



# PIRATE<sup>®</sup> BRAND

## 3-IN-1 All-Media\* Abrasive Blasters

# SODA STORM<sup>™</sup>



Distributed By:



2717 Tobey • Indianapolis, IN 46219  
(317) 545-0665 • FAX (317) 545-0670 • (800) 800-0665  
[www.idsblast.com](http://www.idsblast.com)



\* Never use abrasives containing silica as they are a respiratory health hazard.

See limited warranty documentation for complete details

# WHAT CAN SODA STORM™ DO FOR YOU?

Commercial Restoration Cleaning Applications



Fire Restoration Cleaning Applications



Mold Remediation Cleaning Applications



Marine Coating Removal



SODA STORM™ 3-in-1 abrasive blast pots are true **all-media\* systems** and come equipped to not only blast with **soft abrasives (#1)** like soda, but with traditional more **aggressive abrasives (#2)** as well. Using our WIN® (Water Induction nozzle), gain the advantage of **wet blast dust suppression (#3)**.

The most common Soda Storm™ cleaning applications include:

- Graffiti Removal
- Mold Remediation
- Engine Rebuilding
- Fire Restoration
- Food Industry

Also used for coating removal on:

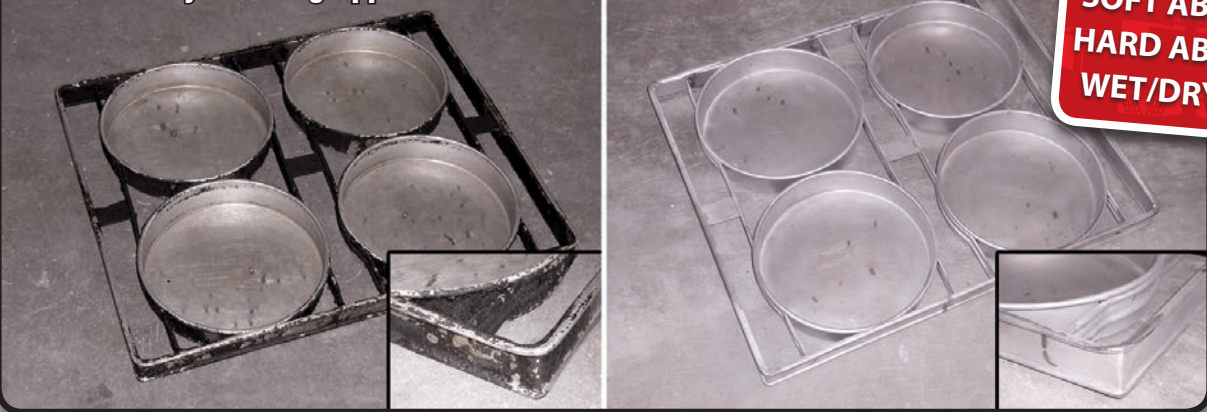
- Automobile Restoration
- Marine Equipment
- Commercial Vehicles
- Aviation Equipment
- Industrial Equipment

\* Never use abrasives containing silica as they are a respiratory health hazard.



**3-IN-1**  
SOFT ABRASIVES  
HARD ABRASIVES  
WET/DRY BLAST

Food Industry Cleaning Applications



Engine Rebuilding Cleaning Applications



Automotive Coating Removal



# SODA STORM™

## 3-IN-1 ALL-MEDIA\* SYSTEMS

### Soda Storm™ Systems Include:

- Pirate Brand® APVII™ Premium Multi-Port Fixed Orifice Sleeve for dialling in the perfect abrasive flow rate - includes clean-out ball valve assembly & standard Tungsten Carbide Sleeve for heavier abrasive use
- Water Induction Nozzle System (WIN®) for dust suppression & dual operation as a dry or wet blast nozzle. Features a double-venturi design for a 35% larger blast pattern and "hot-spot" elimination
- Moisture separator with 50 micron filter element
- Galvanized piping for corrosion resistance
- Heavy duty full port ball valves
- Quick metering valve removal coupling provides fast access to obstructions bridging over the metering port
- **NEW ON DEMAND VIBRATOR** to aid in abrasive flow. Only runs when control handle is activated.
- Pressure regulator with liquid filled gauge
- Differential pressure gate valve provides you with precision control of your abrasive flow rate
- Blow-down muffler reduces noise
- 50 ft. Ergo Flex blast hose is ergonomically friendly & helps eliminate operator fatigue
- 150 psi\*\* (10.3 bar) Pressure Vessel - A.S.M.E. Section VIII Division 1 & CRN for all provinces
- Lid and screen to keep pot free of contaminants
- Valve guard to protect valves & gauges when transporting on 3.5 cu. ft. & 6.5 cu. ft. Soda Storm™ blasters



**3-IN-1**  
SOFT ABRASIVES  
HARD ABRASIVES  
WET/DRY BLAST



Includes multi-port fixed orifice sleeve for use with soft abrasives and a standard sleeve for traditional abrasives.



### 3.5 cu. ft. Soda Storm™

Shown above with 55' Twinline Hose Assy control Handle #2, WIN® System & 50 ft. Ergo Flex Blast Hose

## PREMIUM FEATURES



### Water Induction Nozzle

Our WIN® (water induction nozzle) System with simple hook up garden hose thread attachment is one of the best in the business. You gain the ability to blast dry or blast wet to suppress dust. The double venturi design has the added benefit of a 35% larger blast pattern and eliminates the "hot-spot" in the center of traditional nozzle blast patterns



### APVII™ Premium Metering Valve

The APVII™ is our top-of-the-line metering valve & delivers the best possible performance combined with a low maintenance cost. Includes many premium features including a clean out port and multi-ported sleeve (shown next to valve).



### Quick Removal Coupling

The premium coupling that we use to attach the metering valve to the bottom of the pressure vessel was chosen for one simple purpose... quick & easy removal of the metering valve when necessary for obstruction removal or servicing. You'll thank us for this one.

# AVAILABLE SYSTEMS

# HOW SODA STORM™ SYSTEMS WORK



## 1.5

### PN: 999-8040-010PB

1.5 Cu. Ft. (43 Liter) capacity, 150 PSI\* (10.3 BAR) pressure hold system with pneumatic controls. Includes:

- APV II™ Metering Valve with Ported & Standard Sleeve.
- Automatic Air Valve
- 1" Piping w/Moisture Separator
- Lid & Screen
- #2 Pneumatic Control Handle w/55' Twinline Control Hose
- 50' Ergo-Flex Blast Hose w/Couplings
- #5 Tungsten Carbide Water Induction Nozzle



### PN: 999-8040-110PB

Same as 999-8040-010PB without the blast hose and nozzle.



## 3.5

### PN: 999-8040-030PB

3.5 Cu. Ft. (100 Liter) capacity, 150 PSI\* (10.3 BAR) pressure hold system with pneumatic controls. Includes:

- APV II™ Metering Valve with Ported & Standard Sleeve.
- Automatic Air Valve
- 1" Piping w/Moisture Separator
- Lid & Screen
- #2 Pneumatic Control Handle w/55' Twinline Control Hose
- 50' Ergo-Flex Blast Hose w/Couplings
- #5 Tungsten Carbide Water Induction Nozzle



### PN: 999-8040-130PB

Same as 999-8040-030PB without the blast hose and nozzle.



## 6.5

### PN: 999-8040-060PB

6.5 Cu. Ft. (185 Liter) capacity, 150 PSI\* (10.3 BAR) pressure hold system with pneumatic controls. Includes:

- APV II™ Metering Valve with Ported & Standard Sleeve.
- Automatic Air Valve
- 1-1/4" Piping w/Moisture Separator
- Lid & Screen
- #2 Pneumatic Control Handle w/55' Twinline Control Hose
- 50' Ergo-Flex Blast Hose w/Couplings
- #5 Tungsten Carbide Water Induction Nozzle



### PN: 999-8040-160PB

Same as 999-8040-060PB without the blast hose and nozzle.

**Blast cabinet models with foot pedal controls also available.**

\* Do not exceed 125 PSI when using nylon blast hose couplings & nozzle holders.

### ADDING ABRASIVE

Abrasive is added through the hole in the top of the Abrasive Blaster where the Pop-up and its seat are located. When abrasive is added, it flows down through the opening, around the Pop-up, and down to the bottom of the pressure vessel where it will exit through the Multi-Port Fixed Orifice Sleeve in the Metering Valve when blasting is started.

### PRESSURIZATION

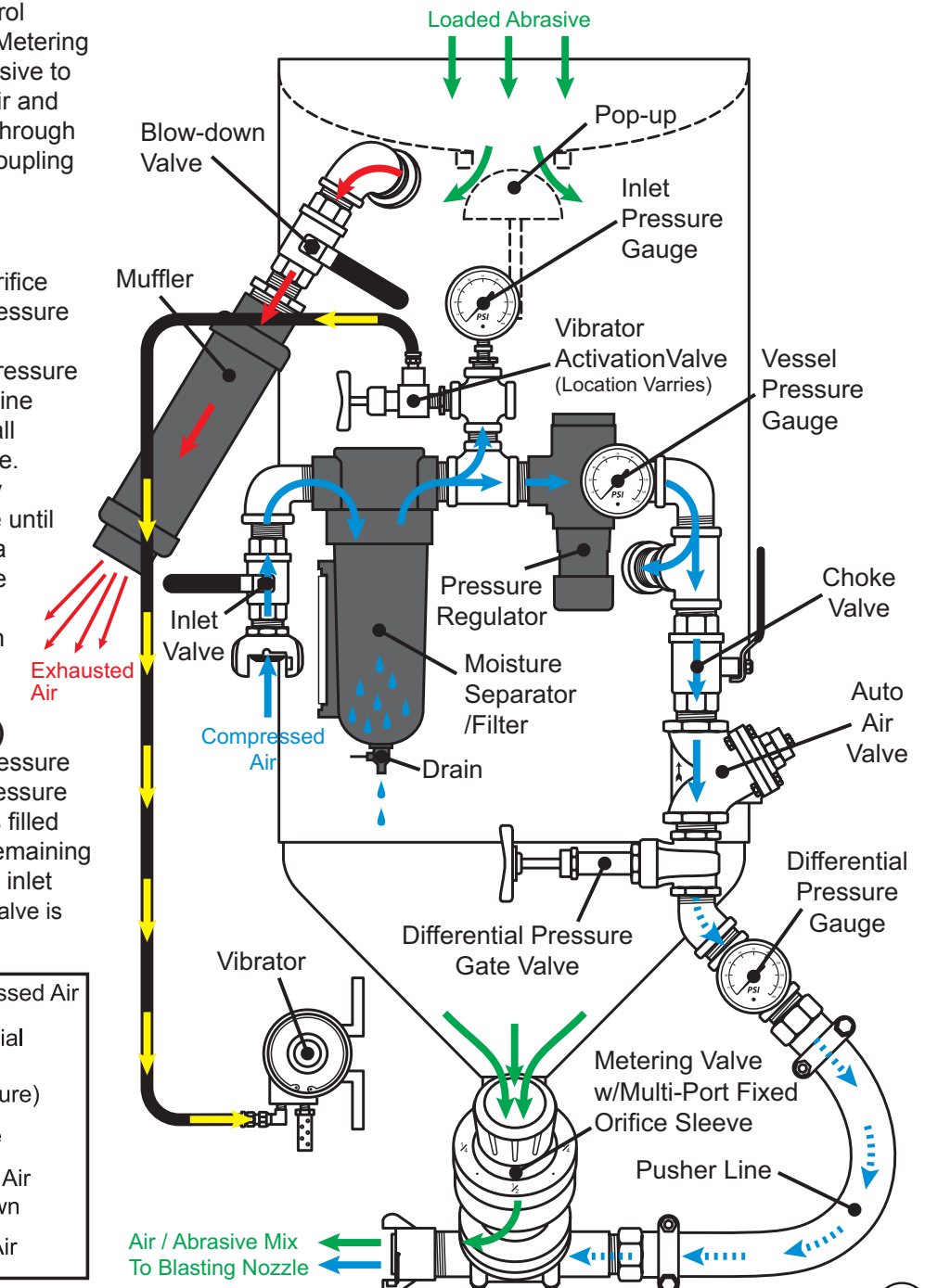
Before pressurization can take place in a Soda Storm™ system, the Blow-down Valve must be closed. Then, when a compressed air source (such as an air-compressor) is connected to the inlet of the Abrasive Blaster and the Inlet Valve is opened, compressed air can flow through the Moisture Separator/Filter and Pressure Regulator into the pressure vessel causing the Pop-up (located internally) to seal against its seat allowing the pressure vessel to become pressurized. To blast at pressures less than the minimum required inlet pressure of 90 PSI, the Pressure Regulator is used. When the control handle is activated, the Auto Air Valve and Metering Valve open allowing compressed air & abrasive to flow and mix. The mixture of compressed air and abrasive will now exit the Abrasive Blaster through a blast hose and nozzle connected to the coupling on the Metering Valve and blasting begins.

### DIFFERENTIAL PRESSURE

When blasting using the Multi-Port Fixed Orifice Sleeve in the Metering Valve, differential pressure may be used to aid in the flow of abrasive. Differential pressure uses **slightly** higher pressure in the Pressure Vessel than in the Pusher Line to help "push" the abrasive through the small orifices in the Multi-Port Fixed Orifice Sleeve. Differential pressure is achieved by partially closing the Differential Pressure Gate Valve until the Differential Pressure Gauge is reading a **slightly** lower PSI than the Vessel Pressure Gauge. In addition to using differential pressure, the Vibrator may be used to aid in the flow of abrasive.

### DEPRESSURIZATION (BLOW-DOWN)

When the control handle is released in a pressure hold system (Soda Storm™ blasters are pressure hold systems), the pressure vessel remains filled with compressed air. The compressed air remaining in the pressure vessel is released when the inlet valve is manually closed and the blow-down valve is manually opened.



# THE PERFECT STORM™

# A COMPLETE MOBILE BLASTING SYSTEM

## Soda Storm™ Blaster

The Soda Storm™ is the most advanced small blaster available from Pirate Brand®. It boasts all top-quality components and an arsenal of productivity boosting features. It is designed to blast with all types of media\* including soda and other soft abrasives. The Perfect Storm™ comes standard with a 3.5 cu ft Soda Storm™ Blaster but is available with the larger 6.5 cu ft version. Advantages include:

- APVII™ Premium Metering Valve with multi-port and standard sleeves included for achieving the perfect flow rate.
- Moisture separator with 50 micron filter element
- Galvanized piping for corrosion resistance
- Heavy duty full port ball valves
- Quick removal coupling provides fast removal of metering valve for maintenance
- Abrasive flow assist vibrator with controls
- Pressure regulator with liquid filled gauge
- Differential pressure gate valve provides precision control over your abrasive flow rate
- Blow-down muffler reduces noise
- 150 psi\*\* (10.3 bar) pressure vessel - A.S.M.E. Section VIII Division 1 & CRN for all provinces
- Weather proof manual & manual case to keep manual close and protected
- Lid and screen to keep pressure vessel free of debris and contaminants.
- Valve guard to protect valves and gauges

\* Never use abrasives containing silica as they are a respiratory health hazard.

\*\* Do not exceed 125 PSI when using nylon blast hose couplings & nozzle holders.



## DLAD-250-360 Air Dryer

The high efficiency Air Dryer included on the Perfect Storm™ keeps the air flowing to the blaster and the breathing filter cool and dry. The result is a more reliable and longer lasting system that does not clog due to wet abrasive or wear out prematurely due to moist air running through the piping, valves & control system. Features include:

- POLYARMOR® internal coating for long life
- Low pressure drop
- Sight windows to view desiccant level
- Aux. connection

## Airline Filter

The included Radex™ airline filter uses a 6 stage filter cartridge that removes moisture, particulates to 0.5 micron & odor from the air being sent to the respirator.



Filter located on the air dryer frame

## Compressor

To power the Perfect Storm™ we chose a compressor that is up to the demands of abrasive blasting. The Sullivan Palatek rotary screw compressor has been positioned on the trailer to allow easy access to the controls and fuel tank as well as all maintenance areas. Features include:

- 185 cfm (5.2 m<sup>3</sup>/min) rated delivery
- 100 psig (700kPa) rated operating pressure
- Tier 4 Final Compliant engine
- Automatic shutdown protection system
- Exterior drains for fuel, engine oil, coolant & compressor oil
- 21 gal (79.5 L) fuel tank capacity
- 49 horsepower (36.5kw) @ rated horsepower
- Containment frame with drain ports on all 4 corners
- 3 year unlimited hour air end Sullivan-Palatek warranty.

## Toolbox

The included toolbox with stainless steel padlocks is the perfect place to store your blasting accessories and hoses. At Pirate Brand®, we know abrasive blasting and have used our knowledge and experience to bring you products that not only perform exceptionally well, but also include features that make the job easier and more convenient.

## Trailer

For the platform of the Perfect Storm™ we chose this heavy duty 14,000 lbs GVW trailer. Trailer features include:

- Heavy Duty 12,000 lb Jack
- Space to accommodate pallet of media (media not included)
- Included spare tire
- Steps for easy access to equipment
- Fully adjustable ball or pintle ring
- Fully galvanized under deck piping linking compressor, air dryer & blaster

## Included Accessories

The Perfect Storm™ comes with an assortment of accessories to get you up and running quickly. Just add media and fuel and you're in business. Accessories included are:

- 50' of ergoflex blast hose w/twinline, pneumatic #2 control handle and WIN® water induction nozzle
- Nova2000™ Respirator WITH COOL TUBE to keep your operator blasting comfortably
- 50' of breathing airline hose
- Spare pack of inner lenses, outer lenses, and tear-aways for the Nova2000 Respirator
- Blast suit
- Luxury double palmed leather blasting gloves



## Weights & Dimensions

- 109" Overall Height
- 6' tongue length
- 700 lbs tongue weight
- 82½" Overall Width
- 14,000 lbs GVW Trailer
- 16' length usable bed
- Approximately 8,800 lbs full fuelled (does not include weight of abrasive)

Here it is, a complete blasting solution in one portable package. The Perfect Storm™ has been developed in cooperation with the blasters who actually do the work so you can be sure it has the features, tough components & conveniences that help get the job done fast and right. At the heart of the system is the Soda Storm™ blast system which can blast with standard abrasives and soda for special cleaning & coating removal applications.

Ease of deployment is the key feature of the Perfect Storm™. You can spend well over an hour to load all the individual components, and another hour unloading them again and setting them up with a standard setup. The Perfect Storm™ can be deployed and be ready to start blasting in about 5-10 minutes. Quick deployment not only makes this a great piece of equipment to own but is also a great option for rental houses to keep in their fleet.

## Start a Business or Add A Profit Center To Your Existing Business

One way to turn the Perfect Storm™ into a profit center is to finance at a low monthly cost that is easy to recoup. We can help with up to 60 month financing options.

# BLASTING SET-UP



# BLASTING SET-UP/ACCESSORIES

Nozzles	
1" ENTRY NOZZLES 1-1/4" THREAD	
1201-1172	#3 TUNGSTEN CARBIDE NOZZLE
1201-1173	#4 TUNGSTEN CARBIDE NOZZLE
1201-1174	#5 TUNGSTEN CARBIDE NOZZLE
1201-1175	#6 TUNGSTEN CARBIDE NOZZLE
1201-1176	#7 TUNGSTEN CARBIDE NOZZLE
WIN (WATER INDUCTION) NOZZLES	
1410-005	WATER INDUCTION NOZZLE SYSTEM, TUNGSTEN CARBIDE, 5/16" BORE, 1" ENTRY, 1-1/4" THREAD, ALUMINUM JACKET, HOSE INCLUDED
1410-1005	WATER INDUCTION NOZZLE SYSTEM, TUNGSTEN CARBIDE, 5/16" BORE, 1" ENTRY, 50MM THREAD, ALUMINUM JACKET, HOSE INCLUDED
NOZZLES 3/4" THREAD FOR USE WITH CABINETS	
1348-614	#3 TUNGSTEN CARBIDE NOZZLE
1348-616	#4 TUNGSTEN CARBIDE NOZZLE
1348-617	#5 TUNGSTEN CARBIDE NOZZLE

Blast Suits / Gloves	
122-9140	BLAST SUIT, LIGHTWEIGHT, MEDIUM
122-9150	BLAST SUIT, LIGHTWEIGHT, LARGE
122-9160	BLAST SUIT, LIGHTWEIGHT, XL
122-9170	BLAST SUIT, LIGHTWEIGHT, XXL
122-9180	BLAST SUIT, LIGHTWEIGHT, XXXL
407701	DOUBLE PALMED LEATHER BLASTING GLOVES

Air Dryers / After Coolers	
DLAD-250-360	PORTABLE AIR DRYER, 250 CFM @ 100 PSIG, 360 CFM @ 150 PSIG
DLAD-450-575	PORTABLE AIR DRYER, 450 CFM @ 100 PSIG, 575 CFM @ 150 PSIG
DLAD-750-1130	PORTABLE AIR DRYER, 750 CFM @ 100 PSIG, 1130 CFM @ 150 PSIG
DLAD-900-1160	PORTABLE AIR DRYER, 900 CFM @ 100 PSIG, 1160 CFM @ 150 PSIG
DLAD-1600-2300	PORTABLE AIR DRYER, 1600 CFM @ 100 PSIG, 2300 CFM @ 150 PSIG
DLAC-250-360	PORTABLE AFTER COOLER, 250 CFM @ 100 PSIG, 360 CFM @ 150 PSIG
DLAC-450-575	PORTABLE AFTER COOLER, 450 CFM @ 100 PSIG, 575 CFM @ 150 PSIG
DLAC-750-1130	PORTABLE AFTER COOLER, 750 CFM @ 100 PSIG, 1130 CFM @ 150 PSIG
DLAC-900-1160	PORTABLE AFTER COOLER, 900 CFM @ 100 PSIG, 1160 CFM @ 150 PSIG
DLAC-1600-2300	PORTABLE AFTER COOLER, 1600 CFM @ 100 PSIG, 2300 CFM @ 150 PSIG

Blast Hose & Twinline	
10-100BLK-050-3AL	1" BLAST HOSE ASSEMBLY, 50', BLACK, INCLUDES ALUMINUM 1-1/4" NOZZLE HOLDER
10-100TAN-050-3NY	1" BLAST HOSE ASSEMBLY, 50', ERGO-FLEX, INCLUDES NYLON 1-1/4" NOZZLE HOLDER
10-100TAN-050-3XNY	1" BLAST HOSE ASSEMBLY, 50', ERGO-FLEX, INCLUDES NYLON 50MM NOZZLE HOLDER
10-050BLK-025-3AL	1/2" BLAST HOSE ASSEMBLY, 25', BLACK, INCLUDES ALUMINUM 3/4" NOZZLE HOLDER (FOR USE WITH BLAST CABINETS)
10-100BLK-050-4AL	1" EXTENSION BLAST HOSE ASSEMBLY, 50', ALUMINUM COUPLINGS
10-114BLK-050-4AL	1-1/4" EXTENSION BLAST HOSE ASSEMBLY, 50', ALUMINUM COUPLINGS
4100-50101PB	TWINLINE CONTROL HOSE EXTENSION, 55', WITH QUICK DISCONNECT FITTINGS
27WT-1	SAFETY CABLE, 1/2" - 1-1/4", HOSE TO EQUIP.
27WC-15	SAFETY CABLE, 1" - 2-1/2", HOSE TO HOSE

Air Hose	
10-034RED-050-1	3/4" AIR HOSE ASSEMBLY, 50'
10-100RED-025-1	1" AIR HOSE ASSEMBLY, 25'
10-100RED-050-1	1" AIR HOSE ASSEMBLY, 50'
10-112RED-025-1	1-1/2" AIR HOSE ASSEMBLY, 25'
10-112RED-050-1	1-1/2" AIR HOSE ASSEMBLY, 50'
27WT-1	SAFETY CABLE, 1/2" - 1-1/4", HOSE TO EQUIP.
27WT-2	SAFETY CABLE, 1-1/2" - 3", HOSE TO EQUIP.
27WC-15	SAFETY CABLE, 1" - 2-1/2", HOSE TO HOSE

Breathing Equipment	
NV3-702-50-PFC	RPB® NOVA 3® RESPIRATOR PACKAGE
407000-PFC	RPB® NOVA 2000™ RESPIRATOR PACKAGE
407800-PFC	RPB® ASTRO™ RESPIRATOR PACKAGE
03-501	RPB® C40 HOT/COLD CLIMATE CONTROL DEV.
407001	RPB® COOL TUBE W/BELT
407024	RPB® HOT TUBE W/BELT
08-400-01	RPB® GX4 CO / GAS MONITOR (120 VAC)
08-401-01	RPB® GX4 CO / GAS MONITOR (12 VDC)
GENVX®	BULLARD® GENVX® RESPIRATOR PACKAGE
88VX	BULLARD® 88VX RESPIRATOR PACKAGE
AC1000	BULLARD® AC1000 COOL TUBE W/BELT
HC2400	BULLARD® HC2400 HOT/COLD TUBE W/BELT
COHP	BULLARD® CAB CO MONITOR
RESPIRATOR PACKAGES INCLUDE RESPIRATOR HELMET, 50' BREATHING AIR SUPPLY HOSE, AND AIRLINE FILTER	

## Available Accessories

Job Timer	
PB-9805023P-01	ONE OUTLET TIMER CONTROL BOX W/ KEY RESET & MOUNTING BRACKET FOR SINGLE OUTLET BLASTERS

Abrasive Cut-Off Kits	
55' ABRASIVE CUT-OFF KIT	
ABRASIVE CUT-OFF PALM BUTTON KIT	
Add an abrasive cut-off conversion kit to your SPH Series abrasive blaster allowing you to blow off your project with the same high velocity air you blast with.	
888-2035-00101PB	55' PNEUMATIC ABRASIVE CUT-OFF KIT
888-2035-00202PB	PALM BUTTON ABRASIVE CUT-OFF KIT

Relief Valve Kit	
Adding this ASME relief valve kit to your blaster can prevent dangerous over-pressurization. Local codes may require a different valve.	
888-2470-00702PB	150 PSI RELIEF VALVE KIT FOR SMALL S-SERIES ABRASIVE BLASTERS

# PIRATE BRAND®

At Pirate Brand®, we know abrasive blasting. We have fused our 100+ years of combined experience in the blasting industry with feedback from distributors and end-users to produce abrasive blast equipment and replacement parts that are second to none. In addition to our extensive line of blasting equipment, we produce a full line of aftermarket parts that are 100% compatible replacements for other blast equipment manufacturers. We believe in quality, reliability and productivity so we subject all our products to strict quality control testing to ensure the best possible performance is achieved.

**In the tough world of abrasive blasting, quality is crucial,**

**...and Pirate Brand® delivers.**



**Portable Abrasive Blasters • Stationary Abrasive Blasters • Bulk Abrasive Blasters  
Soda Blasters • Air Dryers • After Coolers • Specialty Equipment • Blast Cabinet Parts  
Parts For Other Brands • Safety Gear • Nozzles • Air & Blast Hose • Couplings**