PIRATE BRAND®

SODA STORM™

S-SERIES BLASTERS

Proudly Distributed By:

PRODUCT LINE BROCHURE

What Can Soda Storm™ Do For You?

Most common Soda Storm™ cleaning applications include:

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

Also used for coating removal on:

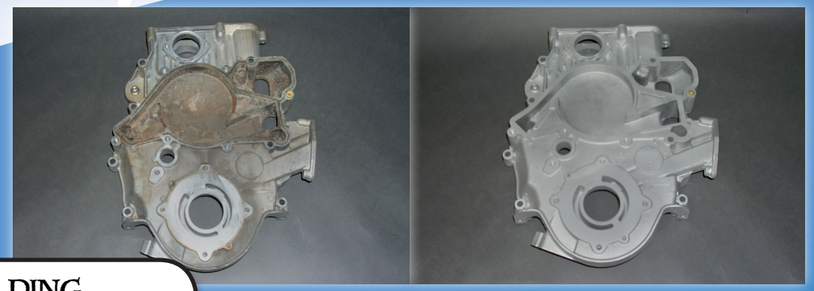
- Automobile Restoration
- Aviation Equipment
- Marine Equipment
- Industrial Equipment
- Commercial Vehicles

Commercial Restoration Cleaning Application

Fire Restoration Cleaning Application

Mold Remediation Cleaning Application

Food Industry Cleaning Application



Engine Rebuilding Cleaning Application

Marine Coating Removal

Automotive Coating Removal

SPH Pressure Hold Normally Closed Valves

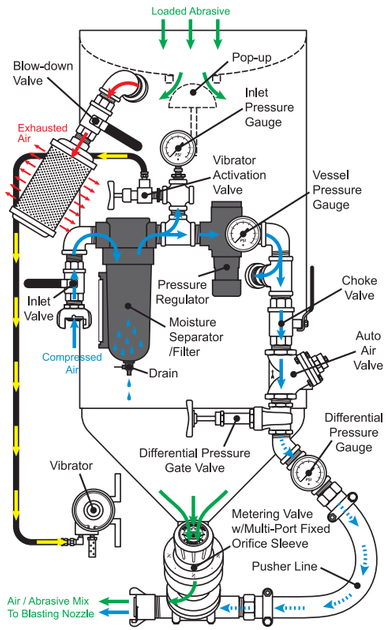
HOW SODA STORM™ SYSTEMS WORK

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 hole, around the Pop-up and, down to the bottom of the pressure vessel where it will exit through 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 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 90PSI, 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.

- Flow of Compressed Air
- Flow of Differential Compressed Air (Reduced Pressure)
- Flow of Abrasive
- Flow of Exhaust Air During Blow-down
- Vibrator Signal Air

DEPRESSURIZATION (BLOW-DOWN)

When the control handle is released in a pressure hold (SPH) system, 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.

Premium Features

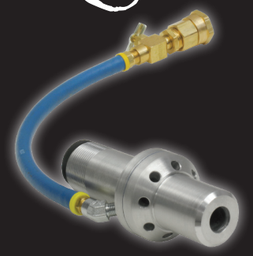
APVII™

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).

Premium 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 maintenance. You'll thank us for this one.



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'll enjoy the simplicity & reliability of this design.

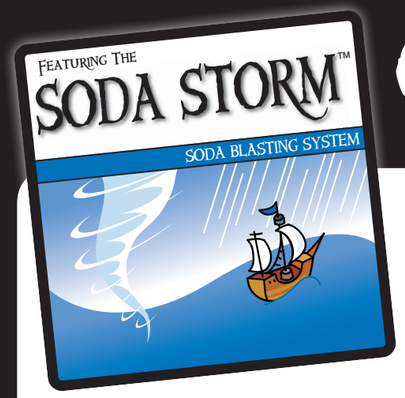
SODA STORM™ Systems

Soda Storm™ Systems Include:

- **Pirate Brand® APVII™ Premum Multi-Port Fixed Oriface Sleeve for achieving infinite amount of flow rates - includes cleanout ball valve assembly & optional Tungsten Carbide Sleeve for heavier abrasive use**
- **Moisture separator with 50 micron filter element**
- **Galvanized piping for corrosion resistance**
- **Heavy duty full port ball valves**
- **Sanitary clean out coupling provides easy access to obstructions that may be bridging over the metering port**
- **Abrasive flow assist vibrator with controls**
- **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**
- **Water Induction Nozzle System (WIN®) for mininum water consumption & dual operation as a dry or wet blast nozzle**
- **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**

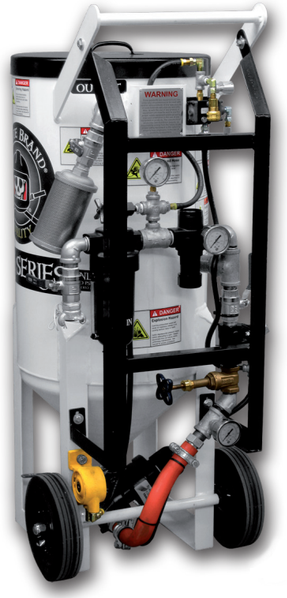
3.5 cu. ft. & 15 cu. ft. Soda Storm™
Shown above with 55' Twinline Hose Assy Control Handle #2, WIN® System, & 50 ft. Ergo Flex Blast Hose

3 Sizes to Choose From



1.5 CU. FT. (43 Liters)

Portable Abrasive Blasters Pressure Hold (SPH)



3.5 CU. FT. (100 Liters)

Portable Abrasive Blasters Pressure Hold (SPH)

6.5 CU. FT. (185 Liters)

Portable Abrasive Blasters Pressure Hold (SPH)

SPH SODA STORM™ SYSTEMS

Featuring Normally Closed APVII™ Metering Valves

Part Number: 8040-010

VESSEL, PORTABLE, **1.5 CU. FT.** (43 LITERS), 150 PSI (10.3 BAR) **PRESSURE HOLD SYSTEM, SODA STORM, PNEUMATIC,** INCLUDES **APV II W/MULTI PORTED SLEEVE** (STAINLESS STEEL), AUTO AIR VALVE, 1" PIPING W/MOISTURE SEPARATOR, LID, SCREEN, 55'TWINLINE HOSE ASSY, CONTROL HANDLE #2, 1" (50') ERGO FLEX BLAST HOSE W/COUPLINGS & #5 TUNGSTEN CARBIDE WATER INDUCTION NOZZLE SYSTEM

Part Number: 8040-030

VESSEL, PORTABLE, **3.5 CU. FT.** (100 LITERS), 150 PSI (10.3 BAR) **PRESSURE HOLD SYSTEM, SODA STORM, PNEUMATIC,** INCLUDES **APV II W/MULTI PORTED SLEEVE** (STAINLESS STEEL), AUTO AIR VALVE, 1" PIPING W/MOISTURE SEPARATOR, LID, SCREEN, LOADING SKID/VALVE GUARD, 55'TWINLINE HOSE ASSY, CONTROL HANDLE #2, 1" (50') ERGO FLEX BLAST HOSE W/COUPLINGS & #5 TUNGSTEN CARBIDE WATER INDUCTION NOZZLE SYSTEM

Part Number: 8040-060

VESSEL, PORTABLE, **6.5 CU. FT.** (185 LITERS), 150 PSI (10.3 BAR) **PRESSURE HOLD SYSTEM, SODA STORM, PNEUMATIC,** INCLUDES **APV II W/MULTI PORTED SLEEVE** (STAINLESS STEEL), AUTO AIR VALVE, 1-1/4" PIPING W/MOISTURE SEPARATOR, LID, SCREEN, LOADING SKID/VALVE GUARD, 55'TWINLINE HOSE ASSY, CONTROL HANDLE #2, 1" (50') ERGO FLEX BLAST HOSE W/COUPLINGS & #5 TUNGSTEN CARBIDE WATER INDUCTION NOZZLE SYSTEM

Blasting Set-Up

Blasting Set-Up

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

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	LUXURY DOUBLE PALMED LEATHER BLASTING/WELDING GLOVES

A "MUST HAVE" FOR SODA BLASTING

Air Dryers / Moisture Separators

1310-021	AIR DRYER ADPB-250 CFM @ 100 PSIG OR 359 CFM @ 150 PSIG
1310-041	AIR DRYER ADPB-400 CFM @ 100 PSIG OR 574 CFM @ 150 PSIG
1200-080-05	MOISTURE SEPARATOR 800 CFM, PORTABLE 150 PSI (10,3 BAR), (1) 4 LUG W/BALL VALVE INLET x (1) 4 LUG OUTLET

Available Accessories

Blast Hose

Nozzles Not Included

10-100BLK-050-3AL	1" BLAST HOSE ASSEMBLY, 50', BLACK, INCLUDES ALUMINUM NOZZLE HOLDER
10-100TAN-050-3NY	1" BLAST HOSE ASSEMBLY, 50', ERGOFLEX, INCLUDES NYLON NOZZLE HOLDER
10-100TAN-050-3XNY	1" BLAST HOSE ASSEMBLY, 50', ERGOFLEX, INCLUDES 50mm NYLON NOZZLE HOLDER
10-100BLK-050-4AL	1" EXTENSION HOSE ASSEMBLY, 50'
10-114BLK-050-4AL	1-1/4" EXTENSION HOSE ASSEMBLY, 50'
27WT-1	SAFETY CABLE, 1/2" **-** 1" **HOSE TO EQUIP.**
27WC-1	SAFETY CABLE, 1/2" **-** 1" **HOSE TO HOSE.**
27WC-15	SAFETY CABLE, 1-1/4" **HOSE TO HOSE.**
27WT-2	SAFETY CABLE, 1-1/4" **-** 3" **HOSE TO EQUIP.**

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" **HOSE TO EQUIP.**
27WC-1	SAFETY CABLE, 1/2" **-** 1" **HOSE TO HOSE.**
27WT-2	SAFETY CABLE, 1-1/2" **-** 3" **HOSE TO EQUIP.**
27WC-2	SAFETY CABLE, 1-1/2" **-** 3" **HOSE TO HOSE.**

Breathing Equipment

407000-PFC	NOVA 2000™ RESPIRATOR PACKAGE
407800-PFC	ASTRO™ RESPIRATOR PACKAGE
407001	COOL TUBE
407024	HOT TUBE
407200	RADEX™ CO MONITOR (120V)
407201	RADEX™ CO MONITOR (12V)

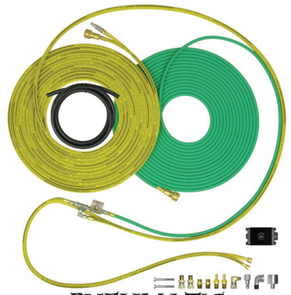
RESPIRATOR PACKAGES INCLUDE RESPIRATOR HELMET, 50' BREATHING AIR SUPPLY HOSE, AND RADEX™ AIRLINE FILTER.

A "MUST HAVE" FOR SODA BLASTING

Job Timer

KEEP TRACK OF TIME SPENT ON A JOB AND TOTAL HOURS ON YOUR ABRASIVE BLASTER. KNOW YOUR COST, CONTROL YOUR COST & SET UP A PREVENTATIVE MAINTENANCE PROGRAM FOR YOUR BLAST EQUIPMENT.

PB-9805023P	DUAL TIMER CONTROL BOX W/ KEY RESET & MOUNTING BRACKET



PNEUMATIC

PUSH BUTTON

Abrasive Cut-Off Kits

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

2035-001-01	55' PNEUMATIC ABRASIVE CUT-OFF KIT
2035-002-02	PALM BUTTON ABRASIVE CUT-OFF KIT

Relief Valve Kit

ADDING THIS ASME RELIEF VALVE KIT TO YOUR BLASTER CAN PREVENT DANGEROUS OVERPRESSURIZATION. LOCAL CODES MAY REQUIRE A DIFFERENT VALVE

2470-007-02	SMALL BLASTER RELIEF VALVE KIT

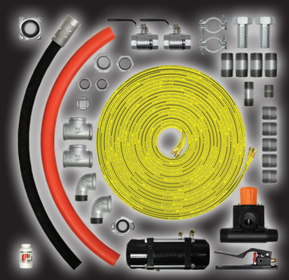
The S-Series Product Family

Air Dryers & Moisture Separators

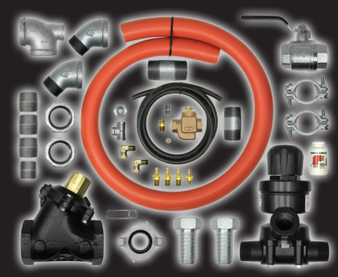
1.5/3.5/6.5 cu ft Small Blasters

Bulk Blasters

Conversion Kits



Small Blaster Kits



Bulk Blaster Kits

PIRATE BRAND®

About Pirate Brand®

At Pirate Brand®, we know abrasive blasting. We have fused our 80 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 also produce a full line of aftermarket replacement parts for other manufacturers that are 100% compatible and equal or better in quality to the original part. 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.

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