



**Description:** The hydraulics bench is a robust, bench-mounted system constructed around a sturdy framework, designed for comprehensive hydraulic experiments and training. It is equipped with essential features for efficient water management and data logging.

**Key Features:**

- **Construction:** Sturdy framework with lockable castor wheels for mobility and stability.
- **Water Storage Tank:** 75-liter capacity tank mounted on the framework, supplying water to the electrically operated external pump.
- **Pump:** Centrifugal pump with a 0.365 kW, single-phase, 230V AC motor. Standard flow rate of approximately 30 L/m.
- **Controls:** On/off switch and safety cut-out control on the front of the frame.
- **Electrical Outputs:** Twin 240V waterproof electrical outputs.
- **Data Logger:**
  - **Channels:** 21-channel data logger with 48 screw terminals, push-on edge connections, 20 external channels, and 1 internal channel (mains voltage).
  - **USB Connectivity:** Includes a USB cable for PC connection; can be used via a USB splitter with up to 3 loggers.
  - **Inputs:**
    - Differential voltage inputs ( $\pm 100$  mV DC)
    - Eight single-ended DC voltage inputs ( $\pm 8$ V)
    - Four logic or frequency inputs
  - **Power Supplies:** Onboard 12V DC,  $\pm 5$ V DC (optional  $\pm 15$ V DC power supplies).
  - **Software:** HDL software with curve-fitting calibration facility, allowing manual input and recording of transducer outputs. Supports linear and polynomial fits and stores results automatically. Includes characteristic curves for Type K and Type T thermocouples.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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**Additional Features:**

- **Water System:** Closed system for re-use of water.
- **Training Modules Included:**
  1. Free & Forced Vortices
  2. Bernoulli's Theorem Demonstration
  3. Orifice & Venturi Flow Measurement
  4. Pressure Loss in Bends & Fittings
  5. Center of Pressure Module
  6. Impact of a Jet Module
  7. Osborne Reynolds Demonstration
  8. Flow Meter Module
  9. Series and Parallel Pump Upgrade
  10. Pressure and Throttle Module

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