

PCT Cylinder Inverter Dryers

The PCT ADW inverts, washes and dries in a single cycle. Filtered air is injected into the inverted cylinder, purging out water from the hydrostatic test. Hot water (180°F) is introduced into the cylinder to rapidly heat the cylinder walls, followed by a final burst of clean air to produce a 'flash dried' cylinder ready for inspection.

Features:

- The PCT/ADW (Automated Dry & Wash) models can invert, wash, drain, and dry up to 2 water-filled cylinders in 3 minutes or less depending on cylinder size.
- The PCT/ADW is PLC controlled, freeing the operator to perform other duties during the purge/dry process. The time value for any cycle is easily programmed via the touchscreen to match the cylinder sizes or for particular applications.
- This PCT/ADW makes efficient use of workspace by eliminating the need for a cylinder vise, dump rack, and hot air drying manifold.

Operations:

- When equipped with a detergent supply line the PCT/ADW acts as an internal washer to cleanse cylinders of oils, scale, or other foreign substances.
- A PCT-I (inspection) model is available to simply clamp and invert acetylene cylinders to inspect the bottoms and exterior walls.

PCTI is Pneumatic Only – No Electricity



NOTE: The PCT/ADW Inverter Dryer requires a Commercial Hot Water heater capable of supplying 180°F water and having a minimum capacity of 90 gallons.

Emergency E-Stop



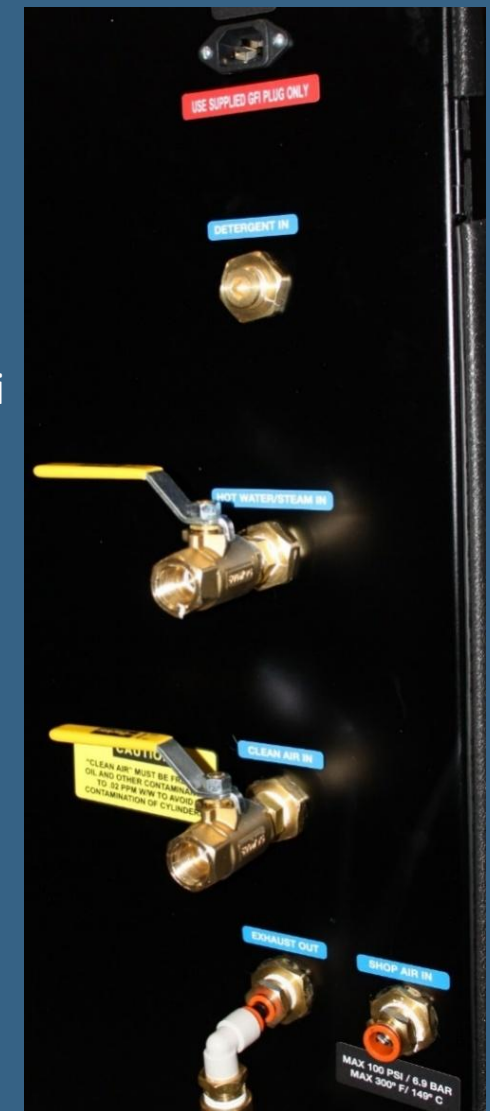
Steam rated @ 284°F/90psi



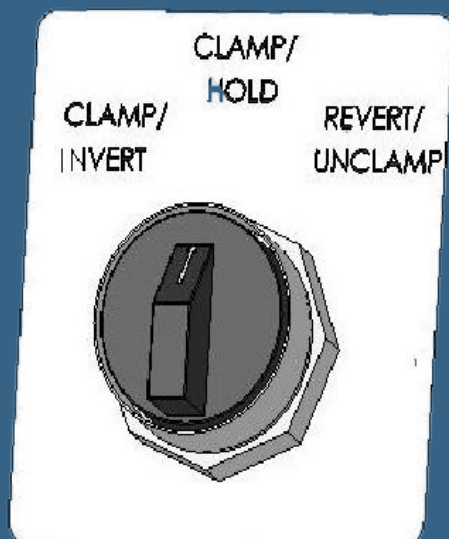
Sealed EZ Swap bearings



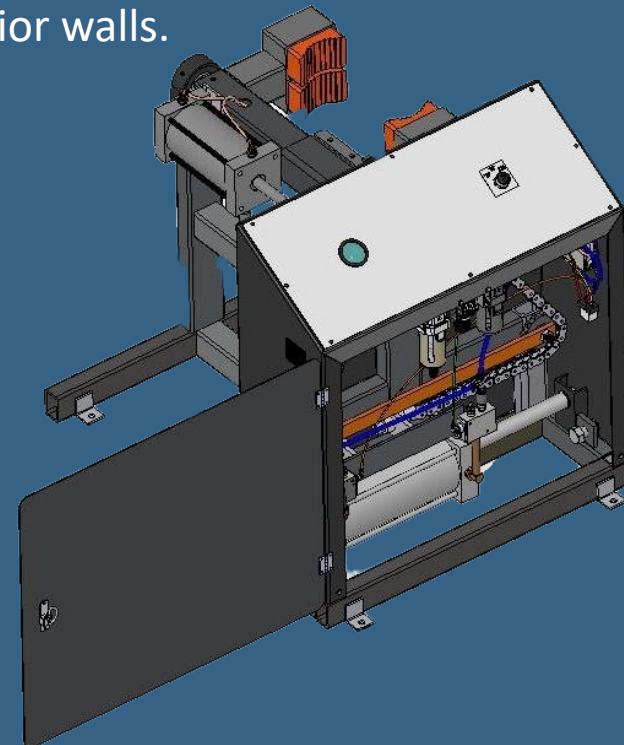
PLC Visual Interface

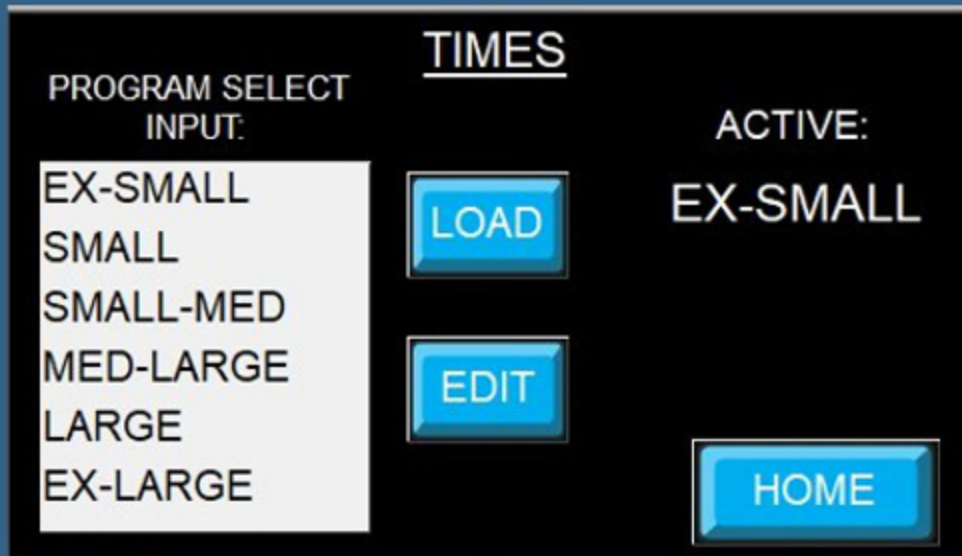


ADW Electrical: 110 Volts, 60 Hz., or 220 Volts, 50 Hz, Air: 100PSI @ 22 CFM, Water: 10 GPM @ 60 PSI, Hot Water: 10 GPM @ 60 PSI, Maximum Allowable Steam: 284°F/140°C @ 90psi



PCT-15I

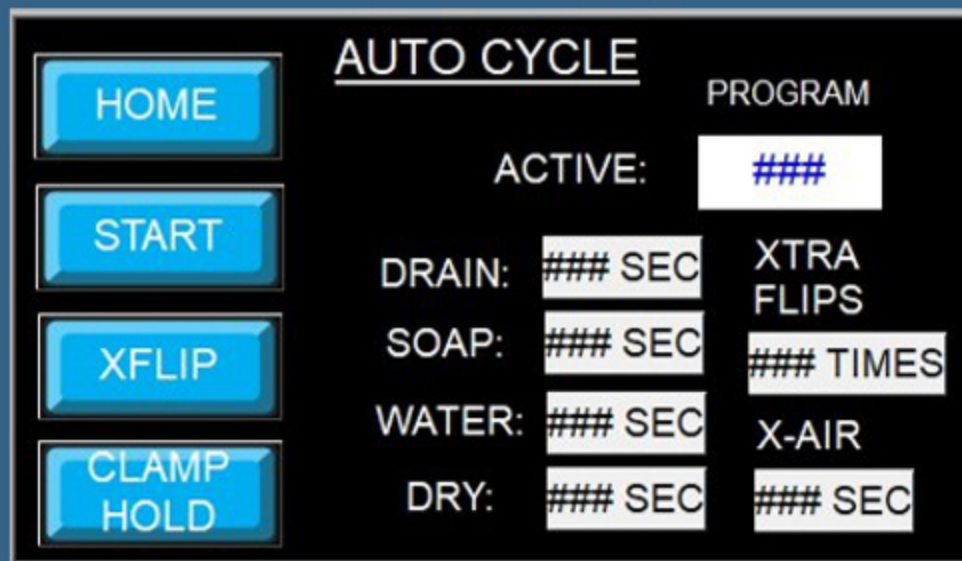




Six different recipe settings can be used. Once loaded then start button will begin the cycle



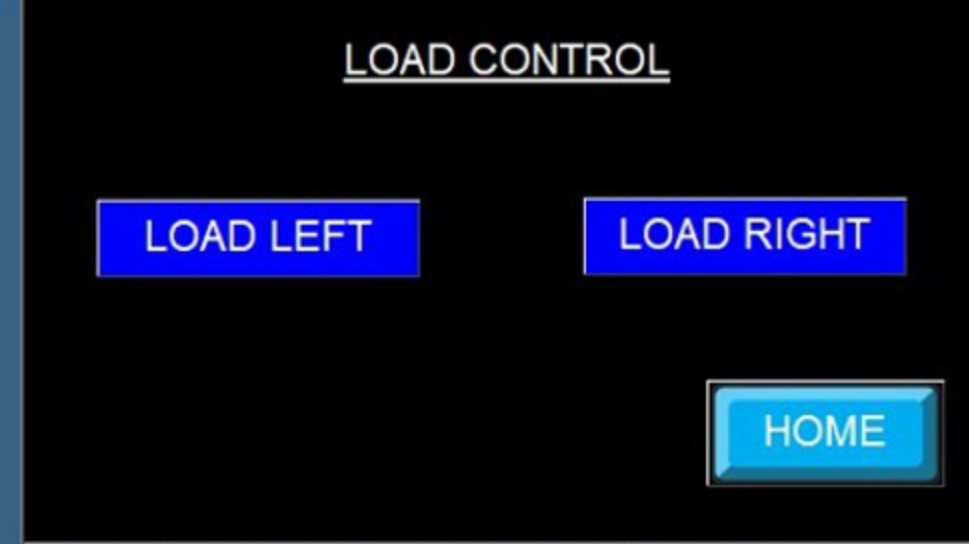
Customize the times for Drain Air, Hot Water, Soap injection, Dry Air



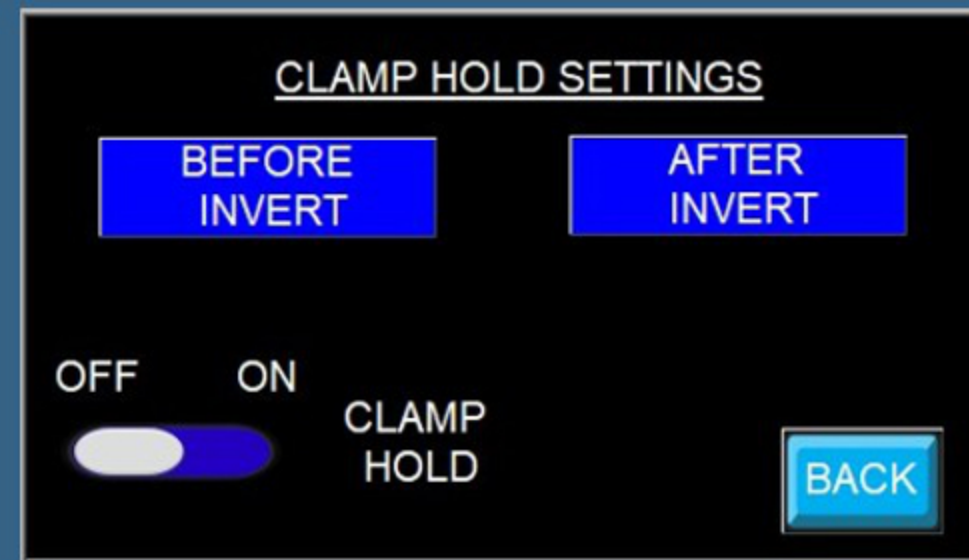
PCT Cylinder Inverter Touchscreen Interface



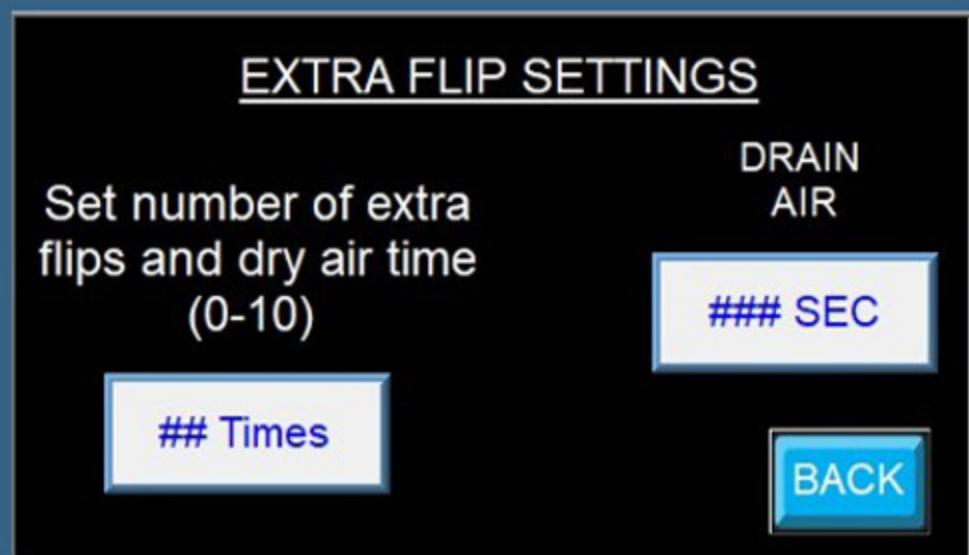
Extra Flips commonly used on welded seam cylinders to remove moisture from weld seam by forcing beaded water across hot surface of cylinder wall



Invert direction - has been made easier to change onsite. Load left clamps on left inverts to right. Load right clamps on right inverts to left.

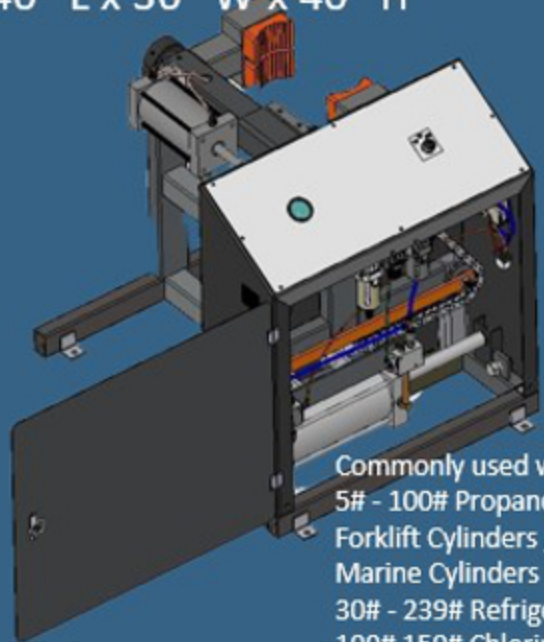


Cylinders can be held before or after drain dry cycle. Useful when dealing with round bottom cylinders or stamping cylinders after dry



PCT Cylinder Inverter Dryer Varieties

PCT-15ADW and PCT-15I
 1x 4"-15.2" cylinder up to 60" T
 400lbs Total invert capacity
 40" L x 36" W x 40" H



Commonly used with:
 5# - 100# Propane
 Forklift Cylinders , Mower Cylinders
 Marine Cylinders
 30# - 239# Refrigerant
 100# 150# Chlorine
 5# - 100# CO₂
 ISO&DOT High Pressure Cylinders
 Type I, II, III, IV CNG
 Aviation Cylinders 22cf - 114cf
 Medical Cylinders D,E,M

PCT-162ADW and PCT-162I
 2x 6.5"-16" Cylinders up to 60" T
 800lbs Total invert capacity
 60" L x 36" W x 48" H



Commonly used with:
 5# - 100# Propane
 Forklift Cylinders , Mower Cylinders
 30# - 250# Refrigerant
 100# 150# Chlorine
 10# - 100# CO₂
 ISO&DOT High Pressure Cylinders
 Type I, II, III, IV CNG
 Aviation Cylinders 22cf - 114cf

PCT-24ADW
 1x 24" Cylinders up to 60" T
 1,600lbs Total invert capacity
 60" L x 36" W x 40" H



Commonly used with:
 200# Propane

PCT-30ADW Top Load
 1x 30" Cylinders up to
 1,400lbs Total invert capacity
 60" L x 36" W x 55" H



Commonly used with:
 420 Propane
 1/2Ton Refrigerant

PCT-122ADW and PCT-122I
 2x 3.3"-12.2" Cylinders up to 60" T
 800lbs Total invert capacity
 60" L x 36" W x 40" H



Commonly used with:
 5# - 100# Propane
 Forklift Cylinders , Mower Cylinders
 Marine Cylinders
 30# - 123# Refrigerant
 100# 150# Chlorine
 2.5# - 100# CO₂
 ISO&DOT High Pressure Cylinders
 Type I, II, III, IV CNG
 Aviation Cylinders 4cf - 114cf
 Medical Cylinders B,D,E,M

PCT-162ADW-XL
 2x 6.5"-16" Cylinders up to 72" T
 1,600lbs Total invert capacity
 60" L x 36" W x 48" H



Commonly used with:
 40-145 liter CNG
 Type I - IV Composite

PCT-30ADW Side Load
 1x 30" Cylinders up to
 1,400lbs Total invert capacity
 60" L x 36" W x 70" H



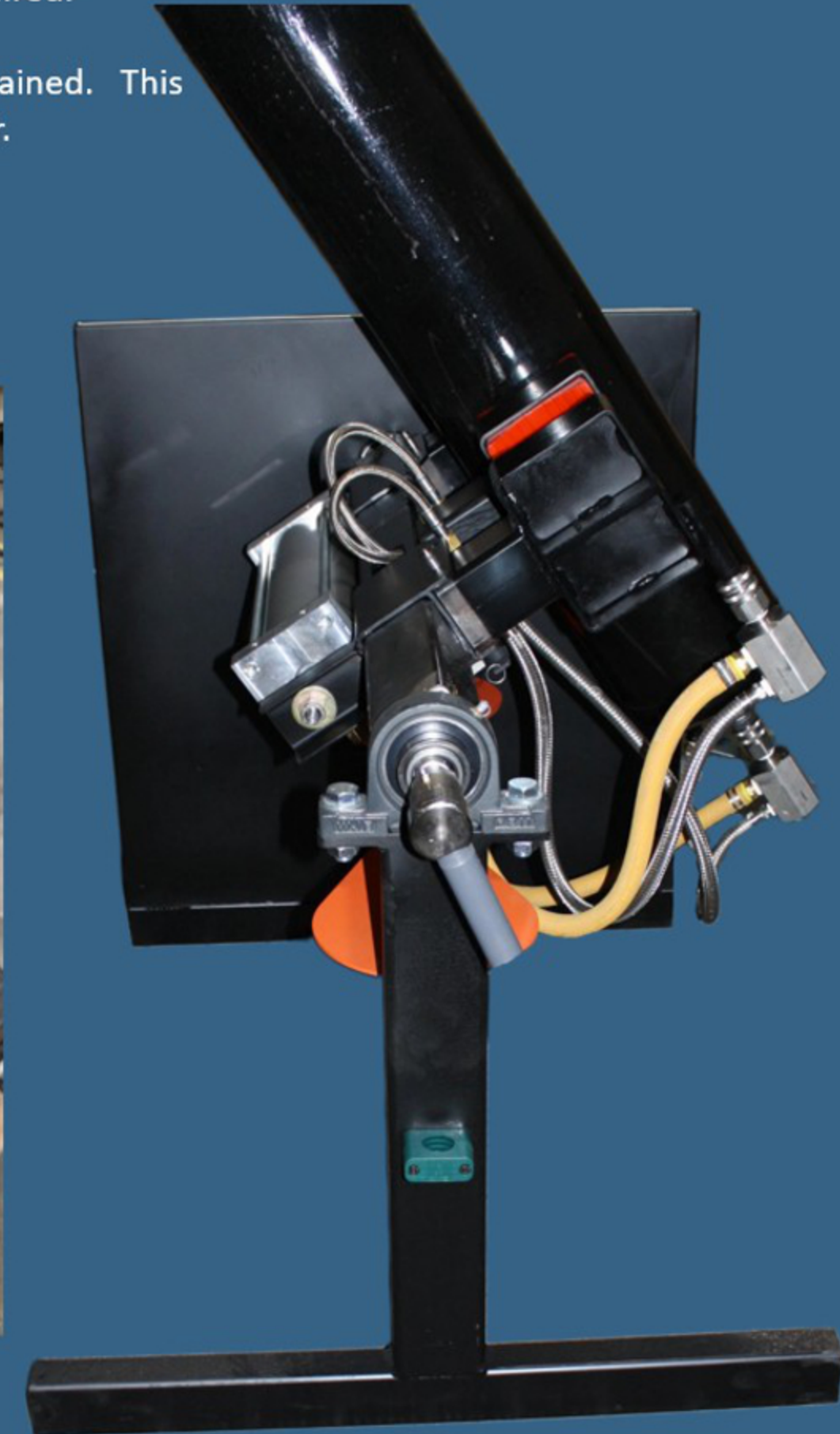
Commonly used with:
 420 Propane
 1000lb Refrigerant

(Shown With 6" Riser Option allows invert from 60" Up to 72" Tall cylinders)

"Pitless PCT"

Introducing the Galiso "Pitless" PCT. This inverter operates the same as our standard PCT but contains the entire process and is piped out.

- Contains the spray and diverts it through Customer piping to remote location.
- No Test Pit required.
- Noise is drastically reduced.
- Containment of process flow. Some Customers handle volatile chemicals that are better contained. This allows the process flow to be diverted straight to the scrubber rather than atomized into the air.



Medical Cylinder Accessories

Clean Air Filter Package provides clean dry air for your cylinder drying package. This takes in your compressor air and filters the air to an ISO8573 Class 1.



Product Data Sheet

SD-13 DETERGENT FOR OXYGEN CLEANING

SD-13 is a specially formulated, free-rinsing, low foaming, biodegradable, phosphate free detergent developed for cleaning compressed gas cylinders prior to filling with oxygen. Extensive research and field and laboratory testing has shown SD-13 to effectively remove oils and most other contaminants from inside compressed gas cylinders.

SD-13 was designed to be used in conjunction with an inverter/washer such as the Galiso PCT-122ADW

Directions for use:

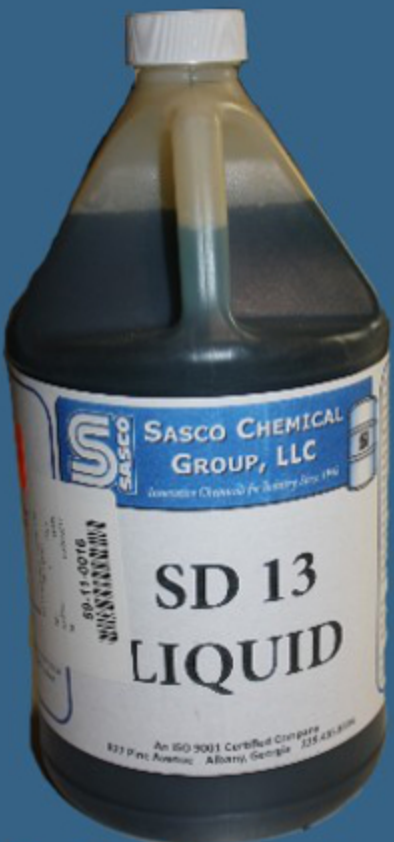
Inverted Cylinder Cleaner

1. Inspect cylinder. Remove any loose debris and rust from inside cylinder.
SD-13 will not remove flaky scale or rust.
2. Dilute 4.25 ounces SD-13 with 1 gallon of water.
3. Solution temperature should be 170°F.
4. Wash cylinder for 4 minutes with the solution.
5. Rinse with clean, 170°F water for 4 minutes.
6. Purge with nitrogen for 45 seconds.

Available in
5 gallon buckets
30 and 55 gallon
drums

Sonic Wave Cleaner

1. Dilute 4.5 to 5.5 ounces SD-13 with 1 gallon of water.
For best results, water should be at least 130°F
2. Place parts and solution in sonic cleaner and operate according to the manufacturer's specifications.
3. **Thoroughly rinse all parts well with clean flowing hot water until there is no visible suds or soap residue.**
Rinsing in a tub or bath is not acceptable.
4. Blow all parts dry with air and purge with nitrogen.



SD-13 Detergent for cleaning cylinders

Adsorption Elements Features and Benefits Type D

How The Elements Work
While mechanical filtration capturing the Type C element is capable of removing extremely fine liquid or solid particles as small as 0.01 micron it cannot remove gaseous contaminants such as oil vapor or odor. To do this we must employ the physical phenomena of adsorption. Activated carbon, having an affinity for oil vapor molecules and with an extremely high surface area, created by its capillary structure, is used for this.

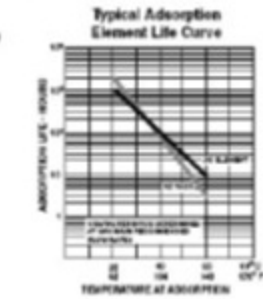
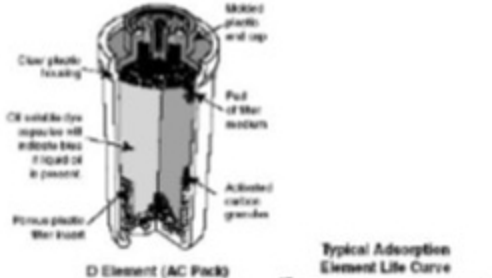
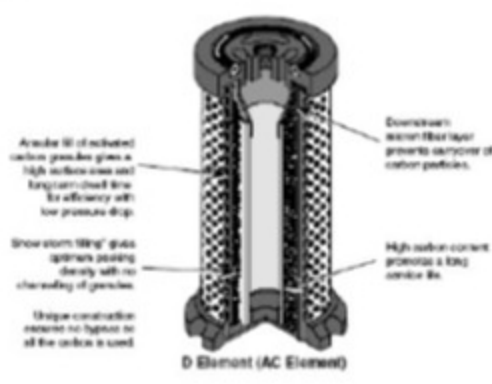
Wilson activated carbon elements are designed to maximize the adsorptive properties of the carbon. This is achieved by first passing the oil through carbon granules, then down "fin" into either an annular space or tubular section. The granules provide an extremely high surface area to volume and when arranged in a deep bed that increases flow time gives the benefit of both a dilution and surface area. After being passed through the carbon, the air goes through a layer of mesh fiber to prevent migration of fine carbon particles downstream.

Adsorption elements have a limited life and this is affected by many factors but principally temperature. Obviously, the higher the air temperature, the more of vapor there is present, for example at 104°F (40°C) there is more than ten times the oil vapor than at 70°F (21°C). For this reason, adsorbed carbon filters are best installed at the lowest possible system temperature. The Type C filter should always precede a Type D filter.

The typical life of an adsorption element is in the region of 1000-2000 hours at 70°F (21°C). Flow rate temperature is based on tests carried out on a C6 carbonized test rig, however, this is best determined in practice by a routine "color" check.

Oil vapor has a distinct odor, the user separates and very effective way to check for oil vapor getting through the filter is to install a small bleed valve downstream. Periodically crack this valve and smell the air. The human nose is extremely sensitive to oil vapor and at the first hint of the odor, change the element.

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Type B Filter Element Specifications	Type C Filter Element Specifications	Type D Filter Element Specifications
Efficiency 99.97% when tested with 0.3 micron aerosol per Federal Standard 209E. Compatible with mineral and synthetic oils.	Efficiency 99.9999% when tested with 0.3 micron aerosol per (Acetylene) (OOP) test according to Federal Standard 209E. Compatible with mineral and synthetic oils.	Efficiency Less than 0.001 ppm / wet maximum remaining of constant (OOP) temperature / pressure of 70°F / 100 PSIG when subjected using the Pressure Test procedure removal of hydrocarbon vapors and odors.
Residual Oil 0.5 ppm / wet (at temperature / pressure 70°F / 100 PSIG) when analyzed using infra red spectrophotometry based on the Pressure 9611 procedure.	Residual Oil 0.01 ppm / wet (at temperature / pressure 70°F / 100 PSIG) when analyzed using infra red spectrophotometry based on the Pressure 9611 procedure.	Air Quality Class * Conforms to ISO 8573, better than Class 1
Air Quality Class * Conforms to ISO 8573 Class 2 or better	Air Quality Class * Conforms to ISO 8573, better than Class 1	Flow Inlets to outside
Flow Inlets to outside	Flow Inlets to outside	Filter Media Sieve screen mesh activated carbon for optimum packing density and life.
Filter Media Reticulated porous ceramic glass microfiber with a mean strand diameter of 0.5 micron and a void volume of 90%. Contains no glass or silica.	Filter Media Reticulated porous ceramic glass microfiber with a mean strand diameter of 0.5 micron and a void volume of 90%. Contains no glass or silica.	Support Structure Glass fiber support structure.
Support Structure Inlet and outlet 304 Stainless Steel support cylinders with outer polymeric sleeve.	Support Structure Inlet and outlet 304 Stainless Steel support cylinders.	End Caps Glass fiber polymeric material. Inlet Differential Pressure Dry — 1.5 PSID Inlet Differential Pressure Wet — 2.5 PSID Flow range — 5 to 400 SCFM @ 100 PSIG
End Caps Glass fiber polymeric material. Inlet Differential Pressure Dry — 1.5 PSID Inlet Differential Pressure Wet — 2.5 PSID Flow range — 5 to 400 SCFM @ 100 PSIG	End Caps Glass fiber polymeric material. Inlet Differential Pressure Dry — 1.25 PSID Inlet Differential Pressure Wet — 2.25 PSID Flow range — 5 to 400 SCFM	Application Installation after high efficiency coalescer for pressure air purification, odor removal, removal of toxic vapors and for critical applications.
Application Installation as a coalescing prefilter for general purpose protection or as a prefilter to a high efficiency coalescer.	Application Install where highest quality air is required, typically instrumented, process air, pneumatic gauging, gold spraying, etc.	Application * "W" Series Adsorption Filters, with Type "B" activated carbon elements. All Wilson Type "W" Oil Vapor Coalescing Filters with Type "C" carbon elements exceed ISO Class 1 for maximum particle size and concentration of solid contaminants and exceed Class 1 on maximum of content (ppm / wt).
Appearance White polymeric outer sleeve with black end caps.	Appearance * "W" Series Coalescing Filters, with Type "B" carbon elements. All Wilson Type "W" Oil Vapor Coalescing Filters with Type "C" carbon elements exceed ISO Class 2 for maximum particle size and concentration of solid contaminants, and exceed Class 2 on maximum of content (ppm / wt).	



*Optional Dosing Pump



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(800)854-3789 (970)249-0233

Manufactured exclusively for Galiso, Inc. by SASC Chemical Group, Inc.
For further safety information concerning this product, please consult the Material Safety Data Sheet.

