

SAFETY INSTRUCTIONS & SAFETY FACTS – Your safety is very important to the manufacturer. PLEASE READ CAREFULLY.

CARBON DIOXIDE FACTS

A CO₂ cylinder is filled with liquid CO₂ by weight. At the time of fill, the temperature of the charge is extremely cold and the pressure is around 100 psi (pounds per square inch). When a fully charged CO₂ cylinder warms up to room temperature (70° F), the pressure inside the cylinder increases to 837 psi.

When the same cylinder reaches 87.9° F the charge becomes a gas no matter what the pressure. A fully charged CO₂ cylinder at 87.9° F will have an internal pressure of approximately 1100psi.

At 120°F the same cylinder will have an internal pressure of nearly 2000 psi. This cylinder at 120° F now has an internal pressure greater than the marked service pressure of a cylinder that is properly filled (not overfilled).

When the temperature of the fully charged cylinder increases, the pressure increases. At 155°F the same cylinder will reach a pressure of 3000 psi, a pressure great enough to activate the safety vent on the valve, venting the CO₂ charge. THIS IS NORMAL AND DESIGNED TO HAPPEN. You will hear a loud noise and sudden subfreezing spray of CO₂ will release through the pressure relief device. This temperature can easily be reached in many different environments. (Parked vehicles, metal storage sheds, etc) Unexpected venting of a cylinder through its safety can be startlingly potentially leading to accidents, property damage, or personal injury. Coming into contact with the venting of the CO₂ charge of a cylinder can cause personal injury such as frostbite. Allow the cylinder to fully vent before handling. Exit the closed environment and allow the area to properly ventilate. After the safety relief device is ruptured it will need replacement. Your Carbon Dioxide supplier will have replacements as this can be quite common with CO₂ cylinders. When using, handling, transporting, and storing a CO₂ cylinder always be aware of the temperature to which the cylinder will be exposed. This is not just the temperature the cylinder is exposed to but also the maximum temperature that the cylinder will be exposed to at any time. The Source along with the CGA (Compressed Gas Association), recommends that CO₂ cylinders not be used at temperatures exceeding 120° F.

SOURCE™ SYSTEM SAFETY PRECAUTIONS

- Do not expose your SOURCE™ tank to any heat source, open flame, or any condition where temperature is in excess of 300° F. All SOURCE™ tanks introduced to 350°F, fire damage, arc burns, refinished with heat treated paint or powder coating must be condemned and/or hydrostatically tested. Please call your Carbon Dioxide supplier for more information.
- Do not over fill your SOURCE™ system. Only fill your SOURCE™ system to the specified weight at certified filling station by a well trained technician.
- Inspect the SOURCE™ everytime it is filled. Look for dings, gouges, cuts and corrosion. If any of these conditions are found, release the gas from the tank and contact a certified hydrostatic tester. Your Carbon Dioxide supplier can assist with referrals.
- The SOURCE™ must be re-certified by a hydrostatic tester every 5 years from the manufacturer date. This is mandated by DOT.
- Do not mount your SOURCE™ system in any position vulnerable to puncture, protruding objects or where the valve and regulator can be interfered by a foreign object. Make sure your SOURCE™ system is located where it is clear of debris, dirt and mud to assure proper operation and safety.
- Do not use oil or lubricant of any kind on the valve, regulator and any component of the SOURCE™ system as this can be dangerous and cause damage.
- Never attempt to remove the on/off valve from the cylinder. This can be done by certified technicians.
- Do not use stripper or caustic cleaners on your SOURCE™. If you need to repaint, spray enamels can be used. DO NOT HEAT TREAT.
- Check you SOURCE™ system for leaks. Do not continue use if leaks are detected. Please contact your Carbon Dioxide Supplier for further instructions.
- Do not use the SOURCE™ in any position other than upright in a vertical position. The SOURCE™ operates off the gas (cylinder head pressure) and if used in any other position, this will introduce liquid through the valve, regulator and hose causing damage to your SOURCE Hyperflo regulator and your tools.
- When the SOURCE™ is used extensively for long periods, freezing will occur. Please be aware when this occurs and only use the carry handle for transporting the tank.
- Never pressurize the regulator before connecting your hose or accessory. Always purge/bleed the residual of the gas in the hose assembly before disconnection. Carbon Dioxide expands with changes in temperature. Trapped CO₂ can expand and exceed the working pressure of the hose assembly rapidly causing premature bursting of the hose assembly.

WHERE DO I GET THE SOURCE™ SYSTEM FILLED?

Most welding supply shops, fire extinguisher service/supply shops and beverage supplies can fill your SOURCE™ tank. Check the phone directory. Some can fill them while you wait and others will ask you to leave it to be filled. When you take your SOURCE tank in to be filled, remove the regulator.

Make sure they don't try and do a "trade" and send you on your way. Your SOURCE™ is well taken care of and their tanks will not be as cosmetically pleasing. Your Source is marked appropriately for the service intended.

Call Cramer Decker Industries at 800.752.4579 anytime for filling advice or check these informative resources:

- www.weldmark.com
- www.welders.to
- www.worldprotools.com/co2_refill_station_locator.php
- www.warpig.com

WARRANTY

OffRoadAir SOURCE™ systems come with a TWO year free replacement / repair on any manufacturer defective component. The SOURCE™ uses minimum moving parts and if used correctly, can last for the lifetime of your trade and/or hobby! We stand strong behind our product. We know its durable, won't burn up, seize up and needs minimal maintenance. JUST KEEP IT CLEAN. If you feel the SOURCE™ is not working properly, please call The SOURCE for assistance.

ACCESSORIES



**Part # OA-FLB
The Floor Stand w/ Detachable Vehicle Bracket** is made of heavy duty aluminum alloy with a hammered powder coated finish complete with padded rubber feet, and aluminum safety strap. The vehicle mounting bracket converts to a handy floor stand.

**Part # OA-RAFTER
The Rafter Bracket** holds 5lb, 10lb, and 15lb tanks and is made of heavy duty aluminum alloy with a hammered powder coated finish with a welded secure bottom plate. Ideal to hang from scissor lifts, rafters, joists, ladders, etc.

**Part # OA-VBAG
The Source Carryall Bag**
Fits 5#, 10# and 15# size systems, heavy duty padded weather resistant canvas, two storage pouches, carryall handle, and shoulder strap.



**High Performance Portable
Air System
The Silent Compressor**

Cramer Decker Industries
1641 East St Andrew Place, Santa Ana, CA 92705
800.752.4579 • Fax 714.566.3850 • www.cramerdecker.com



OWNER'S MANUAL

**High Performance Portable
Air System
The Silent Compressor**





INSPECTING THE SOURCE™ SYSTEM

Inspect your SOURCE™ System for any damage during shipping and that all components are packaged properly. Everything should be secured with the special box and no items shall be loose. Lift the security cardboard. Remove the white box containing the HyperFLO Max regulator and the plastic bag containing the COMP-Flex hose assembly. Pull on the handle to remove the Source tank out of the box vertically. The mounting bracket is already attached to the SOURCE tank.

Common Source Systems* have the following:

- 10# CO₂ SOURCE™ tank with protective carry handle and Carbon Dioxide brass valve installed.
- Aluminum Hyper-Flo™ Max regulator with liquid filled gauge and quick connect
- 20' black reinforced COMP-flex™ coil hose with quick-connects
- Basic Air chuck (attached to coilhose)
- HEAVY DUTY trail worthy bracket
- Instructions and Sticker

*Specialty packages may include other components listed on the box.

MOUNTING THE SOURCE™ SYSTEM

All SOURCE systems are shipped with HEAVY DUTY vehicle brackets. These brackets are used to securely mount your SOURCE™ system in any position imaginable. The brackets are drilled on the base and back plates to permit many options. **NOTE: The SOURCE™ must be at least 30 degrees upright angle to work correctly.** It is recommended that you mount in a vertical position to limit unnecessary handling before use. Please see Safety Instructions for more information. The SOURCE™ Tank should mount secure without movement. You can test by holding the handle and shake with force. Adjust straps if necessary.

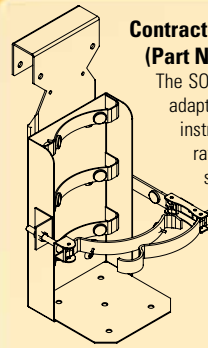
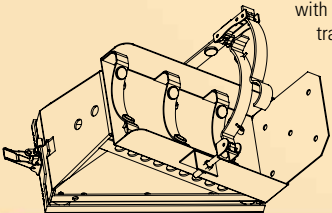
MOUNTING TIPS

- Mount the SOURCE™ in any accessible position easy to change out tanks, but clear from your daily needed storage space.
- Place bracket in desired position and mark holes through manufactures pre-drilled mounting holes with felt marker. (Inspect all details of the vehicle before attempting to use the drill)
- Short sheet metal screws will securely mount your SOURCE™ in position. Use as many holes as possible for a secure mount in all rough conditions. If backside of mounting surface is accessible, then bolt and nut mounting is highly recommended.

MOUNTING BRACKET ACCESSORIES (Not included)

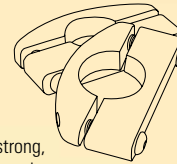
Contractors Floor Mount System (Part Number # OA-FLB)

The SOURCE offers a heavy duty floor mount system which adapts to the included SOURCE vehicle mount system. Detailed instructions are included with the purchase for set up. The contractor floor mount system includes a base plate vehicle mounting system and uniquely engineered angled floor bracket to move the SOURCE safely around job sites and work shops.



Contractors Rafter Mount System (Part Number # OA-RAFTER)

The SOURCE offers a heavy duty rafter mount system which adapts to the included SOURCE vehicle system. Detailed instructions are included with the purchase for set up. The rafter bracket is designed to safely hang your SOURCE system from wooden rafters and scissor lifts making the SOURCE extremely portable.



OffRoadAir Roll Bar Clamps

Mount your SOURCE™ out of the way and secured strong, ready to use with the SOURCE billet aluminum roll bar clamps.

Adapts to part # OA-BRACKET10/15 (standard brackets) without any drilling. (Some drilling required on 5# & 20# sizes)



SETTING UP THE SOURCE™ SYSTEM FOR USE

1. Secure the SOURCE™ tank into the bracket. Close the tank strap. Tank should be secure and not allow movement. If tank is easily moved, then adjust tank restraints until tank is secure.
2. Attach the Hyper-Flo regulator to the tank outlet being sure the quick connect faces downward. Tighten the brass regulator nut clockwise (right) until you can no longer hand tight. Do not use any additional washers or seals supplied by the Carbon Dioxide supplier. Your SOURCE is supplied with a reusable tank seal inside the regulator nut. Use an adjustable wrench to tighten. Do not overtighten to assure longer life of the PERMA-SEAL regulator tank connection.
3. Connect the COMP-Flex hose to the regulator quick connect. Pull back brass quick connect, insert hose end and release for secure lock. Final end of hose will be equipped with a basic tire chuck.

VERY IMPORTANT! Your SOURCE™ System was designed for use sitting upright. It may be stored in any position when not in use. Please be sure to read Safety Instructions and Mounting Information for more facts. Please note this is also valid when carrying the SOURCE™ to another remote location. Always Have The SOURCE™ secured or safely upright when in use. DO NOT LAY ON ITS SIDE IN USE.

4. Open the valve very slowly counter clockwise (left) to full open position. Be sure to inspect all the quick connects and hose for damage or leaks. Listen for any escaping gas.

Regulator Performance Specifications

Inlet Pressure:	3000PSI
Inlet Connection (Carbon Dioxide):	CGA320
Adjustable Outlet Pressure:	200PSI
Outlet Connection:	Air Quick Connect
Flow:	33CFM
Liquid Filled Gauge:	0-300PSI

5. Check the liquid filled gauge for the factory adjusted pressure. This is the static pressure in the hose assembly at this time. The HyperFlo MAX regulator can be adjusted from 0-200PSI. The outlet pressure can easily be adjusted by turning the black regulator knob in either direction.
6. Higher pressures are achieved by turning the regulator clockwise (right). You may use the SOURCE at the desired pressure. To lower the pressure, you must turn the adjustment knob counter clockwise (left) and release the trapped gas in the COMP-Flex hose assembly to lower the pressure and read an accurate adjustment on the liquid filled gauge.
7. When shutting the SOURCE system down, turn the SOURCE tank valve clockwise (right) until fully tight. Bleed remaining gas from the hose assembly. You may leave the Hyper-Flo regulator attached to your SOURCE tank, but be sure the valve is closed tightly between use to assure service free long life of the SOURCE system.

USAGE TIP

Its good practice to disconnect your COMP-Flex hose assembly between use and store safely. It is also recommended to disconnect regulator assembly during longer storage periods.

Nailing Specifications

MODEL	FASTENER	MATERIAL	5lb. Tank	10lb. Tank	15lb. Tank	20lb Tank
Bostich Framing Nailer F21PL	2" – 3 1/2" Collated Framing Nails	2X Stud/ 1/2" Ply	Apprx. 825 Nails Per Tank	Apprx. 1680 Nails Per Tank	Apprx. 2340 Nails Per Tank	Apprx. 3310 Nails Per Tank
Bostich Coil Roofing Nailer Roofing RN46	3/4" – 1 3/4" Collated Composite Nails	1/2" ACX/ CDX/ Roofing	Apprx. 1480 Nails Per Tank	Apprx. 2650 Nails Per Tank	Apprx. 3825 Nails Per Tank	Apprx. 5050 Nails Per Tank
Bostich Finish Nailer SB-1664FN	1 1/4" – 2 1/2" 16 gauge Finish Nails	3/8" – 1/2" Ash	Apprx. 1725 Nails Per Tank	Apprx. 3280 Nails Per Tank	Apprx. 4720 Nails Per Tank	Apprx. 6260 Nails Per Tank
Bostich Stapler 45052	1/2" – 2" 16 gauge Staples	Composite Roofing Corrugated	Apprx. 3420 Staples Per Tank	Apprx. 6310 Staples Per Tank	Apprx. 9315 Staples Per Tank	Apprx. 13700 Staples Per Tank

Air Up Performance Chart for Tires

Air Up Performance Chart for Tires – Air Up Times and Quantity of Tires

Tire Size	10 to 20PSI	Qty	10 to 25PSI	Qty	10 to 30PSI	Qty	10 to 35PSI	Qty
30x9.50x15	17 sec.	68	26 sec.	45	35 sec.	33	44 sec.	26
31x10.50x15	21 sec.	55	31 sec.	37	42 sec.	27	53 sec.	22
32x11.50x15	22 sec.	53	33 sec.	35	44 sec.	26	56 sec.	21
33x9.50x15	23 sec.	50	35 sec.	33	46 sec.	25	58 sec.	20
33x12.50x15	30 sec.	39	45 sec.	26	60 sec.	19	75 sec.	15
33x14.50x15	40 sec.	29	60 sec.	19	70 sec.	16	88 sec.	13
35x12.50x15	40 sec.	29	60 sec.	19	70 sec.	16	88 sec.	13
35x15.50x15	44 sec.	26	66 sec.	17	87 sec.	13	109 sec.	10