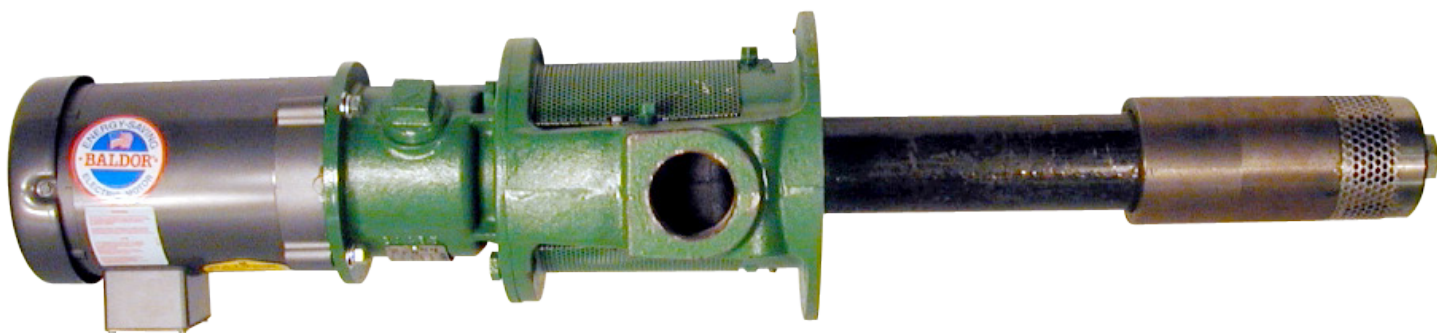


# TURBINE PUMP LEARNING SYSTEM

95-PM1-B



The Turbine Pump Learning System (95-PM1-B) explores an exceptionally versatile pump that's used in many environments, such as water treatment plants, paper mills, ski resorts, farms, and airports. When integrated with the 950-PM1, the 95-PM1-B allows learners to study different types of turbine pumps, their functions and applications, and their flow/pressure characteristics. The 95-PM1-B also explains how to install, maintain, troubleshoot, and disassemble a turbine pump.

The 95-PM1-B includes an industrial-grade turbine pump (cast iron housing, flange mount, stuffing box-type seal) and piping network. These industrial-grade components form a durable learning system that provides learners with real-world experience and skills.

After completing the 95-PM1-B, Learners can proceed to additional pumps like the Diaphragm Pump (95-PM1-C) and Peristaltic Pump (95-PM1-D). Air-operated diaphragm pumps are used to transfer fluids that are too viscous, corrosive, abrasive, or hot for other types of pumps, and peristaltic pumps, also known as tubing pumps, are used to transfer fluids that cannot come in contact with the working parts of the pump, either to avoid contamination of the fluid or because the fluid is too corrosive.

## TECHNICAL DATA

### Turbine Transfer Pump:

- Cast iron housing
- Flange mounting
- C-face connection to motor
- Stuffing box seal
- Max head: 5.5 ft
- Flow: 9 gpm @ 4 ft head, 1725 rpm

### Piping Network:

- Connection to suction and pressure lines
- PVC construction

### B18612 Student Curriculum

### Additional Required Items:

- See <http://www.amatrol.com/support/computer-requirements>
- 950-PM1 (Centrifugal Pump Learning System)

## Learning Topics:

- Installation
- Types of Vertical Turbine Pumps
- Operation
- Application Selection
- Maintenance
- Troubleshooting
- Flow/Pressure Characteristics
- Flow Rate Adjustment
- Disassembly and Inspection

CURRICULUM IS THE KEY TO LEARNING

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