

# RESTORATION DIRECT, INC.

RESTORATION CHEMICALS AND APPLICATION EQUIPMENT  
6301 CHELTON AVENUE. HARRISBURG, PA 17112

## COBRA-AIR SPRAYER

MODEL CACO2ACW -2010 DUAL PUMP MODEL-  
START UP INFORMATION

**SERIAL # CA-C02-\_\_\_\_\_ Manufactured date: \_\_\_\_\_**

**OWNER: \_\_\_\_\_**

SELF CONTAINED WATERPROOFING SPRAYER SYSTEM. YOU'VE PURCHASED IS THE BEST LOW PRESSURE HARSH CHEMICAL SPRAYER AVAILABLE.

**UNPACKING:** Take the unit from the skid and check to see that it has arrive complete and undamaged. You should have received

- ✓ A waterproofing sprayer with wheels & on-board compressor.
- ✓ Box containing two hoses. 75 & 125 ft & quick disconnects.
- ✓ Two wand assemblies ; ( **Set-up for spraying everything.** )
- ✓ Suction tube assembly: Extra gray tube is for 55 gal drums)
- ✓ "Y" Splitter assembly for two operator chemical spraying.
- ✓ **Larger SPARE PARTS KIT** : ( **First components you may break** )

**INITIAL START-UP:** Your compressors tank already has air to test your sprayer without plugging the power cord into a outlet.

**Your sprayer is totally self-priming. Nothing is required.**

- ✓ **Get a pail of clean water for testing your spraying system and to understand exactly how it functions prior to taking it to work on your first job-site.**
- ✓ **SUCTION TUBE ASSEMBLY:** The assembly is packaged together. Take the gray tube with the black filter canister at the top and attach the 7 ft blue braided hose and tighten the hose clamp. This should be quick-connected to the marked male INLET fitting on unit.

- ✓ THE SECOND GRAY TUBE is to allow you to reach to the bottom of a 55 gallon drum and not have the pick-up end float or move off the bottom. Just screw off the plastic bottom elbow and connect the gray tubes. The elbow keeps your tube from sucking to pail bottom.
- ✓ Don't remove this elbow unless you provide a method to keep the tube from sucking to the pail or drum bottom.

**DISCHARGE HOSE:** The front of your machine has a flexible outlet marked DISCHARGE . Quick couple one of your large blue discharge hoses to this outlet. **MAKE SURE IT HAS CONNECTED.** Now take one of your black plastic wands and assemble it with the trigger lever on the bottom when being held for spraying. **AVOIDS TIP MOVEMENT AS YOU SPRAY.**

**TEST SPRAYING WATER:** Turn your machine on as follows:  
PLACE SUCTION TUBE IN BUCKET OF CLEAN WATER.  
YOU HAVE DISCHARGE HOSE ON SPRAYER WITH WAND.  
NEXT LOOK FOR BRASS BALL VALVE/ YELLOW HANDLE OPEN THIS VALVE. ....**TURN YOUR LEVER TO THE ON POSITION.**  
YOUR PUMP WILL NOW PRIME ITSELF. SQUEEZE THE WAND HANDLE AND SPRAY BACK INTO THE BUCKET UNTIL THE AIR BUBBLES ARE GONE. **If bubbles continue you have a suction side air leak causing the bubbles. Hold spray tip under water in test pail to see bubbles. It works but air causes sputtering spray.**

EXPERIMENT WITH DIFFERENT SIZE TIPS FOR CHANGING OUTPUT GALLONS PER MINUTE. THE TIPS ALSO PROVIDE YOU PATTERN ADJUSTMENT BY ROTATING NOZZLE TIP.

**CAUTION; Too fine a pattern & higher pressure creates overspray & drifting.(Spray best 20-35 PSI medium pattern).**

**CONTROLS:**

- The 22 foot yellow compressor power cord has a ground fault protector with a light that must be "ON" for the compressor to run. Your compressor unit will turn on automatically when Tank Pressure goes below low limit.

**COMPRESSOR ON/OFF:** The ON/OFF switch is on the side of your black plastic compressor unit. Switch "ON" and the compressor unit will turn itself on automatically anytime the tank pressure drops below 120 PSI and pump up to 150 PSI.

**SPRAY PRESSURE CONTROL:** The gauge for reading your spray pressure is located on the front panel of your machine. **NOTE THAT PRESSURE SETTINGS ABOVE 90 PSI CAN AND WILL DAMAGE YOUR PUMP.** The pressure adjust regulator is mounted directly below the gauge and has a push-in locking feature. Be sure it is pulled out otherwise the adjustment knob will be very difficult to turn and adjust spray pressure.

**FILTER ASSEMBLY:** The airline filter bowl has a self dumping feature that releases any water accumulation in the filter bowl. This dumping action happens each time the pressure is removed from the air system. AIR OFF and it SELF-DUMPS.

**AIR OUTLET CONTROLS:** The gauge and pressure regulator are mounted on lower left on black base. This allows you to adjust the air outlet pressure independently of the pump controls. The air regulator is a square blue/black regulator. Air tool line can be operated up to 150 PSI max pressure.

*This outlet is for air tools at intermittent usage only .*  
**FRONT CENTER SPRAY PRESSURE GAUGE MUST BE TURNED DOWN TO ZERO PRESSURE IF YOU'RE RUNNING ANY AIR TOOLS.**

NEVER CLEAN YOUR MACHINE WITH XYLELENE, TOLUENE, or MEK OR FLAMMABLE LIQUIDS. Chemical you spray must not contain these.

**SUCTION SIDE FILTER:** Marked with black/yellow label "SUCTION FILTER". Clean as necessary or every 6 months. All dirt travels up thru the center and will be inside the screen when you clean this unit. It is large. Clogging is unlikely unless sprayer filter cleaning over time is neglected.

## NEAT TRICKS & TROUBLESHOOTING

- Extension cords: 50 foot maximum with #12 or #14 wire minimum  
**NO WARRANTY REPLACEMENT OF: YOUR FAULT CAUSED LOW FEED VOLTAGE TO COMPRESSOR MOTOR FAILURES.**
- You can fill the compressor tank with air at your shop for jobsites where power is not available. Set air pressure at 25 PSI and you can spray 8+ gallons of liquid without a power source.
- If you are working with two operators at the same time and the system cannot keep up with your spraying needs ..... reduce your air pressure if possible. **Your compressor can keep up much longer spraying at 25 PSI than at 90 PSI.** This is more likely to become a problem with waterproofing companies applying high volumes of material with two or more employees as simultaneous applicators.
- Your machine can run dry longer at lower pressures without harm. The secret to getting maximum pump life is to normally run your sprayer at 35-45 PSI and slow the pump with the yellow OFF/ON switch when allowing the pump to blow the liquid from your hoses. **The switch will be dumping some air around the yellow slider when you do this slowing action during line cleaning. It causes no harm.**
- Many products will be water based and the system can be flushed with 2-3 gallons of water after use. If the product doesn't break down in water use 3/4 to 1 gallon mineral spirits to flush lines.
- **NEVER** use a compressor that isn't "OILESS" Oil type compressors last longer and have great performance but pump trace oil into the pump mechanism. Oil can gum pump mechanisms and cause failure.
- **REALLY COLD WEATHER KILLS PUMPS:** 45 Degrees F Minimum.

- ~~SPECIFICATIONS: THIS ISN'T OUR COLD WEATHER SPRAYER~~
- ~~CA-20 SPRAYER PUMPS CAN BE REBUILT BUT VERY COSTLY~~
- LIQUID & PUMP TEMPERATURE: 45 to 100 degrees Fahrenheit.
- DRY PRIMING: SUCTION 10 FEET HEIGHT / 25 FOOT HOSE.
- PUMP AIR SUPPLY: 20 MINIMUM to 90 MAXIMUM PRESSURE
- FLOW RATES: 1 QUART / 3 GALLONS PER MINUTE MAXIMUM
- WORKING HEIGHT: AT 90 PSI YOU CAN REACH 15 FLOORS.

WARRANTEE: WE FEEL THAT OUR SYSTEMS ARE THE WORLDS BEST. Based upon this we've improved our *COBRA-AIR* warrantee to "1 year Regardless of reason" for your *COBRA-AIR* failure. Compressor motor excepted

## COBRA-AIR BENEFITS AND FEATURES

- You Can Work 10+ Floors From Ground
  - Includes On-Board Air-Compressor
  - Adjustable Pressure 18 - 90 PSI
  - Output: Spray 1 Quart to 3 Gallons/Minute
  - Wheeled/Portable at less than 85 Lbs.
  - Spray With Up To 300 Foot long Hose
  - Range Of 3 Spray tip sizes are included.
  - Safety: GFI & Safety Quick Connects.
  - Sheet Metal Except Cart is Stainless Steel
  - 2 Operator Ready ( Free Adaptor Assembly)
  - Sprays The Largest Range Of Chemicals
  - 1Year "Regardless Of Reason Warrantee" \*
- \* Only low voltage compressor failures exempted.

## PROFESSIONAL SPRAYER SYSTEMS

### APPLICATIONS FOR OUR SPRAYERS

A Partial list of the things being done by our customers

- New Brick & Block Cleaning. 3,000-4,000 Sq Ft Per Day
- Spray Old Dirty Masonry, Brick, & Stone Cleaners
- Spray Most Concrete Curing Agents & Sealers
- Wash Down Cast in Place & Tilt Up Concrete Panels
- Spray Deck, Fence, & Shake Cleaners & Preservatives
- Apply Waterproofing Better & Faster Than Competitors
- House Washing Chemicals & Gutter Zap Application
- Truck Wash, Pre-Soak Aluminum Brightener Chemicals
- Applies Rust & Iron Stain Removers.
- Spray Efflorescence Removers on Stone/Brick
- Applies Gas Station & Bank Drive-Through Cleaners
- Carpet, Restaurant Duct & Hood Cleaners
- Apply Cemetery Marker Cleaners & Burial Vault Sealers
- Apply Terra Cotta Tile Roof And Granite Cleaners
- Spray Warehouse Floor Cleaners & Etching Chemicals
- Spray Grease Cutters On Heavy Construction Equipment
- Spray Mold Release Agents on Concrete Forms.
- Spray Stucco and EFIS cleaners / Sealers.
- Spray Bactericides, Mold, Mildew, Solutions.
- Spray Glazed Tile and Stucco Cleaners
- Spray Masonry Anti-Graffiti Protection Coatings
- Heat Exchanger Tube Cleaners. Extra Filter Required
- Apply Cleaners To Walls & Exposed Vertical Concrete
- PLUS YOUR SPECIAL APPLICATION \_\_\_\_\_

QUESTIONS: Call Bob Port @ 1-800-288-7800

**After Hours & Weekends: Bob's Cell 1-717-343-6985**