



# Portable Industrial HEPA Vacuum Cleaner

## MODEL: PLĒCO™ PD Loader Vacuum

### OVERVIEW: PD Loader Vacuum Series

The PD Loader Vacuum Series lets you clean up your dry spills with ease using a super-efficient, triple-filtration system using a powerful positive displacement vacuum producer. The load system offers options in storage size, horsepower, and filtration, so you'll get exactly the performance you need for every application.

The PLĒCO™ Portable Vacuum System is engineered for efficient and safe vacuuming of combustible dust and other hazardous materials in industrial environments. With robust features and customizable options, this vacuum system is ideal for protecting vital equipment and maintaining a clean, safe workspace.

### KEY BENEFITS

- **Combustible Dust Protection:** Designed for use with combustible dust to safeguard vital equipment and prevent hazardous situations.
- **Customizable Design:** Can be tailored to your specific space and application requirements. Fit for any plant layout, including systems that serve piping networks up to 1,000' long.
- **Space-Saving:** Occupies minimal plant floor space, making it ideal for compact work areas.
- **HEPA Filtration:** Built-in HEPA primary and secondary filtration in a compact design (99.97% efficiency @ 0.3 microns) protects employees from harmful airborne particles like asbestos, lead, and other fine particulates.
- **Low Maintenance:** Engineered for easy maintenance with a self-cleaning filter system and long-lasting components.
- **Versatile Operation:** Offers both single-operator (1.5", 2", or 3" ID hose) and multi-operator (up to five operators) systems.



### PRODUCT FEATURES

- **Regenerative HEPA Vacuum Series:** Ensures continuous operation with high filtration efficiency to keep air clean and protect workers.
- **Primary and Secondary Filtration:** Compact, multi-stage filtration system for maximum dust collection efficiency.
- **Pulse-Jet Filter Cleaning:** Automatically shakes the filters without needing to power down, improving operational uptime.
- **Piping Network Design & Integration** available.
- **Vacuum Levels:** Up to 13" Hg, providing powerful suction for even the toughest jobs.
- **Durable Construction:** Tank made of 14 gauge carbon steel for maximum strength and longevity.
- **Exhauster Safety Filter:** Integrated for additional safety during operation.
- **Quiet Operation:** Super-quiet, continuous-duty regenerative vacuum with an industrial squirrel cage motor, suitable for handling heavy, sticky materials.
- **Positive Displacement (PD) Motor**
- **Easy-to-Read Gauges:** Includes vacuum and differential pressure gauges for clear indication of system performance and operational status.
- Shipping weight 2100 lbs.

### APPLICATIONS

- **Asbestos and Lead Removal:** Safely vacuum harmful materials, ensuring compliance with safety standards.
- **Combustible Dust Recovery:** Ideal for industrial settings that generate combustible dust (e.g., wood-working, chemical processing).
- **Industrial Environments:** Perfect for cleaning sticky materials and debris from metalworking, food processing, aerospace, and more.

**Contact Us Today!**  
717-854-4050



# Portable Industrial HEPA Vacuum Cleaner MODEL: PLĒCO™ PD Loader Vacuum

| MODEL                       | PLĒCO™ PD Loader                                                      |
|-----------------------------|-----------------------------------------------------------------------|
| Filter Section Diameter     | 28"                                                                   |
| Operators - 1.5" Hose       | 2-7 Users                                                             |
| Operators - 2" Hose         | 1-3 Users                                                             |
| Nominal Max CFM             | 735                                                                   |
| Primary Filter Area         | 75ft <sup>2</sup>                                                     |
| # of Filters                | 20                                                                    |
| Standard Discharge Storage  | 40gal - 2.0 cubic yards                                               |
| Standard Pump Size          | 20 HP PD / 12.6 KW Regenerative                                       |
| Vacuum Level Max            | 72" wc / 5.3"Hg                                                       |
| Unit Weight                 | 800lbs                                                                |
| Combustible Dust            | Optional                                                              |
| Additional Pump Size        | 25, 30 HP                                                             |
| Construction                | 14 ga Carbon Steel                                                    |
| Standard Mounting           | Frame, Fork Lifiable                                                  |
| Filter Efficiency - Primary | 99.99% @ 0.4 microns                                                  |
| Dimensions                  | W 36" (915 mm) x<br>L 69" (1753 mm) x H 79"<br>(2001 mm) high         |
| Frame                       | Heavy-duty, all-steel welded construction for durability and strength |
| Secondary Filter            | 99.97% @ 0.3 microns (HEPA Filter).                                   |
| Filter Cleaning Mechanism   | Pulse Jet                                                             |
| Filter Replacing Location   | Side Loading                                                          |
| Standard Voltage            | 480V - 3 Phase                                                        |
| Push Button Start           | Yes                                                                   |
| Noise Level                 | ~ 79 dB (A)                                                           |

| ADDITIONAL FEATURES                     |                                                                                                                        |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Operator Tool Kit Available             | 6 Piece Operator Tool-Kit                                                                                              |
| Design/Build Customization Availability | Custom integration                                                                                                     |
| ACGIH Compliance                        | Yes                                                                                                                    |
| NFPA Compliance                         | Yes                                                                                                                    |
| Pre-Separation Drum Kit Available       | Yes                                                                                                                    |
| Vacuum Level Options                    | 5.3 - 12"Hg                                                                                                            |
| Additional Voltage Options              | 208/230/380/460<br>575/ 3Phase                                                                                         |
| File Formats                            | Navisworks (NWF, NWD),<br>AutoCAD (DWG, DWZ),<br>BMP, DXF, GIF, IGES, Inventor (IDW, IPT, IAM, STP),<br>JPG, PDF, TIFF |

*Design subject to change without notice due to continued research and improvements. Performance ratings +/- 10%. USPTO Patent 8,888,880.*

## Why choose the PLĒCO™ Portable Vacuum System?

**SAFETY FIRST:** Protects workers and equipment by efficiently removing hazardous dust and particles.

**CUSTOMIZABLE & SCALABLE:** Flexible design to suit your facility's needs, from small to large operations.

**EFFICIENT & LOW MAINTENANCE:** Easy filter maintenance with a built-in shaker mechanism and minimal downtime.

**ROBUST & RELIABLE:** Built for continuous use in demanding industrial environments, ensuring long-term performance.

**Contact Us Today!**

717-854-4050

[mysolution@airdynamics.net](mailto:mysolution@airdynamics.net)