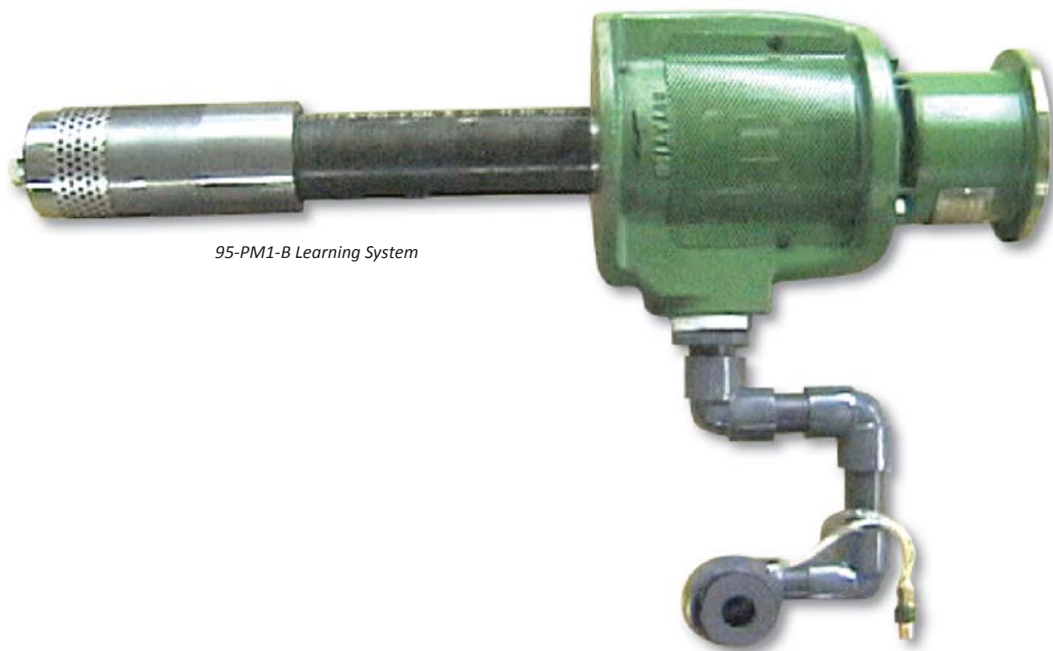


# Turbine Pump Learning System

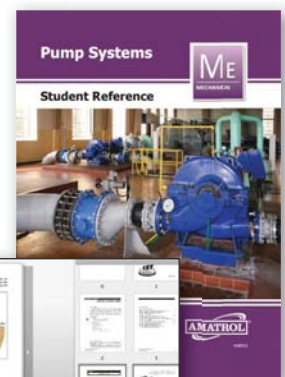
95-PM1-B

ME

MECHANICAL



95-PM1-B Learning System



Optional Online eBook and Student Reference Guide

## Learning Topics:

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

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 Centrifugal Pump Learning System (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.



## Technical Data

Complete technical specifications available upon request.

### 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

### Student Curriculum (B18612)

### Student Reference (H19713)

### Optional Online eBook (B18612)

### Additional Requirements:

- Centrifugal Pump Learning System (950-PM1)

### Utilities

- Drawn from 950-PM1

## Hands-On Skills Turbine Pump in a Classroom Environment

The 95-PM1-B will teach learners invaluable skills related to the operation, application and flow/pressure function of turbine pumps. These skills include vertical turbine pump installation, how to start up and operate a vertical turbine pump, how to measure and graph the flow/pressure characteristics of a vertical turbine lineshaft pump. It will also teach learners how to determine the size of a vertical turbine pump given nameplate data, and how to troubleshoot a vertical turbine pump, and disassemble and inspect a vertical turbine pump.



95-PM1-B Learning System

## Basic to Advanced Turbine Pump Curriculum Prepares Learners for a Job on Day One

The Turbine Pump curriculum will show learners how to install, maintain, troubleshoot, and disassemble a turbine pump. It will also advance learners' understanding of the varying uses and types of turbine pumps, exploring their functions and applications, and their flow/pressure characteristics. More specifically, learners will study the function and application of a turbine pump, the installation of a vertical turbine lineshaft pump, the flow/pressure characteristics of a vertical turbine pump, how to specify a vertical turbine pump for an application, how to maintain a vertical turbine pump, and more. As an online option to the Learning Activity Packets (LAPs) Amatrol's eBooks look like a real book and allow users to flip between pages with ease.



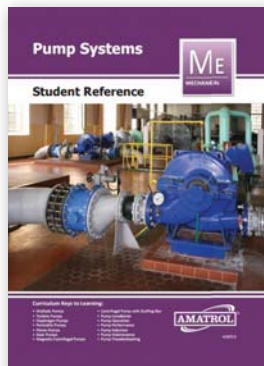
Optional Online eBook

## Additional Add-On Pumps Available

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.



95-PM1-C Learning System



## Student Reference Guide

A sample copy of the Pump Learning System Student Reference Guide is included with the learning system. Sourced from the multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book. If you would like to inquire about purchasing additional Student Reference Guides for your program, contact your local Amatrol Representative for more information.

