

# INSTRUCTION MANUAL *PD1* *ELECTRIC*



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# **WARNING**

**DO NOT ATTEMPT TO OPERATE THIS  
EQUIPMENT WITHOUT A THOROUGH  
UNDERSTANDING OF THE OPERATING,  
MAINTENANCE AND SAFETY  
CONSIDERATIONS CONTAINED IN THIS  
TECHNICAL MANUAL**

**TO PREVENT DAMAGE TO  
EQUIPMENT AND/ OR INJURY TO YOURSELF  
OR OTHER PERSONNEL, THESE  
INSTRUCTIONS MUST BE  
FOLLOWED CAREFULLY.**

**A COPY OF THIS MANUAL SHALL ACCOMPANY THE UNIT AT ALL TIMES.**

**FOR PARTS AND SERVICE PLEASE  
CALL OUR TOLL FREE NUMBER**

**PARTS : 800-553-3414 Ext. 14**

**SERVICE : 800-553-3414 Ext. 19**

To help us assist you, please have equipment Model  
And Serial Number available at time or inquiry.

The Model and Serial Number are available on the  
equipment Data tag attached to the frame of the equipment.

**Record the following information on this  
equipment below:**

**Model No.** \_\_\_\_\_

**Serial No.** \_\_\_\_\_

**Date Purchased** \_\_\_\_\_

## New Equipment Warranty

Seller expressly warrants that its new equipment will be fit and sufficient for the purpose(s) intended, and free from defects in material and workmanship. This warranty shall remain in effect for a period of six months from date on which the equipment is first put to intended use, with first date of use not being later than three months from date of shipment. This warranty shall apply only to equipment in normal use and service, and shall not apply to equipment which has been subjected to misuse, negligence or accident, or otherwise not used in accordance with Seller's recommendations or specifications regarding operation and/or maintenance.

All items found defective as to material, workmanship or manufacture, in the sole judgement of Allentown Equipment Div., will be replaced or repaired free of charge, F.O.B. Allentown, Pennsylvania. This warranty does not cover the cost of labor in replacement or transportation.

Certain parts of the equipment in contact with mortar, concrete or refractory mixture, such as rotors, wear plates, seals, hoses, nozzles, tips, etc., are subject to normal wear associated with abrasive materials. Such normal wear is not covered by this warranty, and Allentown Equipment Div. shall not be liable for consequential damages, expenses, losses, or delays of any kind incidental to any failure of equipment. Under no circumstances shall Seller's liability exceed the price for the equipment or parts for which liability is claimed.

Seller makes no warranty of its outside purchased components such as engines, air motors, hydraulic pumps, wheels, tires, etc., as the same are subject to the warranties of their respective manufacturers.

There is no implied warranty of marketability or fitness for particular performances.

Any attempt to remedy a claimed defect by persons or entities not expressly authorized to perform such work by Seller shall void this warranty.

**Allentown™**  
EQUIPMENT DIV.

421 Schantz Road  
Allentown, PA 18104  
800-553-3414  
610-398-0451 Fax  
610-398-1934

## **OPERATOR QUALIFICATIONS**

**Before operation, the operator must be thoroughly familiar with the equipment and it's operation so that he can operate it in a SAFE manner. His eligibility to operate the equipment shall be based on the following qualifications:**

- 1. Equipment must be operated only by experienced operators, or trainees under the direct supervision of an experienced operator. Unauthorized personnel must not be permitted to assist or remain in the immediate vicinity of the unit while it is in operation or during the performance of any maintenance, inspection, cleaning, repair, or start up operations.**
- 2. Individuals who are not familiar with operating instructions, received on-the- job supervised training, and are not familiar with the signal codes used at the construction site must not operate equipment.**
- 3. Individuals who cannot comprehend the signs, notices, and operating instructions that are a part of the job must not operate equipment.**
- 4. Equipment must not be operated by anyone under the age of 21 years.**
- 5. Equipment must not be operated by anyone with seriously defective eyesight or hearing, and physical or mental impairment (such as epilepsy, heart disease, or progressive neuro-muscular deterioration), physical and mental qualification must be verified by a physical examination at least annually.**
- 6. Individuals under the influence of alcohol or drugs shall not operate this equipment.**
- 7. Equipment must not be operated while operator is eating, drinking, reading, or is more than six feet distance from the controls.**
- 8. An operator who has asked to be relieved because he feels physically or mentally unfit must not operate equipment.**

## **RESPONSIBILITY OF EMPLOYERS AND OWNERS**

**As an owner or employer using this equipment, it is your responsibility to ensure that the operator is qualified, has read this manual, and has received training in the safe operation of the Predampener, and the safe work practices for the job to be accomplished. It is also your responsibility to provide for regularly scheduled preventative maintenance and repair of the Predampener by trained repair personnel using only parts supplied by Allentown Equipment Divison. Modification of any part of this Predampener can create a new safety hazard. If the Predampener is modified or rebuilt it must be done under the direction of Allentown Equipment Div. Factory. No field modification of the Predampener is permitted, unless authorized in writing by Allentown Equipment Div.**

**It is a further responsibility of the owner or employer to train the operating personnel in all the specific requirements, government regulations, safety regulations, safety regulation of the product liability insurance company, precaution, and work hazards which exist in a work situation and ensure that all involved take the necessary precaution and safety measures. Only a trained and qualified operator who abides by safe work practices can avoid accidents.**

## **SAFETY CONSIDERATIONS**

Any person assigned to operate, troubleshoot, maintain or repair the Predampener must first be thoroughly familiar with the operating instruction manual. Your safety and the safety of others are at all times very important. To work safely, you must understand the job you do. If in doubt use extreme caution and obtain assistance from trained personnel.

During operation, troubleshooting or repair, you must observe the following rules:

1. ***DO NOT*** lift the feed auger grille while the motor is operating. 2. ***DO NOT*** place hands or any object into the feed auger hopper when in operation.
3. ***DO NOT*** perform maintenance on the Predampener when it is in operation.
4. ***DO NOT*** open the mixing auger rubber trough or feed hopper clean-out door unless the machine is stopped and the power is off. 5. Keep all guards closed and in place.
6. Keep hands and clothing away from all moving parts. 7. Operator and laborers should wear a hard hat, safety glasses and respirator when operating equipment.

## **PREPARING TO OPERATE**

The ALLENTOWN EQUIPMENT Predampener is designed to predampen bagged cementitious materials before introducing them into a pneumatic gun. This manual describes the operation, maintenance, and safety consideration that must be followed. Close attention to these details by the operator, laborers, and maintenance personnel is necessary to assure a minimum of problems while striving for maximum productivity and safety.

## **OPERATION - DIESEL UNIT**

- 1. Prior to starting up the engine, check the fuel and oil levels. Check to make sure the valves which operate the 'Feed Auger' and 'Mixing Conveyor' are in the off position.**
- 2. Turn on the Diesel engine according to the engine operator's manual, and bring it up to the correct speed.**
- 3. Connect a 1/2" water supply line to the water spray bar. Make sure the ball valve located after the claw coupler is in the Off position.**
- 4. Start the 9" Mixing Conveyor and leave it running.**
- 5. Start the 6" Feed Auger and adjust the speed using the flow control valve located under the Control Panel.**
- 6. Open the 1/2" ball valve on the water spray bar, and adjust each needle valve located above each of the (3) nozzles to the desired dampening and material volume flow. NOTE: The water will turn on when the Control valve for the Feed Auger is turned on. It will also turn off when the Auger is turned off.**
- 7. When stopping the unit, try to maintain all these settings for future use.**

## **WATER SPRAY BAR**

**When predampening castable materials a consistent water pressure is required to maintain a uniform dampened material. The water spray bar with misting nozzles will require a constant water pressure of 60 PSI.**

**In areas where water pressure is not consistent, it is advisable to install a water booster pump to maintain water line pressure.**

**In areas where freezing temperatures occur, the water spray bar when not in use has to be drained completely to make sure damage is not done to the water line, check valves, spray nozzles and solenoid valve.**

## **PREDAMPENER CLEAN-UP / DAILY MAINTENANCE**

- 1. With the mixing auger running, empty all the material from the feed hopper. 2. Rinse the material hopper and feed auger of material and flush from trough. 3. After the material hopper and feed auger are clean, stop the mixing auger and feed auger.**
- 4. Disconnect the predampener power source.**
- 5. Open the mixing auger rubber drop belt and rinse all material from the auger and drop belt.**
- 6. Grease all the flanged bearings, which include the top and lower bearing on the main auger, and each bearing on the feed auger.**