



50007 - Mission Critical High Flow OBA

USER MANUAL



IMPORTANT:

It is essential that you and any other operator of this product read and understand the contents of this Manual before installing and using this product.

SAVE THIS MANUAL FOR FUTURE REFERENCE

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IMPORTANT SAFETY INSTRUCTIONS

CAUTION - To reduce risk of electrical shock or electrocution:

- Do not disassemble. Do not attempt repairs or modifications. Refer to qualified service agencies for all required service and repairs.
- Do not use this product around an area where it can fall or be pulled into water or other liquids.
- Do not reach for this product if it has fallen into liquid.
- Use this compressor with 12-Volt DC systems only.
- This product should never be left unattended during use.

WARNING - To prevent injury:

- Never allow children to operate this compressor. Close supervision is necessary when this compressor is being used near children.
- This compressor will become very HOT during and immediately after use. Do not touch any part
 of this compressor with bare hands during and immediately after use.
- Do not use this product near flames or explosive materials or where aerosol products are being used.
- Do not operate this product where oxygen is being administered.
- Do not pump anything other than atmospheric air.
- Never use this product while sleepy or drowsy.
- Do not use any tools or attachments without first determining maximum air pressure for that tool or attachment.
- Never point any air nozzle or air sprayer toward another person or any part of the body.
- This air compressor is equipped with an Automatic Reset Thermal Protector, and can automatically restart after the thermal protector resets. Always cut off power source when thermal overload protector becomes activated.
- Wear safety glasses or goggles when operating this product.
- Use only in well ventilated areas.

INSTALLATION

Please read and follow the installation instructions carefully to avoid injury or damage to the compressor or your vehicle.

Each of our air compressors and parts have been carefully produced and packaged. Before you begin installation, please familiarize yourself with the Mission Critical High Flow OBA Kit Components List in this Manual.

Guidelines for Selecting Mounting Location:

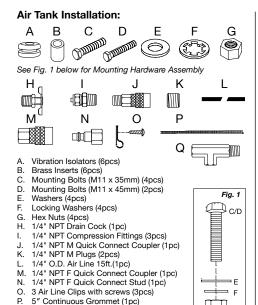
The selection of proper mounting location for your air compressor will help ensure a long and trouble free compressor service life. Please <u>pay close attention</u> to the following guidelines:

- 1. Select a FLAT, UPRIGHT, AND SECURE location where the compressor can be mounted.
- The cooler the ambient temperature, the less chance the compressor will overheat. If mounted in the engine compartment for prolonged use (tire filling), open your hood to allow maximum cooling of the compressor unit.
- 3. This compressor is moisture & dust resistant, but NOT DIRT OR WATERPROOF. Do not mount compressor in locations where the unit is likely to come in contact with the elements.
- 4. Always utilize the supplied remote filter mounting option, and route the air line from compressor air inlet to remote inlet air filter located in a clean and dry area. Secure the air filter to keep it from dislodging and becoming damaged.
- 5. If it is necessary to mount the air compressor further away from the battery, such as inside your vehicle or in the bed of your pickup, use the appropriate gauge wire for the-Amp draw of the compressor and distance from the battery. When in doubt, use the next larger wire gauge size.

Thank you for purchasing this complete, self-contained onboard air system. This package contains all the parts needed to install a high performance onboard air source in your vehicle. Please follow these instructions to install your new system.

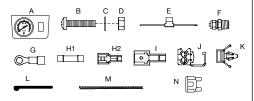
MISSION CRITICAL HIGH FLOW OBA Components:

PARTS PACKAGES



Gauge Panel Installation:

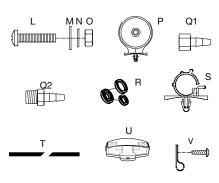
Q. 1/4"M x 1/4"F x 1/4"F, NPT, T-Fitting (1pc)



- A. Illuminated Dash Panel Gauge with On/Off Switch (1pc)
- B. Mounting Bolts (2pcs)
- C. Locking Washer (2pcs)
- D. Nuts (2pcs)
 - . 20ft. Extension Lead Wire with In line Fuse / Fuse Holder (1pc)
- F. 1/8" (F) NPT Compression Fitting for 1/4" O.D. Air Line (1pc) (Pre-Installed)
- G. Ring Terminals (3pcs)
- H1. Insulated Female Terminal Connectors (2pcs)
- H2. Insulated Female Terminal Connector (1pc)
- I. Insulated Male Terminal Connectors (2pcs)
- J. Quick Splice Connectors (2pcs)
- K. Cable Tie Brackets (3pcs)
- L. Cable Ties (6pcs)
- M. Continuous Grommet (1pc)
 N. Fuse (2pcs)*

 USER MANUAL

Compressor Installation:



- L. Mounting Bolts (8pcs)
- M. Flat Washers (16pcs)
- N. Locking Washers (8pcs)
- O. Nuts (8pcs)
- P. Remote Mount Air Filter Assemblies (2pcs)
- Q1. 1/4" NPT F x 3/8" Barbed Fitting (2pcs)
- Q2. 1/4" NPT M x 3/8" Barbed Fitting (2pcs)
- R. 2-pack of Replacemint Air Filter Elemints (2pcs)
- S. Leader Hose Bracket Clips (2pcs)
- T. 3/8" O.D. Air line 6ft.((2pcs, for remote mounting filter assembly)
- U. min. ANL Fuse Holder (1pcs)
- (2 min. ANL 80-Amp Fuses Included.)
- V. Air clips with Screws (6pcs)

Pressure Switch & Relays:



- 40-Amp Sealed 4-Prong Relay w/ Pre Wired Female Socket
- Y. Sealed Pressure Switch (110 On, 145 OFF) 1/4" M NPT Port

PARTS PACKAGES (CONT'D)

Coil Hose with Couplers:



AA. 30-ft. Coil Hose with close ended 1/4" Quick Connect Coupler & Stud

Air Tools / Carry Bag:



GG.Digital Tire Inflation Gun with 0-180 PSI Pressure Gauge with 1/4" NPT Quick Connect Stud (1pc)



HH. Rubber Tipped Blow Gun



II. 45° Dually Chuck (Extended Reach)



JJ. 90° Twist-On Chuck (Air Hose Length 40")



LL. VIAIR® Sterage Bag w/ Zipper



Tools:



MM. Stainless Steel Air Line Cutter

AIR TANK & PLUMBING

The tank comes with six 1/4" NPT port openings to allow installation in many configurations on your vehicle. To ensure safe and trouble free use of your air tank, we strongly recommend that you install the supplied drain cock and a safety pressure relief valve. (See Figure 1)

Plumbing Diagram: (Figure 1)

Safety Valve Compression Fitting T-Fitting Teader Hose From Compressor #1

**Wiring Harness NOT included

Leader Hose From Compressor #2

Drain Cock

Tank Fittings:

Quick Connect

Coil Hose

Install the supplied fittings for the air tank in areas where they are most appropriate for your installation using thread sealant. (Not all installations will be plumbed exactly as shown in schematic.) Make sure that the safety valve is installed in the top most position on the tank, and that the drain cock is installed in the lowest position on the tank if the tank is to be installed in any other position than upright on the tank's mounting legs. Be sure that all fittings are accessible later in the installation process since you will have to plumb air lines to each fitting as needed to utilize the air tank.

AIR TANK & PLUMBING (CONT'D)

MOUNTING THE TANK:

We have included 6 pieces of rubber bushings in your tank mounting hardware. You have the option of using two layers of rubber bushings on one of your tank legs to slightly tilt tank toward the drain cock port to improve drainage properties. Use the provided longer bolts, and corresponding washers, lock washers and nuts to mount the tank to a suitable chassis or other place on your vehicle.

IMPORTANT:

- Tank is rated for 150 PSI maximum working pressure.
- Tank is NOT to be used as a breathing device.
- Use only attachments or tools rated for 150 PSI working pressure or less.

CAUTION! DO NOT PRESSURIZE YOUR TANK UNTIL YOU HAVE INSTALLED ALL NECESSARY PORT FITTINGS AND ACCESSORIES.

- Apply sealant to threads of fittings prior to assembly and tighten each part with a wrench.
- Do not over tighten if your port fittings are made from brass, since brass threads can be stripped.
- Bleed pressure from tank before servicing or adding attachments.

WARNING: FAILURE TO DRAIN TANK AND REMOVE CONDENSATION WILL CAUSE TANK TO RUST PREMATURELY.

- To remove accumulated condensation inside the tank, bleed pressure from tank using the drain cock until pressure is approximately 5-20 PSI.
- Drain tank by opening the drain cock drain valve and close after draining tank.
- If drain cock valve is plugged, release all air pressure from tank, remove drain valve and clean, then reinstall.

IMPORTANT: Please observe air tank's Date of Manufacture (stamped on tank leg).

Replace air tank 2 to 5 years from date air tank was first used, or use the date of manufacture as reference. Adhering to air tank draining guidelines will prolong the life of your air tank.

PLEASE NOTE: RUSTED TANKS CAN FAIL CAUSING EXPLOSIONS OR FATAL INJURIES. Discard tank immediately if tank is rusted.

SAFETY VALVE: When using a safety pressure relief valve, point the safety pressure relief valve away from your body when releasing air. Use the pull ring on the safety relief valve to vent pressure from the tank before servicing.

DUAL AIR COMPRESSOR INSTALLATION

Please follow these installation instructions to enjoy the best use of your onboard air system.

CAUTION - To reduce risk of electrical shock or electrocution:

- Do not disassemble the compressor. Do not attempt repairs or modifications.
 Refer to qualified service agencies for all service and repairs.
- Do not use this product in an area where it can fall or be pulled into water or liquids.
- Do not reach for this product if it has fallen into liquid.
- Use this compressor with 12-Volt DC systems only.
- This product should never be left unattended during use.

DUAL AIR COMPRESSOR INSTALLATION (CONT'D)

Guidelines for Selecting Mounting Location:

The selection of proper mounting location for your air compressor will help ensure a long and trouble free compressor service life. Please pay close attention to the following:

- Select a FLAT, UPRIGHT, & SECURE LOCATION where the compressors can be mounted.
- To maximize air compressor performance, locate compressor as <u>CLOSE TO THE BATTERY</u> as possible so that length of positive lead wire required is at a minimum.
- Choose mounting location that is as cool as possible and away from heat sources.
- These compressors are moisture & dust resistant, but <u>NOT DIRT OR WATERPROOF.</u> Do not mount compressors in locations where the unit is likely to come in contact with water or excessive dirt.
- For compressors with remote filter mounting, select compressor's mounting location where air line can be routed from compressor air inlet to remote inlet air filter. Make sure that the remote inlet air filter is located in a dry location, away from water.
- You will also want to select a compressor mounting location where the leader hose bracket can be mounted to secure the leader hose.
- If it is necessary to mount the air compressors further from the battery, such as inside your vehicle or in the bed of your pickup, use a minimum 8 AWG positive lead wire for remote installation for each compressor.
- Do not mount compressors near areas where flammable liquids are stored.
- Use thread sealant for proper fitting installation. Thread tape is not recommended.
 Properly sealed, recommended torque for 1/4" and 3/8" is 12~15ft. lbs.

Compressor Wiring: (See Figure 3 on back of Manual)

- 1. Disconnect ground cable from vehicle's battery.
- 2. Temporarily position the air compressors in the location where it will be mounted.
- 3. Route ground wire to the negative post of the battery or to an appropriate grounding point and cut ground wire to length as needed.
- Mount the air compressors with the eight sets of 13/64" (5 mm) bolts, nuts, washers, and locking washers provided. Use of thread locker is recommended.
- 5. NOTE: For Remote Inlet Air Filter Installation, refer to Remote Inlet Air Filter Installation Instructions
 - included in the Remote Inlet Air Filter Pack.
- The air compressors come with a heavy duty heat resistant stainless steel braided leader hose with 1/4" NPT fittings.
- IMPORTANT: Please note; the leader hose that came with your compressors has a built-in in line check valve pre-installed. Do not remove in line check valve from leader hose.
- 8. Select a proper location to mount leader hoses with hose brackets provided. Avoid locations where leader hose may become tangled with wires and other hoses.
- 9. To mount hose bracket, drill holes with 3/16" drill bit and push self–anchoring hose bracket pin into hole. Route leader hose through hose bracket and secure hose by pressing bracket clamp into locked position.
- 10. To remove hose from the hose bracket, simply press down on the hose clamp release tab to release bracket clamp.
- 11. Follow wiring diagram on the back of Manual (Fig. 3)
- 12. Make sure that your compressor setup is properly fused. (Fuses included).
- 13. Always locate fuse as close as possible to power source.
- 14. Before connecting to power source, check to make sure that all connections are made properly.
- 15. Connect and test compressor system by running the compressors for a short time to build up pressure in your air tank.
- 16. Once air pressure reaches preset cut out pressure of your pressure switch, the compressors will shut off. Inspect all air line connections for leaks with soap and water solution. If a leak is detected, the air line may not be cut squarely or pushed all the way in. Tighten connections if needed.

OPERATING INSTRUCTIONS

IMPORTANT: The compressors have a maximum working pressure of 150 PSI. Always operate the compressor at or below the MAXIMUM PRESSURE RATING of the compressor. **Operation exceeding maximum pressure ratings and or duty cycle will result in damage to air compressor.**

- Your air compressors are equipped with an AUTOMATIC THERMAL OVERLOAD PROTECTOR.
 This feature will protect the air compressor from overheating and causing permanent damage to your air compressor. The thermal overload protector will automatically cut off power to your air compressor should the internal operating temperature of the air compressor rise above safe levels during excessive use.
- Should your air compressors automatically shut off during use, tern power to the system off. The
 automatic thermal overload protector will automatically reset when internal temperature of the
 air compressor drops below safe levels. After allowing air compressor to cool off, you can safely
 resume use of the air compressor by turning on the system.
- 3. To prevent discharge of your battery and to provide peak performance, it is recommended that you keep the engine running while the air compressor is in use.
- 4. ONLY OPERATE THE AIR COMPRESSORS IN WELL-VENTILATED AREAS.

Dual Compressor Maintenance & Repairs:

- 1. Periodically check all electrical and fitting connections. Clean and tighten as needed.
- 2. Periodically check all mounting screws. Tighten as needed.
- 3. Replace air filter element periodically. Replacement frequency depends on operating frequency and operating environment. For frequent use in dusty environment, you should replace air filter element more often.
- 4. Regularly clean dust and dirt from compressor.
- Your air compressor is equipped with permanently lubricated, maintenance free motor. Never lubricate compressor.
- 6. Repairs should be performed by Manufacturer or Manufacturer's Authorized Service Agencies only.

CAUTION: Never touch the air compressor or fittings connected to the air compressor with bare hands during or immediately after use. Leader hose and fittings will become very HOT during and after use.

Dual Compressor Installation Tips:

- Always use the remote intake filter option when possible. This will extend the service life of your compressor.
- 2. If noise reduction from vibration is desired, using the remote mount option for the inlet filter can reduce operation noise by up to 25%.
- 3. Always mount the compressor at a point higher than the inlet port of the tank. This will keep moisture from being able to seep back to the compressor.
- 4. When mounting the compressor, use a paint pen on the rubber isolators and cover the side to go against the chassis or mounting location. Then, simply stamp the compressor against the chassis to make an imprint of exactly where to drill the mounting holes for the compressor.

PRESSURE SWITCH INSTALLATION

Your VIAIR® Mission Critical High Flow Onboard Air System comes complete with a heavy duty sealed pressure switch that will tern on the compressor at 110 PSI, and off at 145 PSI. The pressure switch has a 1/4" NPT inlet and pre-applied thread sealant.

Pressure Switch and Relay Installation Tips:

- Both terminals of the pressure switch are positive (+) leads. (The use of a relay is always recommended).
- Never use a pressure switch that is rated beyond your compressor's rated Maximum Working Pressure.
- 3. Replace the Pressure Switch with *P/N 90227*. if the pressure switch becomes faulty or fails in the future.
- 4. See Fig. 3 for relay and pressure switch installation tips.

DASH PANEL GAUGE INSTALLATION

Your VIAIR® Mission Critical High Flow Onboard Air System comes complete with a Dash Panel Gauge to monitor the pressure of your VIAIR® air tank. Additionally, the Dash Panel Gauge has an ON/OFF switch pre installed that will allow you to tern the system off by cutting power to the pressure switch that you have already installed. We recommend that you install a master ON/OFF switch to allow the system to be turned off any time you anticipate leaving the vehicle parked for any length of time, and to avoid draining the vehicle's battery unnecessarily due to a slow air leak in your system. (See Figure 3 on back of Manual)

IMPORTANT: Each Dash Panel Gauge has been tested and calibrated. The air inlet on this gauge has a factory installed compression fitting. DO NOT attempt to tighten or loosen the body of this compression fitting. Any adjustments will cause the gauge to malfunction and void warranty. The Dash Panel Gauge included in this kit is rated for 150 PSI (*P/N 20062*). Always operate the gauge at or below the MAXIMUM PRESSURE RATING of the gauge.

1. Select Mounting Location for Dash Panel Gauge:

Select a mounting location with a rigid mounting surface such as the bottom edge of the dashboard. Use the gauge mounting panel as a template; mark off two mounting points to be drilled. Carefully drill two 13/64" diameter holes as marked. Do not mount Dash Panel Gauge at this time.

2. Air Line Connection to Dash Panel Gauge:

Remove only the collar of the compression fitting from the back of the Dash Panel Gauge. Do not loosen or tighten the body of the compression fitting, which is permanently affixed to the air inlet of the gauge. Insert air line tubing through this collar, and then push air line tubing onto the barb of the compression fitting until the air line completely covers the barb. Tighten collar onto the body of the compression fitting with a wrench.

3. Routing Air Line to Tank:

Route the air line tubing on the Dash Panel Gauge to the tank. Do not cut air line yet, in some cases a hole may need to be drilled to enable the air line to pass through panels to the tank location. Make sure that the air line tubing is protected from any sharp edges of the drilled hole using grommet strip supplied. Connect to the tank using the 1/4" compression fitting supplied.

Installation Tips:

- When cutting air line tubing, always cut as squarely as possible. Use a hose cutter or razor blade.
- When routing air line tubing, always remember to avoid sharp edges, heat sources and tight bends.
 (Air line must be routed at least 12 inches from exhaust systems & other heat sources.)

IMPORTANT - Drilling through firewall:

Always be sure of what is on the other side of the firewall before drilling. Take care not to damage your vehicle's electronic systems or components.

4. Wiring the ON/OFF Switch:

Attach one of the two remaining female terminal connecters to the wire that was routed from the pressure switch. There are two male spade connecters on the back of the ON/OFF switch. Connect this female terminal connecter to one of the male spade connecter on the ON/OFF switch. Next, attach appropriate size ring terminal provided in the kit to the end of the wire with the In line Fuse. (The ring terminal should be about 12" from the in line fuse.) This wire is referred to as the power wire. Temporarily position the ring terminal at the power source and route power wire to the dash panel gauge, measure and cut to appropriate length. (If additional wire is necessary, use 16 AWG wire.) Attach the remaining female terminal connecter to end of power wire, and connect to male spade connecter on the ON/OFF switch. (Note: Do not connect gauge to power source at this time.)

5. Wiring the Dash Panel Gauge for Illumination:

There are two wires, one red and one black connected to the light bulb of the gauge. Connect the red wire to a suitable fused dash panel circuit. Use the quick splice connecter included in the kit for wire connections. The black wire is to be connected to a suitable ground source.

DASH PANEL GAUGE INSTALLATION (CONT'D)

6. Mounting the Dash Panel Gauge:

With all electrical and air line tubing routed and connected properly, mount the dash panel gauge using the two 13/64" nuts, bolts, and washers included with the Dash Panel Gauge. Make sure that no electrical wires or air line can be contacted by vehicle pedal operation, or by use of any safety equipment. Use provided zip ties to secure air line and electrical wiring.

7. Connect to Power Source:

Before connecting the power wire to a power source, check to make sure that the ON/OFF switch on the dash panel gauge is in the OFF position. Connect the ring terminal of the power wire to power source. (This is the wire described in Step 4, which is connected to the ON/OFF switch of the dash panel gauge.)

8. Testing Your Onboard Air System:

Your Onboard Air System installation is now complete. Run the compressors to build pressure in the air tank. When air pressure reaches the pressure switch cut out pressure, the compressors will shut off. Inspect all air line connections for leaks with soap and water solution and spray with a spray bottle onto connections to check for leaks. If leaks are detected, air line may not be cut squarely or pushed all the way in. Fix connections as needed. Periodically check your system's fitting in this manner should your compressors tern on more often than normal without frequent air use.

TIRE INFLATION GUN OPERATING INSTRUCTIONS

Your Onboard Air System also comes with a Tire Inflation Gun for airing up teres and adding compressed air to any inflatable items with a valve stem.

1. Using the Tire Inflation Gun:

Connect the Digital Tire Inflation gun to the 30' coil hose provided with the kit and connect the coil hose to the tank. Attach the 45° or 90° twist on chuck to the quick connect coupler on the end of the Digital Tire Inflation Gun. Attach the other end of the 45° or 90° chuck to the valve stem on your teres.

2. Filling Tires and other Inflatable Items:

Squeeze the Inflation Trigger on the Inflation Gun by pressing it towards the handle of the gun. This will allow stored air from the air tank to flow through the gun and through the chuck into your tire or other inflatable items.

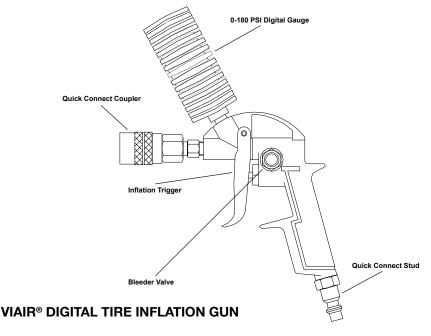
3. Checking Tire Pressure:

To check tire pressure, release Inflation Trigger on Inflation Gun and allow the needle of the 0-180 PSI gauge to settle. Tire pressure will be able to be read only when the inflation trigger is released.

WARNING:

- Never operate the Inflation Gun at any pressure exceeding 180 PSI.
- Use caution when attaching or removing air chuck from valve stems.
- Always ensure that tire valve stems are tight before inflating teres.
- Be careful to never inflate any tire or other inflatable items past its rated pressure to avoid explosion, possible injury, or death.

Please Note: Not intended for use with regular portable compressors or units meant to be operated with an open ended air chuck. The Tire Inflation Gun is equipped with a closed ended chuck and will hold pressure back, which could cause the hose to burst.



USER MANUAL

TROUBLESHOOTING GUIDE:

PROBLEM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Tank pressure drops when compressor(s) shut off	Loose drain cock Check valve leaking Loose connections	Tighten drain cock Replace check valve or compressor(s) Check all connections with soap and water solution and tighten
Compressor runs continuously and air flow lower than normal	Excessive air usage Loose connections Worn piston ring or inlet valve. Clogged air filter element	Decrease air usage Check all connections with soap and water solution and tighten. Repair or replace compressor Replace air filter element
Compressor runs continuously causing safety valve (if equipped) to open	Bad pressure switch Defective safety valve	Replace pressure switch Replace safety valve
Excessive moisture in discharge	Excessive water in air tank High humidity	Drain tank, tilt tank to drain. Drain tank more frequently Move compressor to area with less humidity, or use air line filter.
Compressor will not run	1. No power, or power switch in OFF position 2. Blown fuse 3. Motor overheats 4. Faulty pressure switch.	Make sure compressor switch is ON Disconnect compressors from power source, replace fuse. (Refer to Specifications section for correct fuse-Amperage.) Let compressors cool off for about 30 minutes to allow thermal overload switch reset. Replace pressure switch
Thermal overload protector cuts out repeatedly	Lack of proper ventilation or ambient temperature too high Compressor valves failed	Move compressor to well ventilated area, or area with lower ambient temperature Repair or replace compressor
Excessive knocking or rattling	Loose mounting bolts Worn bearing on eccentric or motor shaft Cylinder or piston ring is worn	Tighten mounting bolts Repair or replace compressor Repair or replace compressor

CAUTION: NEVER DISASSEMBLE COMPRESSOR WHILE COMPRESSOR IS PRESSURIZED.

COMPRESSOR APPLICATION GUIDE

To ensure that you get the highest level of satisfaction from your compressor performance, refer to information below:

VIAIR® COMPRESSOR REFERENCE CHART				
COMPRESSOR SERIES	MAX. WORKING	DUTY CYCLE		
	PRESSURE	(100 PSI @ 72°F)		
090 SERIES	120 PSI	9%		
092 SERIES	120 PSI	9%		
095 SERIES	120 PSI	9%		
097 SERIES	130 PSI	10%		
098 SERIES	130 PSI	10%		
100 SERIES	130 PSI	15%		
250 IG SERIES	150 PSI	100%		
275 SERIES	150 PSI	25%		
280 SERIES	150 PSI	30%		
325 SERIES	150 PSI	33%		
330 IG SERIES	150 PSI	100%		
350 SERIES	150 PSI	100%		
380 SERIES	200 PSI	100%		
		55% @ 200 PSI		
400 SERIES	150 PSI	33%		
420 SERIES	150 PSI	33%		
425 SERIES	175 PSI	33% @ 175 PSI		
		50%		
444 SERIES	200 PSI	100%		
		50% @ 200 PSI		
450 SERIES	150 PSI	100%		
450 IG SERIES	150 PSI	100%		
460 SERIES	150 PSI	100%		
480 SERIES	200 PSI	100%		
		50% @ 200 PSI		
485 SERIES	200 PSI	100%		
		100% @ 200 PSI		

ABOUT COMPRESSOR DUTY CYCLE:

Duty cycle refers to the amount of time a compressor can be operated in a given time period at 100 PSI, and a standard ambient temperature of 72° F. It is commonly expressed in percentage format: Compressor on time ÷ (on time + off time) = Duty Cycle %.

ONE-HOUR DUTY CYCLE (100 PSI @ 72°F) 9%	MINUTES ON / MINUTES OFF 5 min. On / 55 min. Off
10%	6 min. On / 54 min. Off
15%	9 min. On / 51 min. Off
20%	12 min. On / 48 min. Off
25%	15 min. On / 45 min. Off
30%	18 min. On / 42 min. Off
33%	20 min. On / 40 min. Off
50%	30 min. On / 30 min. Off
100% 1 Hour Run Time	

ABOUT RATED WORKING PRESSURE:

To ensure trouble free service life of your compressor, always operate compressor within rated working pressure of the compressor. Never use a pressure switch with a higher cut-off pressure than compressor's rated working pressure.

SPECIFICATIONS

• Part No. 50007 / Mission Critical High Flow OBA System

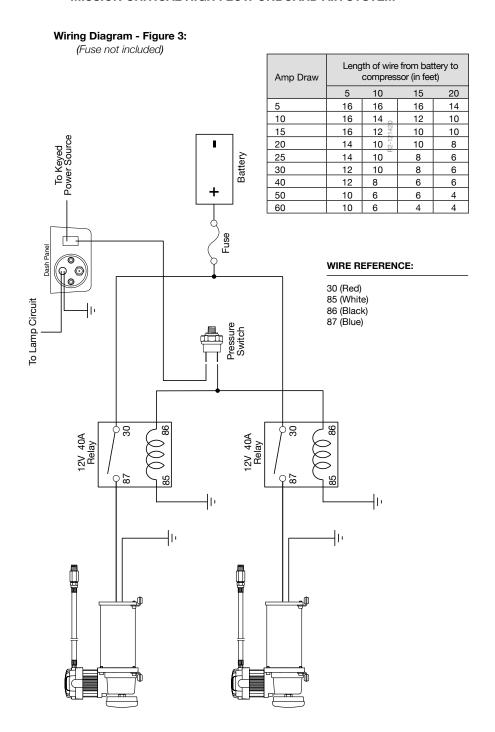
Motor Voltage: 12-Volts
Combined Max. Current Consumption: 60-Amps

Motor Type: Permanent Magnetic

Horsepower: 1/4
Max. Working Pressure: 150 PSI
Max. Duty Cycle (@ 72°F & 100 PSI): 33%

Minutes On/Off (@ 72°F & 100 PSI): 20 min ON / 40 min. OFF

Max. Restart Pressure:150 PSIMax. Ambient Temperature:158°FMin. Ambient Temperature:-40°FAuto. Reset Thermal Protection:YesIngress Protection Rating:IP67



LIMITED WARRANTY:

VIAIR® Corporation warrants this product, when properly installed and under normal conditions of use, to be free from defects in workmanship and materials for a period of one year from its original date of purchase. To receive warranty service or repair, please contact VIAIR® Corporation.

Returns should be made within one year of the date of purchase, after a Return Goods Authorization (RGA) number has been assigned by VIAIR® Corporation. To obtain RGA, fax a copy of your receipt to (949) 585-0188. For complete warranty details, please visit: www.VIAIRcorp.com/warranty

PLEASE NOTE:

THIS WARRANTY COVERS PRODUCT DEFECTS ONLY; IT DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES AS RESULT OF MISUSE OR ABUSE.

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