

# AIR PREHEATER CLEANING

## Pneumatic Systems

**GD**  
**GARDNER DENVER**  
WATER JETTING  
SYSTEMS, INC.

## Restore Heat Efficiency Economically

Gardner Denver Water Jetting Systems proudly offers a rugged, dependable pneumatic air preheater cleaning system geared to clean clogged and encrusted air preheater baskets quickly, while restoring the function to design. The cost of this system is recouped very quickly when one considers the time and manpower saved by using these automated systems, versus using old-fashioned high-volume washing and manual jet-lancing methods. Power plants realize savings by operating with cleaner rotors, and with regenerative air preheaters restored to optimum efficiency. These versatile accessories work well with the Partek line of pumps and the Li-qua-Blaster line of water jetting units.

Gardner Denver has been designing and manufacturing water-jetting equipment with one goal in mind—to give our customers cost-effective, rugged, dependable solutions to their cleaning problems.

### Reliable Pneumatics

The PCT-2000-P Pneumatic Air Preheater Cleaner is an extremely cost-effective preheater cleaner tool that utilizes air logic components for reliable service.

The controls of the PCT-2000-P Pneumatic Air Preheater Cleaner are fairly simple. One usually determines rotation speed, then adjusts the timer for just a little over one rotation, then set the second timer to offset the nozzle manifold after each rotation.

The Pneumatic Air Preheater Cleaner is adaptable to various flows and pressures, depending on the requirements of the user. The PCT-2000-P is designed to operate at 10,000 PSI with flows from 100 to 300 GPM. It typically consists of a power head drive box assembly, a control console, a nozzle manifold, and a rack and pinion type chain drive with a chain anchor and tensioner that mounts on cross beams with either stationary or adjustable mounting brackets. The system travels on four-inch box beams.



*In action, the dark basket portions are freshly clean, the caked, clogged basket portions are pale in color.*

This system uses a manifold and power head drive box, and can be set up to clean both sides of a basket simultaneously for maximum efficiency.

Every angle has been considered in the design of this air preheater cleaner system. Gardner Denver Water Jetting Systems also offers complete technical support and training to assure productivity. Your Gardner Denver sales representative can help you determine the correct system for your application.

# PREHEATER CLEANERS

## Built-in Quality

All Gardner Denver Water Jetting Systems Preheater Cleaner Units are quality constructed and designed to be rugged and easy to use.

Features common to most units include:

- ◆ Power head movement control.
- ◆ Beam mounts.
- ◆ Permits dual-side simultaneous basket cleaning operation.
- ◆ Limits operator exposure to preheater cleaning effluent.
- ◆ When properly used, operator is completely removed from high pressure jets.
- ◆ Simple to operate. Enter measurements of rotor, timing for rotation and index increments of cleaning nozzles.
- ◆ Easy to store, transport and set-up.
- ◆ Restores preheater to "like new" cost-efficient operation.



*Closeup of a manifold assembly showing how it walks along the mounting bracket. The simple 40 pitch "bicycle style" chain assists in indexing cleaning operation.*

## Model PCT-2000-P

3 - 10 KPSI

Pneumatic Controlled  
Dual Drive Unit

### Control Console

- ◆ Re-set switch.
- ◆ Movement timer (.3 to 10 seconds).
- ◆ Dwell timer (.3 to 10 minutes).
- ◆ Pressure gauge.
- ◆ Main "on / off / auto" switch.
- ◆ Manual override switches.
- ◆ Filter / regulator / lubricator assembly with dessicant filter to protect circuitry.
- ◆ Air logic controls.
- ◆ Four (4) air hoses (1/2" x 75 feet long) with quick disconnects.
- ◆ Fully portable.

### Power Head Assembly

- ◆ Two per packaged unit.
- ◆ Power head body with air motor drive and gear reducer.
- ◆ Four jet nozzle manifold.
- ◆ Three (3) pipe plugs, 3/4" NPT.
- ◆ Three (3) pipe plugs, 1" NPT.

### Stationary Mounting Brackets

- ◆ Four per packaged unit.
- ◆ Designed to be welded in place.
- ◆ Accepts 4" square tubing.
- ◆ Accommodates chain tensioner or chain anchor.

### Adjustable Mounting Brackets

- ◆ Four per packaged unit.
- ◆ Attaches to 4" square tubing at any location.
- ◆ Used for mounting chain tensioner or chain anchor.

### Chain Tensioner

- ◆ Two per packaged unit.
- ◆ Universal design does not limit chain length.

### Chain Anchor

- ◆ Two per packaged unit.
- ◆ Designed for 40 pitch chain to mount with master link.

### Chain

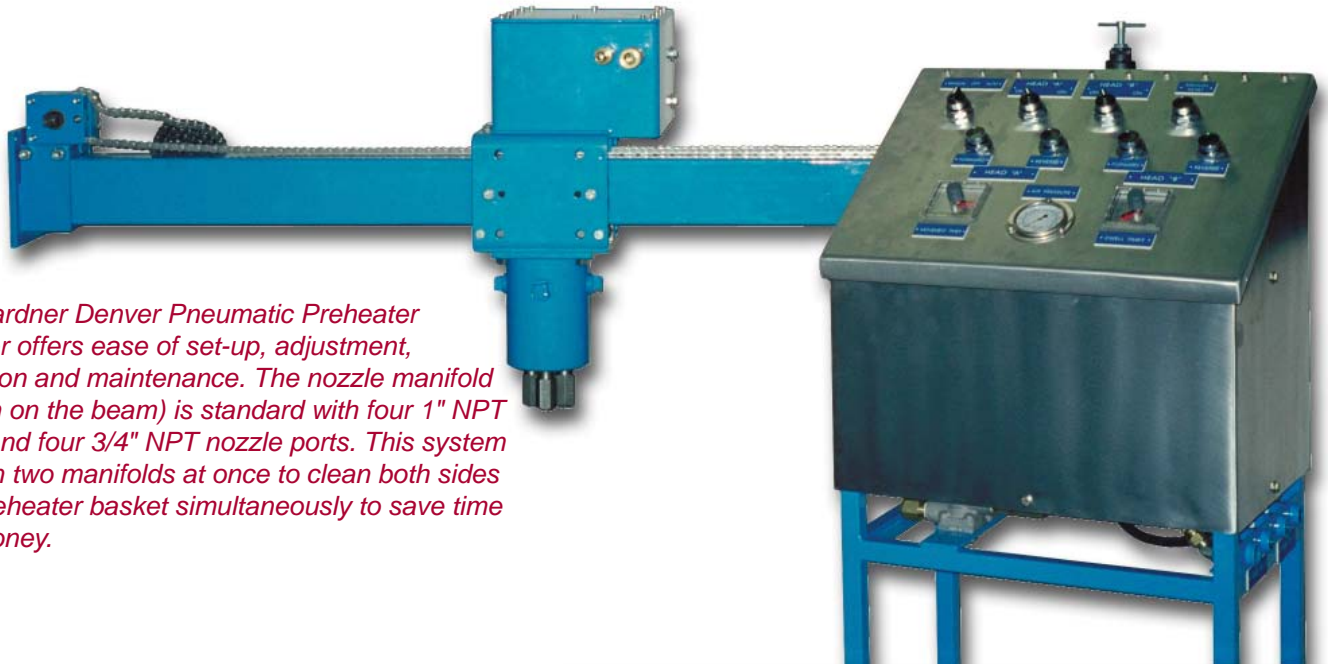
- ◆ Four per packaged unit.
- ◆ 40 pitch nickel plated x 10 feet long with master link.

### Hose

- ◆ 50-foot power hoses furnished for each power head.

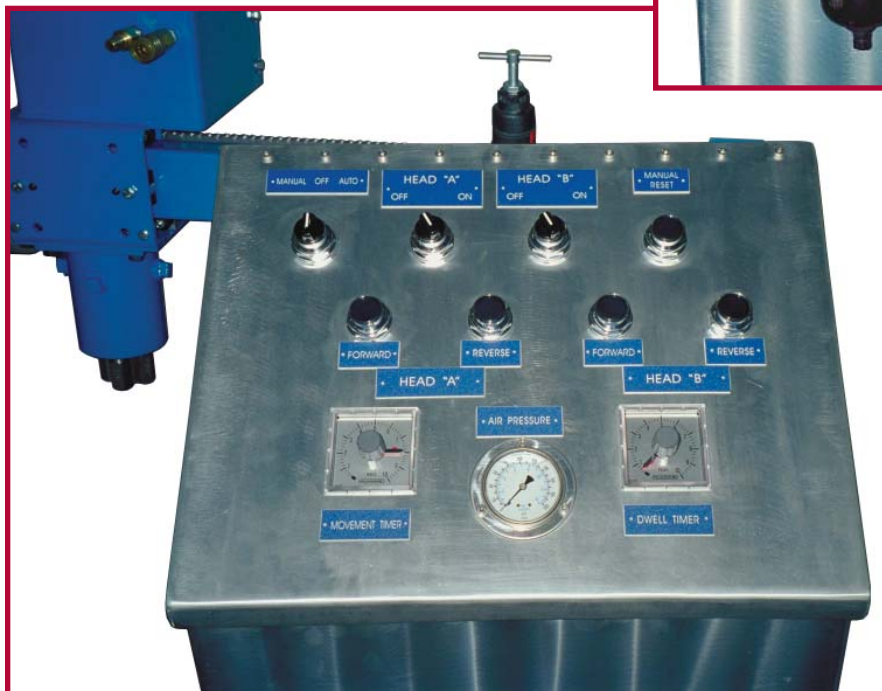
### Pneumatic Power

- ◆ Air Requirements:  
Single Manifold Operation - 40 CFM @ 80 PSI.  
Dual Manifold Operation - 80 CFM @ 80 PSI.



The Gardner Denver Pneumatic Preheater Cleaner offers ease of set-up, adjustment, operation and maintenance. The nozzle manifold (shown on the beam) is standard with four 1" NPT inlets and four 3/4" NPT nozzle ports. This system can run two manifolds at once to clean both sides of a preheater basket simultaneously to save time and money.

The FRL assembly (right) protects the system circuits and is easy to service.



The control console (above) is simple to operate. One need only to determine rotation speed of the preheater rotor, then adjust the timer on the left for just over one rotation, then set the dwell timer on the right to offset the nozzle manifold.

## Quality Parts, Reasonable Costs

Gardner Denver Water Jetting Systems, Inc. parts are designed and manufactured to fit perfectly and to last. Because every part we design is manufactured by Gardner Denver, each part is inspected to meet our demanding quality standards before it goes into a product or inventory. And with thousands of units in service, parts are manufactured in high volumes to keep your costs low.

# PREHEATER CLEANERS

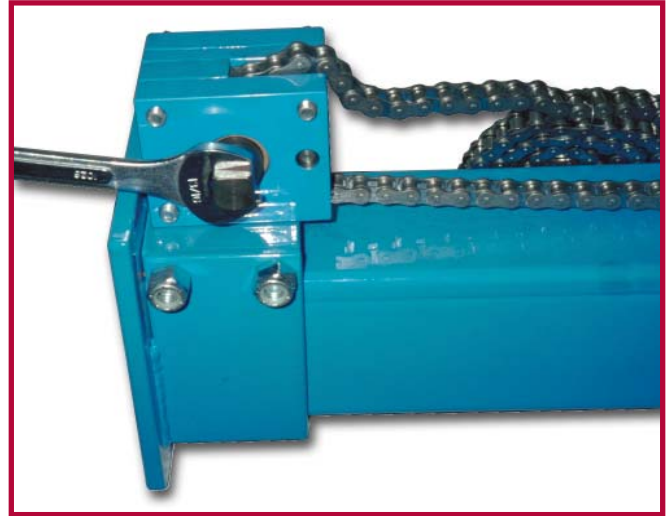
## Simple Mounting Set-Up

The PCT-2000-P drive assemblies and manifolds are designed to go on any length beam.

- ◆ The chain anchor (left) fits both stationary and adjustable mounting brackets, which are included in the package.



- ◆ The chain tensioner (right) permits tensioning regardless of excess chain length. The tensioner mounts to both stationary and adjustable mounting brackets.



## Recommended Jetting Units for Preheater Cleaning Operations

UNIT Model	PRESSURE		FLOW	
	PSI	Bar	GPM	LPM
600Q-7SB-VSDS	4,500-6,300	310-434	22-193	83-731
600-6S-VSDS	2,400-6,000	165-414	40-366	151-1385



Custom systems and options are available. Please contact your Gardner Denver sales representative or authorized dealer for details. Gardner Denver Water Jetting Systems, Inc. offers a complete line of accessories for surface preparation, tube cleaning, jet cutting and other applications. Please call or write for a free catalog today.

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