital indicator on panel
- Photo pickup on shunt wound DC motor

Gauges:

- Delivery, suction and flow

DC Motor Speed Drive:

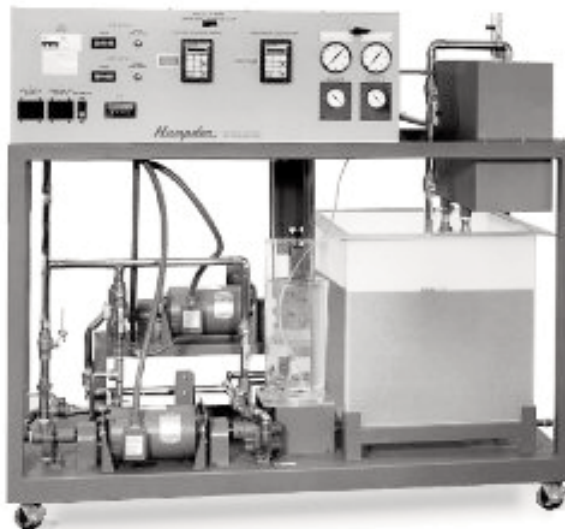
- Variable with speed ratio of 50:1, regulation of 2% or better and speed control potentiometer. On-off switch and pilot light provided.

Valves:

Throttling, Control and Dump.

Torque Indicator:

- Mechanical with clear face protector
- Torque arm
- Counter balance weight and linkage.



Manifold:

4-port, ports are controlled via globe or gate valve.

DC Shunt Motor:

- Trunnion frame mounted, sized for the various pumps supplied.
- Provided is a toothed drive pulley system designed to drive one of four pumps.
- The motor is controlled by the DC motor speed drive.

Tanks:

- One calibrated volumetric measuring tank with dump valve.
- One sump tank with drain ball valve and system fill valve.
- One channel with insertable notches.

Pumps:

- Centrifugal pump
- Vane pump
- Gear pump
- Piston pump
- Wetted parts are non-ferrous for corrosion protection.

Protection:

- Main circuit breaker is a ground fault interrupter type.

Nomenclature:

- Brown white-core engraving stock secured to the panel with stainless steel self-tapping screws.

Accessories:

- 1 - Vernier hook-gauge
- 1 - Weir, "V" notch
- 1 - Operating instruction manual

Optional Equipment

MODEL H-6982-10 Diaphragm Pump

MODEL H-6982-20 Axial Pump

MODEL H-6982-30 Turbine Pump

Services Required

120V AC - 1 ϕ - 60 Hz

All Hampden units are available for operation at any voltage or frequency

Hampden
ENGINEERING CORPORATION

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