OPERATOR'SMANUAL

BLASTMASTER® 400 CFM CART MOUNTED AFTERCOOLER







Before using this equipment, read, understand and follow all instructions in the Operator's Manuals provided with this equipment. If the user and/ or assistants cannot read or understand the warnings and instructions,

the employer of the user and/or assistants must provide adequate and necessary training to ensure proper operation and compliance with all safety procedures pertaining to this equipment. If Operator's Manuals have been lost, please visit www.marco.us, or contact Marco at 563.324.2519 for replacements. Failure to comply with the above warning could result in death or serious injury.



Company Profile

Since 1944, Marco has developed a strong tradition of providing innovative and reliable products and services to the surface preparation and protective coatings industries. We are the world's premier provider of Abrasives, Blasting, Coating, Dust Collectors, Engineered Systems, Rental, Safety, Service, Repair, & Modernization, and Vacuums.

Through innovative designs and a total commitment to quality, Marco manufactures products that increase production rates, create a safer workplace, and reduce maintenance costs. Marco's industry experience, manufacturing capabilities, legendary customer service, product availability, logistics services, and technology leadership is your assurance that we deliver high quality products and services, providing the best value to you, our customer.

The Marco Difference

- Industry Experience With Marco on your team, you have access to expertise which can only come from decades of industry leadership. We have organized our engineering department, production specialists, customer operations, and safety support into a "Center of Competence." As a Marco customer, you have access to hundreds of years of cumulative experience related to your operations.
- Manufacturing Excellence Marco is a U.S. based, ISO 9001:2008 certified manufacturer of equipment for the Surface Preparation and Protective Coatings industries. Marco's engineers benchmark the industry to ensure that we design and manufacture superior products that set the "Gold Standard" for performance, safety, and quality.
- Legendary Customer Service Marco's legendary customer service team is staffed by friendly, highly-trained individuals who are focused on providing the highest level of product support, order accuracy, and customer satisfaction.
- Product Availability We stock over 10,000 SKU's and have more than 45 shipping locations to serve North American and International markets for all major brands of blasting and coating equipment. As the largest provider of surface preparation and protective coatings equipment in the world, our inventory levels and product availability are unmatched.
- Logistics Services Marco's in-house logistics team is dedicated to moving your shipment anywhere in the world. We move more than 14,000 truckloads every year, allowing you to save on freight costs by leveraging our buying power. Lower your process costs with a single invoice, which includes product and freight.
- Technology Leadership Our website provides: Operator's Manuals, Part Numbers and Schematics Guides, SDS information, and Features & Specifications Guides, providing access to information 24/7. Our Extranet application allows you to receive quotes and place orders online. Our Intranet maintains a complete record of your purchase history to assist with ongoing support of your existing equipment and future purchasing decisions.

Vision Statement

Marco is the world's premier provider of Abrasives, Blasting, Coating, Dust Collectors, Engineered Systems, Rental, Safety, Service, Repair, & Modernization, and Vacuums.

Mission Statement

Marco provides strong leadership and innovation to the surface preparation and protective coatings industries. We dedicate our efforts to the continuous improvement of our products, services, processes, people, and most importantly, the quality of our customer's experience.

Quality Statement

Marco is committed to providing superior quality in the design, manufacturing, distribution, rental, service, and repair of our products. Our ISO 9001:2008 certification extends throughout all operations in all locations. Continuous improvement of our processes and supply chain Integration comprise the core of our business strategy for delivering exceptional quality and value in all Marco products and services.

Management Philosophy

We are a company dedicated to the success of every customer and associate. We discuss, debate, challenge, measure, and test our ideas. We will be boundless and limitless in our passion to improve. Through sound leadership and dedicated associates, we will ensure a long term, profitable future for Marco, our associates, customers, and suppliers.

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DEFINITION OF TERMS

A DANGER

This is an example of danger. This indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

A CAUTION

This is an example of a caution. This indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It can also be used to alert against unsafe practices.

A WARNING

This is an example of a warning. This indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

This is an example of a notice. This indicates policy or practice directly related to safety of personnel or protection of property.

HAZARD IDENTIFICATIONS

A WARNING

Failure to comply with ANY WARNING listed below could result in death or serious injury.

- OSHA sets exposure limits to protect workers from exposure to respirable crystalline silica, 29 CFR 1910.1053. Airborne dust could increase the exposure levels beyond permissible limits. Breathing dust containing silica could cause silicosis, a fatal lung disease. Breathing dust during abrasive blasting operations, post-blast cleaning operations, and/or servicing equipment within the abrasive blasting area may expose an individual to conditions that could cause asbestosis, lead poisoning and/or other serious or fatal diseases. Harmful dust containing toxic material from abrasives or surfaces being abrasive blasted can remain suspended in the air for long periods of time after abrasive blasting has ceased. A NIOSH-approved, well-maintained, respirator designed for the specific operation being performed must be used by anyone abrasive blasting, handling or using the abrasive, and anyone in the area of the dust.
- Contact NIOSH and OSHA offices to determine the proper respirator for your specific application. The air supplied to the respirator must be at least Grade D quality as described in Compressed Gas Association Commodity Specification G-7.1 and as specified by OSHA Regulation 1910.134. Ensure air filter and respirator system hoses are not connected to non-air sources or in-plant lines that may contain nitrogen, oxygen, acetylene or other non-breathable gases. Before removing respirator, use an air monitoring instrument to determine if the atmosphere is safe to breathe.
- You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area.
- Abrasive blasting operators must receive thorough training on the use of abrasive resistant attire which includes: supplied-air respirator, abrasive blasting suit, safety shoes, gloves, ear protection and eye protection. Protect the operator and bystanders by complying with NIOSH and OSHA Safety Standards.
- Inspect all equipment for wear or damage before and after each use. Failure to use Original Equipment Manufacturer repair parts and failure to immediately replace worn or damaged components could void warranties and cause malfunctions.
- OSHA requires abrasive blasting nozzles be equipped with an operating valve, which shall be designed to be held open only by continuous hand pressure and shall close immediately upon release of hand pressure (i.e., a "deadman" control). The valve shall not be modified in any manner that would allow it to remain open without the application of continuous hand pressure by the operator. Failure to comply with the above warning could result in release of high speed abrasive and compressed air resulting in death or serious injury. OSHA 29CFR 1910.244(b)
- Point the abrasive blasting nozzle only at the surface being abrasive blasted. Never point the abrasive blasting nozzle or abrasive stream at yourself or others.
- Unless otherwise specified, maximum working pressure of abrasive blasting pots and related components must not exceed 150 psi. Exceeding maximum working pressure of 150 psi could cause the abrasive blasting pot and components to burst. Failure to comply with the above warning could result in death or serious injury.
- Never weld, grind or drill on the abrasive blasting pot (or any pressure vessel). Doing so will void ASME certification and manufacturer's warranty. Welding, grinding or drilling on the abrasive blasting pot (or any pressure vessel) could weaken the vessel causing it to burst. Failure to comply with the above warning could result in death or serious injury. (ASME Pressure Vessel Code, Section VIII, Division 1)
- This equipment is not intended for use in any area that might be considered a hazardous location, as described in the National Electric Code NFPA 70, Article 500. Use of this equipment in a hazardous location could cause an explosion or electrocution.
- Never attempt to move an abrasive blasting pot containing abrasive. Never attempt to manually move abrasive blasting pots greater than 6.5 cubic foot capacity. Always use at least two capable people to manually move an abrasive blasting pot on flat, smooth surfaces. A mechanical lifting device must be used if an abrasive blasting pot is moved in any other manner.

HAZARD IDENTIFICATIONS

A WARNING

Failure to comply with ANY WARNING listed below could result in death or serious injury.

- This product is not for use in wet environments. Always use a Ground Fault Interrupter Circuit (GFIC) for all electrical power source connections. Use of this product in wet environments could create a shock or electrocution hazard.
- Frozen moisture could cause restrictions and obstructions in pneumatic control lines. Any restriction or obstruction in the pneumatic control lines could prevent the proper activation and deactivation of the remote control system, resulting in the release of high speed abrasive and compressed air. In conditions where moisture may freeze in the control lines an antifreeze injection system approved for this application can be installed.
- Do not cut, obstruct, restrict or pinch pneumatic control lines. Doing so could prevent the proper activation and deactivation of the remote control system, resulting in the release of high speed abrasive and compressed air.
- Use of Marco remote control switches with other manufacturer's remote control systems could cause unintended activation of remote control systems resulting in the release of high speed abrasive and compressed air. Only Marco remote control switches should be used with Marco remote control systems.
- Always be certain to have secure footing when abrasive blasting. There is a recoil hazard when abrasive blasting starts that may cause user to fall and misdirect the abrasive stream at operator or bystander.
- Never use an abrasive blasting pot or attachments as a climbing device. The person could slip and fall. The abrasive blasting pot could become unstable and tip over.
- For equipment manufactured by entities other than Marco, you must consult the Original Equipment Manufacturer operator's manuals, information, training, instructions and warnings, for the proper and intended use of all equipment.
- Flammable fumes, such as solvent and paint fumes in the work area can present an ignition or explosion hazard if allowed to collect in adequate concentrations. To reduce conditions that could result in a fire or an explosion, provide adequate ventilation, eliminate all ignition or spark sources, keep the work area free of debris, store solvents and solvent contaminated rags in approved containers, follow proper grounding procedures, do not plug/unplug power cord or turn on/off power switches when flammable fumes are present, keep a working fire extinguisher or provide another fire suppression system in the work area. Cease all operations and correct condition if a spark or ignition source is identified during operation.
- Always depressurize the entire system, disconnect all power sources and lockout/tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.
- Moving parts can present an area where crushing, pinching, entanglement or amputation may occur. Do not place body parts or foreign objects in any area where there are moving parts.
- Surfaces of heated supply tanks, drums and/or lines as well as the adjoining plumbing may become hot during normal use. Do not touch these heated surfaces without proper protection. Deactivate and allow sufficient time for all surfaces to cool before attempting any maintenance.
- High-pressure fluid from gun, hose leaks, or ruptured components can pierce skin and can cause a serious injury that may result in amputation. Do not point gun or spray tip at anyone or at any part of the body. Keep clear of any leaks or ruptures. Depressurize the entire system before attempting cleaning, inspecting, or servicing equipment.
- Exposure to toxic fluids or fumes may occur during the normal operation of this system. Before attempting to fill, use, or service this system, read SDS's to know the specific hazards of the fluids you are using. Always use proper Personal Protective Equipment when attempting to fill, use, or service this system.
- The use of this product for any purpose other than originally intended or altered from its original design is prohibited.
- Never hang objects from the abrasive blasting pot handle. Doing so may cause the abrasive blasting pot to become unstable and tip over.

HAZARD IDENTIFICATIONS

Failure to comply with ANY CAUTION listed below may result in minor or moderate injury.

- Static electricity can be generated by abrasive moving through the abrasive blasting hose causing a shock hazard. Prior to use, ground the abrasive blasting pot and abrasive blasting nozzle to dissipate static electricity.
- ► High decibel noise levels are generated during the abrasive blasting process which may cause loss of hearing. Ensure appropriate Personal Protective Equipment and hearing protection is in use.

NOTICE

Failure to comply with ANY NOTICE listed below could pose a hazard to personnel or property.

- See Air & Abrasive Consumption Chart for estimated abrasive consumption rates and required air flow (cubic feet per minute). Your system must meet these minimum requirements to ensure proper function and performance.
- Always use abrasive that is dry and properly screened. This will reduce the potential for obstructions to enter the remote control system, abrasive metering valve and abrasive blasting nozzle.
- Moisture build-up occurs when air is compressed. Any moisture within the abrasive blasting system will cause abrasive to clump, clogging metering valves, hoses and nozzles. Install an appropriately sized moisture separator at the inlet of the abrasive blasting system. Leave the moisture separator petcock slightly open to allow for constant release of water. If insufficient volume of air exists and petcock is unable to be left open (at all times) petcock should be opened frequently to release water.
- To reduce abrasive intrusion in the air supply hose, depressurize the abrasive blasting pot before shutting off air supply from compressor.
- Inspect abrasive blasting nozzle before placing into service. Damage to abrasive blasting nozzle liner or jacket may occur during shipping. If you receive a damaged abrasive blasting nozzle, contact your distributor immediately for replacement. Abrasive blasting nozzles placed into service may not be returned. Abrasive blasting nozzle liners are made of fragile materials and can be damaged by rough handling and striking against hard surfaces. Never use a damaged abrasive blasting nozzle.
- Abrasive blasting at optimal pressure for the abrasive used is critical to productivity. Example: For an abrasive with an optimal abrasive blasting pressure of 100 psi at the abrasive blasting nozzle, one pound per square inch of pressure loss will reduce abrasive blasting efficiency by 1.5%. A 10 psi reduction in air pressure will cause a 15% loss of efficiency. Use a Needle Pressure Gauge to identify pressure drops in your system. Consult with your abrasive supplier for the requirements of your abrasive.
- Replace abrasive blasting nozzle if liner or jacket is cracked or damaged. Replace abrasive blasting nozzle if original orifice size has worn 1/16" or more. Determine abrasive blasting nozzle wear by inserting a drill bit 1/16" larger than original size of abrasive blasting nozzle orifice. If the drill bit passes through abrasive blasting nozzle, replacement is needed.

AIR & ABRASIVE CONSUMPTION CHART

NOTICE

Failure to comply with ANY NOTICE listed below could pose a hazard to personnel or property.

- See Air & Abrasive Consumption Chart for estimated abrasive consumption rates and required air flow (cubic feet per minute). Your system must meet these minimum requirements to ensure proper function and performance.
- When it comes to air & abrasive mixtures, more is not necessarily better. Optimum abrasive blasting efficiency takes place when a lean air & abrasive mixture is used. To correctly set the abrasive metering valve, begin with the valve fully closed and slowly increase the amount of abrasive entering the airstream. As you increase the abrasive flow, watch for a "blue flame" at the exit of the abrasive blasting nozzle. Faster cutting, reduced abrasive consumption and lower clean up costs, are benefits of the "blue flame".
- Abrasive blasting at optimal pressure for the abrasive used is critical to productivity. Example: For an abrasive with an optimal abrasive blasting pressure of 100 psi at the abrasive blasting nozzle, one pound per square inch of pressure loss will reduce abrasive blasting efficiency by 1.5%. A 10 psi reduction in air pressure will cause a 15% loss of efficiency. Use a Needle Pressure Gauge to identify pressure drops in your system. Consult with your abrasive supplier for the requirements of your abrasive.

NOTICE

Inspect abrasive blasting nozzle before placing into service. Damage to abrasive blasting nozzle liner or jacket may occur during shipping. If you receive a damaged abrasive blasting nozzle, contact your distributor immediately for replacement. Abrasive blasting nozzles placed into service may not be returned. Abrasive blasting nozzle liners are made of fragile materials and can be damaged by rough handling and striking against hard surfaces. Never use a damaged abrasive blasting nozzle.

NOTICE

Replace abrasive blasting nozzle if liner or jacket is cracked or damaged. Replace abrasive blasting nozzle if original orifice size has worn 1/16" or more. **Determine abrasive** blasting nozzle wear by inserting a drill bit 1/16" larger than original size of abrasive blasting nozzle orifice. If the drill bit passes through abrasive blasting nozzle, replacement is needed.

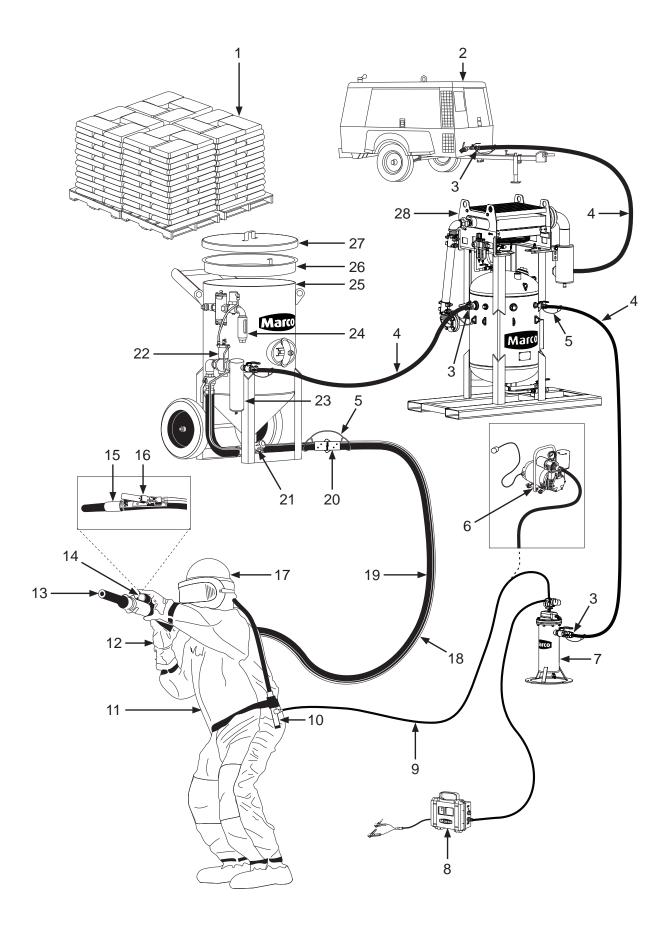
"Blue Flame"	

Air & Abrasive Consumption Chart*

Nozzle	Pressure at the Nozzle (PSI)					Air (in cfm), Abrasive			
Orifice	50	60	70	80	90	100	125	140	& Compressor Requirements
No. 2 (1/8")	11	13	15	17	18	20	25	28	Air (cfm)
	67	77	88	101	112	123	152	170	Abrasive (lbs/hr)
	2.5	3	3.5	4	4.5	5	5.5	6.2	Compressor Horsepower
No. 3 (3/16")	26	30	33	38	41	45	55	62	Air (cfm)
	150	171	196	216	238	264	319	357	Abrasive (lbs/hr)
	6	7	8	9	10	10	12	13	Compressor Horsepower
No. 4 (1/4")	47	54	61	68	74	81	98	110	Air (cfm)
	268	312	354	408	448	494	608	681	Abrasive (lbs/hr)
	11	12	14	16	17	18	22	25	Compressor Horsepower
No. 5 (5/16")	77	89	101	113	126	137	168	188	Air (cfm)
	468	534	604	672	740	812	982	1100	Abrasive (lbs/hr)
	18	20	23	26	28	31	37	41	Compressor Horsepower
No. 6 (3/8")	108 668 24	126 764 28	143 864 32	161 960 36	173 1052 39	196 1152 44	237 1393 52	265 1560 58	Air (cfm) Abrasive (lbs/hr) Compressor Horsepower
No. 7 (7/16")	147	170	194	217	240	254	314	352	Air (cfm)
	896	1032	1176	1312	1448	1584	1931	2163	Abrasive (lbs/hr)
	33	38	44	49	54	57	69	77	Compressor Horsepower
No. 8 (1/2")	195	224	252	280	309	338	409	458	Air (cfm)
	1160	1336	1512	1680	1856	2024	2459	2754	Abrasive (lbs/hr)
	44	50	56	63	69	75	90	101	Compressor Horsepower
No. 10 (5/8")	308	356	404	452	504	548	663	742	Air (cfm)
	1875	2140	2422	2690	2973	3250	3932	4405	Abrasive (lbs/hr)
	68.5	79.5	90	100.5	112	122	146	165	Compressor Horsepower
No. 12 (3/4")	432	504	572	644	692	784	948	1062	Air (cfm)
	2672	3056	3456	3840	4208	4608	5570	6238	Abrasive (lbs/hr)
	96	112	127	143	154	174.5	209	236	Compressor Horsepower

*Abrasive consumption is based on abrasive with a bulk density of 100 lbs per Cubic Foot

"THE BIG PICTURE"



DAILY PRE-OPERATION CHECKLIST

Daily Pre-operation Checklist

- □ 1. Abrasive
- □ 2. Air Compressor
- □ 3. Air Hose Couplings & Gaskets
- □ 4. Air Hose
- □ 5. Safety Cable
- □ 6. Ambient Air Pump*
- □ 7. Breathing Air Filter
- □ 8. CO Monitor
- □ 9. Breathing Line
- □ 10. Climate Control Device
- □ 11. Abrasive Blasting Suit
- □ 12. Gloves
- □ 13. Abrasive Blasting Nozzle
- □ 14. Lighting System*
- □ 15. Abrasive Blasting Nozzle Holder
- □ 16. Remote Control Switch
- □ 17. Supplied-Air Respirator
- □ 18. Control Line
- □ 19. Abrasive Blasting Hose
- □ 20. Abrasive Blasting Hose Couplings & Gaskets
- □ 21. Abrasive Metering Valve
- □ 22. Remote Control System
- 23. Moisture Separator
- □ 24. Abrasive Blasting Pot Exhaust Muffler
- □ 25. Abrasive Blasting Pot
- □ 26. Abrasive Blasting Pot Screen
- □ 27. Abrasive Blasting Pot Lid
- 28. Aftercooler*
- * Optional or alternative device. Ask your Marco Representative for more details.

Abrasive – Select the correct Abrasive (1) for the application. Review the SDS (*Safety Data Sheet*) to ensure the correct PPE (*Personal Protective Equipment*) and Environmental Controls have been selected and are in place.

Air Compressor – Select an Air Compressor (2) of adequate size to support all equipment requirements. Refer to "Air & Abrasive Consumption Chart" for Abrasive Blasting Nozzle (13) air consumption requirements. Before connecting Air Hose (4), sample the air being produced by the air compressor (2) to ensure it is free of petroleum contaminants.

Air Hose, and Air Hose Couplings & Gaskets – Select Air Hoses (4) of sufficient size to support all subsequent volumetric requirements and with a sufficient PSI *(pound per square inch)* rating. Inspect all Air Hoses (4), and Air Hose Couplings & Gaskets (3) for damage or wear. Repair or replace damaged or worn components.

Abrasive Blasting Hose, Abrasive Blasting Hose Couplings & Gaskets, and Abrasive Blasting Nozzle Holder – Select an Abrasive Blasting Hose (19) that has an inner diameter 3 to 4 times larger than your Abrasive Blasting Nozzle (13). Inspect Abrasive Blasting Hose (19), Abrasive Blasting Hose Couplings & Gaskets (20), and Abrasive Blasting Nozzle Holder (15) for damage or wear. Repair or replace damaged or worn components.

Safety Cables – Install a Safety Cable (5) at each Abrasive Blasting Hose (19), and Air Hose (4) connection points.

Aftercooler and Moisture Separator – Ensure Aftercooler (28) is positioned on stable ground. Keep petcock drain of Moisture Separator (23) slightly open during use. Drain both devices after each use.

Supplied-Air Respirator, Breathing Line, Breathing Air Filter, Climate Control Device, CO Monitor, Ambient Air Pump – You MUST consult the Operator's Manual supplied with your Respiratory Equipment (6, 7, 8, 9, 10, 17) for ALL applicable instructions and warnings. Inspect all Respiratory Equipment components for damage or wear. Repair or replace damaged or worn components.

Abrasive Blasting Suit and Gloves – Select an abrasive-resistant Abrasive Blasting Suit (11) that is slightly oversized to allow ease of movement and allows air to flow around your body. Select abrasive-resistant Gloves (12) with a tight fit and a long cuff that overlaps the sleeve of the Abrasive Blasting Suit (11).

Abrasive Metering Valve and Abrasive Blasting Pot – Confirm Abrasive Blasting Pot (25) is positioned on stable ground. Inspect Abrasive Blasting Pot (25) and Abrasive Metering Valve (21) for damage or wear. Repair or replace damaged or worn components.

Abrasive Blasting Pot Screen and Abrasive Blasting Pot Lid – Always use an Abrasive Blasting Pot Screen (26) when filling Abrasive Blasting Pot (25) with Abrasive (1) to prevent debris from entering the Abrasive Blasting Pot (25). Remove Abrasive Blasting Pot Lid (27) before operating the Abrasive Blasting Pot (25). Install Abrasive Blasting Pot Lid (27) after use to protect the Abrasive Blasting Pot's (25) interior.

Remote Control System, Remote Control Switch, Control Line, – Inspect Remote Control System (22) and Control Line (18) for damage or wear. Repair or replace damaged or worn components. Ensure Control Line (18) fittings connected to the Remote Control System (22) are tight and free of leaks. Ensure Remote Control Switch (16) is functioning properly. Consult Remote Control Switch Operator's Manual for applicable instructions.

Abrasive Blasting Pot Exhaust Muffler – Inspect Abrasive Blasting Pot Exhaust Muffler (24) at start and end of daily use. Replace element of Abrasive Blasting Pot Exhaust Muffler (24) per Operator's Manual instructions.

Lighting System – Ensure the Lighting System (14) is connected to a proper power supply before use.



Inspect all equipment for wear or damage before and after each use. Failure to use Original Equipment Manufacturer repair parts and failure to immediately replace worn or damaged components could void warranties and cause malfunctions. Failure to comply with the above warning could result in death or serious injury.



This product is not for use in wet environments. Always use a Ground Fault Interrupter Circuit (GFIC) for all electrical power source connections. Use of this product in wet environments could create a shock or electrocution hazard. Failure to comply with the above warning could result in death or serious injury.



This equipment is not intended for use in any area that might be considered a hazardous location, as described in the National Electric Code NFPA 70, Article 500. Use of this equipment in a hazardous location could cause an explosion or electrocution. Failure to comply with the above warning could result in death or serious injury.



All electrical connections are to be made by a qualified electrician in accordance with all applicable codes, ordinances and good practices. Failure to comply with the above warning could result in death or serious injury.

Description

A moisture management system removes moisture, oil, and other debris from the abrasive blasting air stream. Moisture and debris in an abrasive blasting system will cause abrasive to clump, clogging the metering valve, hoses, and nozzle. Dry, clean compressed air prevents clumping, increases production and reduces maintenance costs. The Blastmaster[®] 400 CFM Cart Mounted Aftercooler removes up to 95% of moisture, oil, and other debris commonly found in compressed air. Dry air eliminates wet abrasive, typically clogging metering valves and leading to excessive wear, resulting in costly downtime and additional maintenance. Typical applications include blast yards, bridges, oil refineries, pipelines, shipyards, and storage tanks. Commonly used with abrasive blasting pots, airless sprayers, conventional sprayers, and pneumatic tools.

Operational Requirements

Pneumatic:

• Air supply of 50 cfm @ 60 psi.

The following may cause safety hazards or reduced performance:

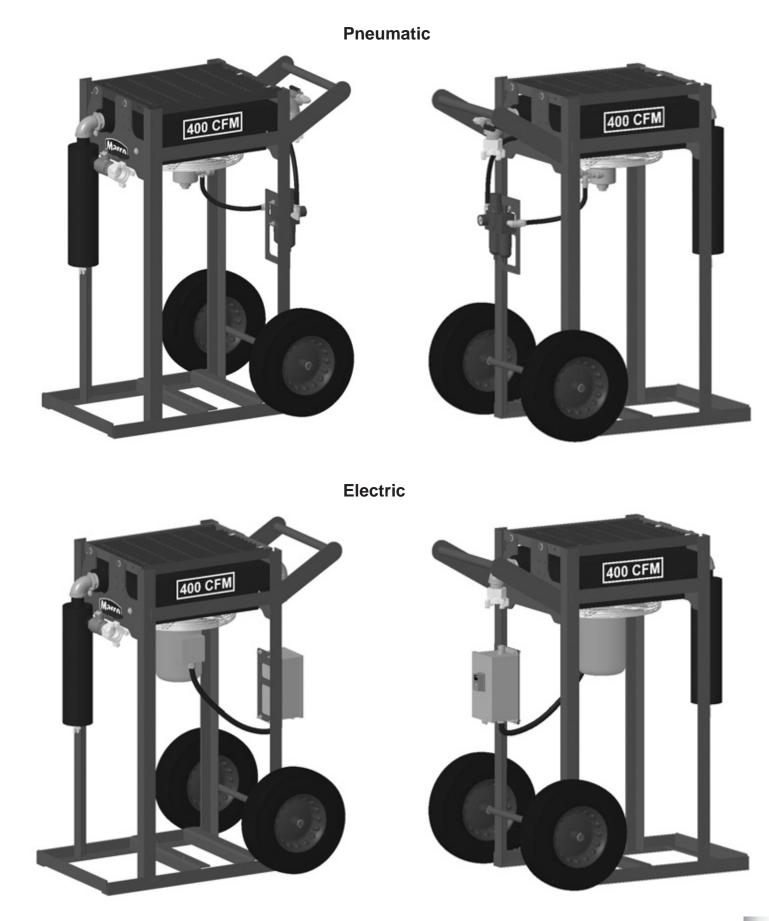
- Improper installation and/or maintenance of components.
- · Incorrect disassembly and/or incorrect reassembly.
- Allowing heat exchanger to become obstructed or coated with dust/dirt.
- Improper air supply pressure and/or volume.
- Not maintaining lubrication for air motor.

Electric:

• Have a qualified electrician connect 115 volts or 230 volts (depending on unit purchased), 60 Hz, Single Phase power source to control box and fan motor.

The following may cause safety hazards or reduced performance:

- Improper installation and/or maintenance of components.
- · Incorrect disassembly and/or incorrect reassembly.
- Allowing heat exchanger to become obstructed or coated with dust/dirt.
- Improper electric supply.





Inspect all equipment for wear or damage before and after each use. Failure to use Original Equipment Manufacturer repair parts and failure to immediately replace worn or damaged components could void warranties and cause malfunctions. Failure to comply with the above warning could result in death or serious injury.



This product is not for use in wet environments. Always use a Ground Fault Interrupter Circuit (GFIC) for all electrical power source connections. Use of this product in wet environments could create a shock or electrocution hazard. Failure to comply with the above warning could result in death or serious injury.



This equipment is not intended for use in any area that might be considered a hazardous location, as described in the National Electric Code NFPA 70, Article 500. Use of this equipment in a hazardous location could cause an explosion or electrocution. Failure to comply with the above warning could result in death or serious injury.



Transporting, lifting, or moving this device must be in accordance with applicable OSHA standards and ASME B30 standards, as well as any applicable local, state, or federal requirements. Failure to comply with the above warning could result in death or serious injury.

Operating Instructions

Pneumatic

Before use:

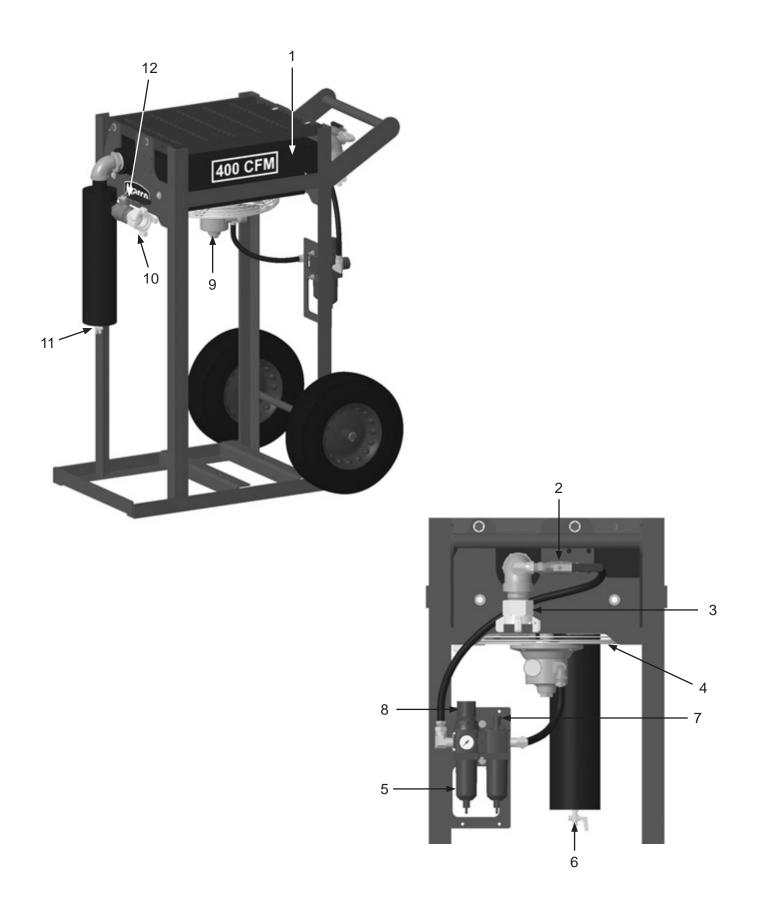
- Ensure Blastmaster[®] 400 CFM Cart Mounted Aftercooler is placed on a flat, solid, level surface capable of supporting the unit's weight.
- Inspect for damage and loose pipe fittings and bolts. Tighten any loose pipe fittings or bolts and replace any damaged components before use.
- Inspect Blastmaster[®] 400 CFM Cart Mounted Aftercooler for dust, dirt, debris or obstructions. Clean or clear away any foreign matter.
- Using a screwdriver or similar device, gently rotate Fan Blades (4) to confirm free movement. If the Fan Blades do not move freely, remove obstruction or replace Fan Blade and Motor Assembly (9) before use.
- Open Drain Valves (6,11) to release any liquid. Close Drain Valves once liquid stops flowing.
- Fill Air Motor Lubricator (5) with SAE 10 oil or air tool anti-freeze lubricant.
- Close Ball Valves (2,12).
- Connect air supply hose from compressor to Air Inlet (10).
- Connect air supply hose from Air Outlet (3) to a moisture collection device.
- Turn on compressor air supply.
- Slowly open Inlet Ball Valve (12), looking and listening for leaks. If leaks are found, turn off air supply, open Drain Valve (11), allow air pressure to completely release. Repair leaks as needed.
- Slightly open Drain Valve (11) to release collected moisture.
- Slowly open Air Supply Ball Valve (2) to Air Motor (9).
- Adjust Air Motor Pressure Regulator (8) to 60 psi for proper Cooling Fan speed. Do not exceed 60 psi. NOTE: The Air Motor uses 50 CFM at 60 psi.
- Watch the lubricant flow through the combination Control Knob/ Sight Dome (7) on top of the Air Motor Lubricator (5), adjust the flow to one drop per minute. NOTE: Failure to maintain lubrication of Air Motor (9) will cause the motor to fail.

During use:

- Check volume of lubricant in Air Motor Lubricator (5) every 60 minutes. Add lubricant as needed.
- Observe Drain Valve (11) for release of liquids. If no liquid is being released, adjust as needed.

After use:

- Turn off compressed air supply.
- Close Air Supply Inlet Ball Valve (2) to Air Motor (9).
- Slowly open Drain Valve (11) to release collected liquid and stored compressed air. Once all pressure is released, close Inlet Ball Valve (12) disconnect compressed air supply from Air Inlet (10) and Air Outlet (3).
- Close Drain Valves (6,11).
- Clean Blastmaster® 400 CFM Cart Mounted Aftercooler.
- Cover or move Blastmaster[®] 400 CFM Cart Mounted Aftercooler inside for storage.



A WARNING

Inspect all equipment for wear or damage before and after each use. Failure to use Original Equipment Manufacturer repair parts and failure to immediately replace worn or damaged components could void warranties and cause malfunctions. Failure to comply with the above warning could result in death or serious injury.

A WARNING

This product is not for use in wet environments. Always use a Ground Fault Interrupter Circuit (GFIC) for all electrical power source connections. Use of this product in wet environments could create a shock or electrocution hazard. Failure to comply with the above warning could result in death or serious injury.



This equipment is not intended for use in any area that might be considered a hazardous location, as described in the National Electric Code NFPA 70, Article 500. Use of this equipment in a hazardous location could cause an explosion or electrocution. Failure to comply with the above warning could result in death or serious injury.



Transporting, lifting, or moving this device must be in accordance with applicable OSHA standards and ASME B30 standards, as well as any applicable local, state, or federal requirements. Failure to comply with the above warning could result in death or serious injury.

Electric

Before use:

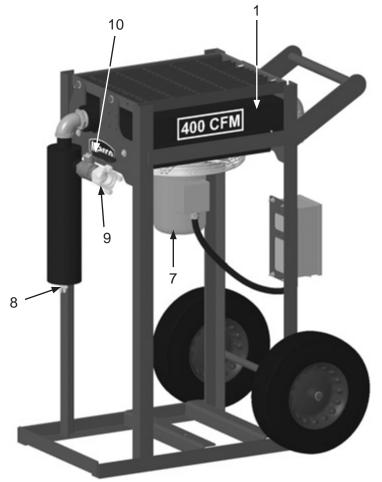
- Ensure the Blastmaster[®] 400 CFM Cart Mounted Aftercooler is placed on a flat, solid, level surface capable of supporting the unit's weight and is in a stable position.
- Inspect for damage and loose pipe fittings and bolts. Tighten any loose fittings or bolts and replace any damaged components before use.
- Inspect Blastmaster[®] 400 CFM Cart Mounted Aftercooler for dust, dirt, debris or obstructions. Clean or clear away any foreign matter.
- Using a screwdriver or similar device, gently rotate Fan Blades (3) to confirm free movement. If the Fan Blades do not move freely, remove obstruction or replace Electric Fan Blade and Motor Assembly (7) before use.
- Open Drain Valve (8) fully to release any liquid. Close Drain Valve once liquid stops flowing.
- Close inlet Ball Valve (10).
- Connect airline from compressor to Air Inlet (9).
- Connect airline from Air Outlet (2) to a moisture collection device.
- Turn on air supply to Blastmaster® 400 CFM Cart Mounted Aftercooler.
- Slowly open Inlet Ball Valve (10), looking and listening for leaks. If leaks are found, turn off air supply, open Drain Valve (3), allow air pressure to completely release. Repair leaks as needed.
- Slightly open Drain Valve (8) to release collected moisture.
- Start Electric Motor (7) by pressing "Start" (6) on Starter Box (4).

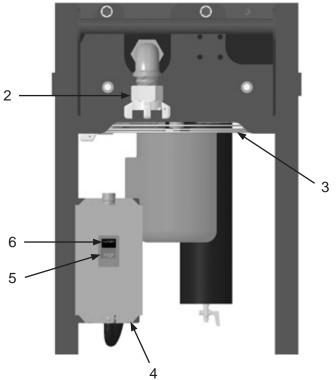
During use:

- Inspect Blastmaster® 400 CFM Cart Mounted Aftercooler for leaks.
- Observe Drain Valve (8) for release of liquids. If no liquid is being released, adjust as needed.

After use:

- Turn off air supply to Blastmaster® 400 CFM Cart Mounted Aftercooler .
- Turn off Electric Motor (7) by pressing "Stop" (5) on Starter Box (4).
- Slowly open Drain Valve (8) to release collected liquid and stored compressed air. Close Drain Valve once liquid stops flowing. Once all pressure is released, disconnect Air hose from Air Inlet (9) and Air Outlet (2).
- Clean Blastmaster® 400 CFM Cart Mounted Aftercooler.
- Close Inlet Ball Valve (10) and Drain Valve (8).
- Cover or move Blastmaster[®] 400 CFM Cart Mounted Aftercooler inside for storage.



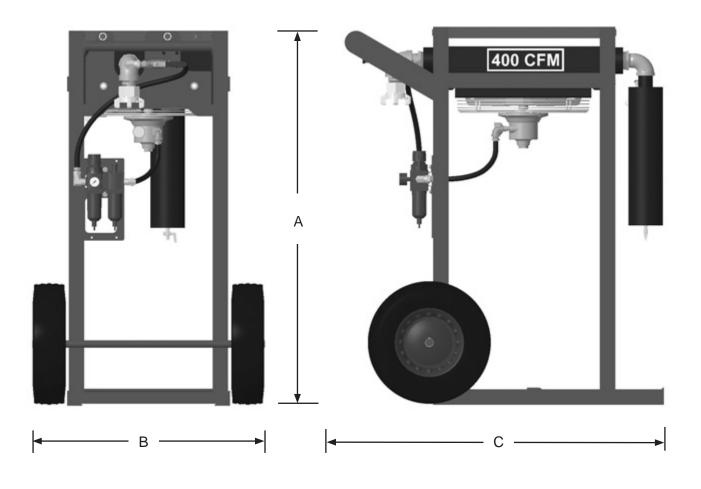


SPECIFICATIONS

Lubrication SAE 10 oil or Air Tool Anti-freeze Lubricant

Tank Outlet Ports 1 – 1-1/2"

Tank Inlet Ports 1 – 1-1/2"



Empty Weight: 300 lbs

Overall Dimensions:

А.	43	1/4
B:	30	1/2"

C: 42 1/2"

Pneumatic model shown, Electric model has same dimensions.

A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.



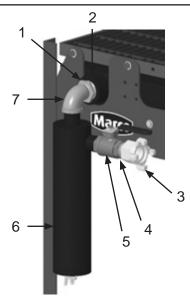
Moving parts can present an area where crushing, pinching, entanglement or amputation may occur. Do not place body parts or foreign objects in any area where there are moving parts. Failure to comply with the above warning could result in death or serious injury.



Piping may loosen during transit. Ensure all piping is aligned and tightened before use.

Remove & Install Intake Filter Assembly

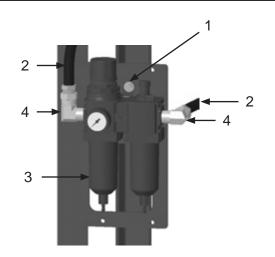
- 1) Depressurize entire system.
- Remove Full Port Ball Valve (5), Close Nipple (4), and Air Fitting (3) from Intake Filter (6).
- Remove Intake Filter (6), 90° Elbow (7), and Bushing (1) from Inlet Port (2).
- 4) Install parts in reverse order.



Pneumatic model shown, Electric model is same.

Remove & Install Filter/Regulator/Lubricator Assembly (Pneumatic Only)

- 1) Depressurize entire system.
- 2) Disconnect Hoses (2) and remove Swivels (4).
- Remove two Bolts, Four Washers, two Lock Washers and two Nuts (1) and remove Filter/Regulator/Lubricator (3).
- 4) Install parts in reverse order.

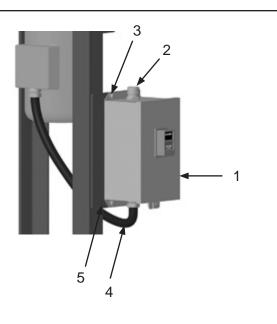


Remove & Install Starter Box Assembly (Electric Only)

A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

- 1) Depressurize entire system.
- Disconnect from power supply.
 Disconnect Power Cord (2) (not
- included) from Starter Box (1).4) Disconnect wiring inside StarterDisconnect wiring inside Starter
- Box (1). Remove Conduit (4) from Starter Box (1).
- 5) Remove Screws and Nuts (3) from Starter Box (1) to remove from Starter Box Bracket (5).
- 6) Install parts in reverse order.



Remove & Install Air Outlet Assembly (Pneumatic Only)

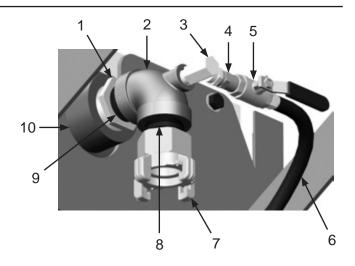
A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.



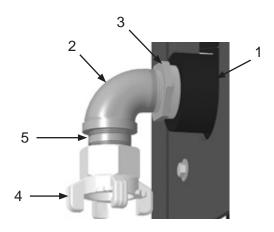
Piping may loosen during transit. Ensure all piping is aligned and tightened before use.

- Depressurize entire system.
- 2) Disconnect Hose (6).
- Remove Full Port Ball Valve (5), Hex Nipple (4), and 90° Swivel (3).
- 4) Remove Air Fitting (7), Close Nipple (8), 90° Elbow (2), Nipple (9), and Bushing (1) from Outlet Port (10).
- 5) Install parts in reverse order.



Remove & Install Air Outlet Assembly (Electric Only)

- 1) Depressurize entire system.
- Remove Air Fitting (4), Close Nipple (5), 90° Elbow (2), and Bushing (3) from Outlet Port (1).
- 3) Install parts in reverse order.



Remove & Install Aftercooler Assembly (Pneumatic Only)

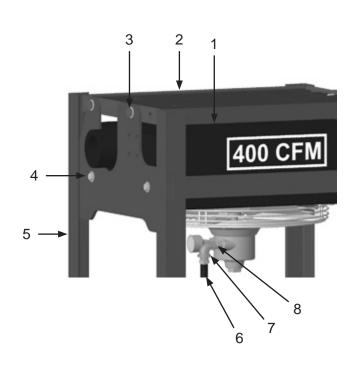
A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.



Moving parts can present an area where crushing, pinching, entanglement or amputation may occur. Do not place body parts or foreign objects in any area where there are moving parts. Failure to comply with the above warning could result in death or serious injury.

- 1) Depressurize entire system.
- Remove Intake Filter Assembly. See Remove & Install Intake Filter Assembly.
- Remove Air Outlet Assembly. See Remove & Install Air Outlet Assembly (Pneumatic Only).
- 4) Disconnect Hose (6).
- 5) Remove Elbow (7) and Nipple (8).
- Remove Bolts, Washers, Lock Washers and Nuts (3) from Protective Grate (2) and remove from Main Frame (5).
- Remove Bolts and Washers (4) from Aftercooler Assembly (1) and remove from Main Frame (5).
- 8) Install parts in reverse order.



Remove & Install Aftercooler Assembly (Electric Only)

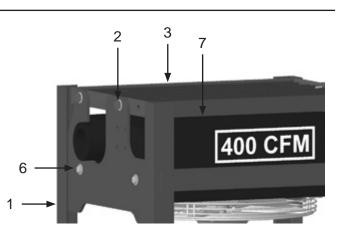
A WARNING

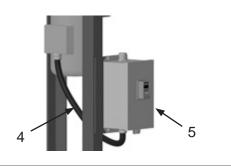
Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

A WARNING

Moving parts can present an area where crushing, pinching, entanglement or amputation may occur. Do not place body parts or foreign objects in any area where there are moving parts. Failure to comply with the above warning could result in death or serious injury.

- 1) Depressurize entire system.
- Remove Intake Filter Assembly. See Remove & Install Intake Filter Assembly.
- Remove Air Outlet Assembly. See Remove & Install Air Outlet Assembly (Electric Only).
- 4) Disconnect Conduit (4) from Starter Box (5).
- 5) Remove Bolts, Washers, Lock Washers and Nuts (2) from Protective Grate (3) and remove from Main Frame (1).
- Remove Bolts and Washers (6) from Aftercooler Assembly (7) and remove from Main Frame (1).
- 7) Install parts in reverse order.





TROUBLESHOOTING

A WARNING

Always depressurize the entire blasting system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.



Moving parts can present an area where crushing, pinching, entanglement or amputation may occur. Do not place body parts or foreign objects in any area where there are moving parts. Failure to comply with the above warning could result in death or serious injury. If the Blastmaster[®] 400 CFM Cart Mounted Aftercooler does not function properly, check the following:

Pneumatic

SYMPTOM (Cause)	ACTION		
Fan Blades not turning (Improper air supply, Obstruction,	Check air supply to air motor - confirm supply air is on and set to 60 psi.		
Damaged components, Lack of lubricant,	Clear any obstructions from fan blades.		
Muffler obstructed or fouled)	Inspect fan blades for damage. Replace damaged components.		
	Test fan blades for free movement. If air motor does not move, repair or replace air motor.		
	Clear any obstructions from exhaust muffler. Replace muffler if fouled.		
Fan Blades turning slowly (Improper air supply, Obstruction,	Check air supply to air motor - confirm supply air is on and set to 60 psi.		
Damaged components, Lack of lubricant, Muffler obstructed or fouled)	Clear any obstructions from fan blades.		
mumer obstructed of fouled)	Inspect fan blades for damage. Replace damaged components.		
	Test fan blades for free movement. If air motor moves, but not freely, confirm lubricator is working properly (see Operating Instructions), introduce lubricant directly into air motor intake, rotate fan blades 3 to 4 complete rotations, then test again. If blades do not move freely, repair or replace air motor.		
	Clear any obstructions from exhaust muffler. Replace muffler if fouled.		
Inlet Filter not draining collected moisture	Inspect drain valve for damage. Replace damaged components.		
(Damaged components, Obstruction)	Inspect drain valve for visible obstruction. Clear obstruction.		
	If no damage or visible obstructions are found, disassemble drain pipe string, inspecting for internal obstructions. With pipe string removed from tank, examine attachment point for debris or obstructions.		

TROUBLESHOOTING

A WARNING

Always depressurize the entire blasting system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.



Moving parts can present an area where crushing, pinching, entanglement or amputation may occur. Do not place body parts or foreign objects in any area where there are moving parts. Failure to comply with the above warning could result in death or serious injury.



All electrical connections are to be made by a qualified electrician in accordance with all applicable codes, ordinances and good practices. Failure to comply with the above warning could result in death or serious injury. If the Blastmaster[®] 400 CFM Cart Mounted Aftercooler does not function properly, check the following:

Electric

SYMPTOM (Cause)	ACTION		
Fan Blades not turning (Failed fuse, Improper electric supply,	Check the thermal unit and replace as needed.		
Improper connection, Obstruction, Damaged components)	Check the power supply and confirm power supply is compatible with electric motor.		
	Check the connections to power supply and confirm solid contact.		
	Clear any obstructions from fan blades.		
	Inspect fan blades for damage. Replace damaged components.		
	Test fan blades for free movement. If electric motor does not move freely, replace electric fan blade and motor assembly.		
Fan Blades turning slowly (Improper electric supply, Improper	Check the connections to power supply and confirm solid contact.		
connection, Obstruction, Damaged	Clear any obstructions from fan blades.		
components)	Inspect fan blades for damage. Replace damaged components.		
	Test fan blades for free movement. If electric motor does not move freely, replace electric fan blade and motor assembly.		
Inlet Filter not draining collected moisture	Inspect drain valve for damage. Replace damaged components.		
(Damaged components, Obstruction)	Inspect drain valve for visible obstruction. Clear obstruction.		
	If no damage or visible obstructions are found, disassemble drain pipe string, inspecting for internal obstructions. With pipe string removed from tank, examine attachment point for debris or obstructions.		

MAINTENANCE NOTES

DATE	TYPE OF SERVICE	PART NUMBER

MAINTENANCE NOTES

DATE	TYPE OF SERVICE	PART NUMBER

MAINTENANCE NOTES

DATE	TYPE OF SERVICE	PART NUMBER

ADDITIONAL TECHNICAL DATA

The associations listed below offer information, materials and videos pertaining to abrasive blasting and safe operating practices.

 American Society for Testing and Materials (ASTM) 100 Barr Harbor Drive West Conshohockon, PA 19428-2959

> Phone: (610) 832-9585 FAX: (610) 832-9555 www.astm.org

 Occupational Safety & Health Administration (OSHA) United States
 Department of Labor
 200 Constitution Avenue
 Washington, DC 20210

Phone: (800) 321-OSHA (800) 321-6742 www.osha.gov

 The National Board of Boiler & Pressure Vessel Inspectors
 1055 Crupper Avenue Columbus, Ohio 4322

Phone: (614) 888-8320 FAX: (614) 888-0750 www.nationalboard.org

 National Association of Corrosion Engineers (NACE)

1440 South Creek Drive Houston, TX 77084-4906 Phone: (281) 228-6200 FAX: (281) 228-6300 www.nace.org

 The Society for Protective Coatings (SSPC)
 40-24th Street, 6th Floor

Pittsburgh, PA 15222-4656 Phone: (412) 281-2331 FAX: (412) 281-9992

www.sspc.org American National Standards Institute

(ANSI) 1899 L Street, NW, 11th Floor Washington, DC 20036

Phone: (202) 293-8020 FAX: (202) 293-9287 www.ansi.org

LIMITED WARRANTY

Seller warrants to the original purchaser that the Product covered by this Limited Warranty will remain free from defects in workmanship or material under normal commercial use and service for a period of one year from the date of shipment to the original Purchaser. This Warranty shall not apply to defects arising, in whole or in part, from any accident, negligence, alteration, misuse or abuse of the Product, operation of the Product which is not in accordance with applicable instructions or manuals or under conditions more severe than, or otherwise exceeding, those set forth in the written specifications for the Product, nor shall this Warranty extend to repairs or alterations of the Product and/or any maintenance part by persons other than Seller or Seller's authorized representatives. This warranty does not apply to accessory items. Further, this Warranty does not apply to damage or wear to the surface finish or appearance of the Product or normal wear and tear to the Product. This Warranty is limited to a purchaser who purchases the Product either directly from the Seller or from one of Seller's "Authorized Distributors". An Authorized Distributor is a Seller approved distributor that purchases the Product directly from the Seller for the sole purpose of re-selling the Product at retail, without any use or modifications whatsoever, to an end-purchaser. This warranty is specifically non-assignable and non-transferable.

DISCLAIMER OF WARRANTY

The foregoing Limited Warranty is exclusive and is in lieu of all other warranties, whether oral or written and whether express, implied, or statutory. SELLER HEREBY DISCLAIMS ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE AND ALL SUCH OTHER WARRANTIES ARE HEREBY EXCLUDED AND ARE INAPPLICABLE TO THE PRODUCT. Seller makes no warranties or representations of any kind concerning respirators, or equipment made by other manufacturers. Seller's agents and representatives are not authorized to offer any further warranties.

EXCLUSIVE REMEDY FOR WARRANTY CLAIMS

THE SOLE AND EXCLUSIVE REMEDY UNDER THE FOREGOING LIMITED WARRANTY, AND TO THE EX-TENT PERMITTED BY LAW, ANY WARRANTY OR CONDITION IMPLIED BY LAW, COVERING THIS PROD-UCT SHALL BE, AT THE SELLER'S OPTION, THE REPAIR OR REPLACEMENT, FREE OF CHARGE, F.O.B. POINT OF MANUFACTURE. OF ANY DEFECTIVE PART OR PARTS OF THE PRODUCT THAT WERE MANU-FACTURED BY SELLER, AND WHICH ARE RETURNED TO SELLER AT SELLER'S PRINCIPAL PLACE OF BUSINESS, POSTAGE PREPAID BY THE PURCHASER. THIS SOLE AND EXCLUSIVE REMEDY IS CON-DITIONED UPON PURCHASER'S PROMPT WRITTEN NOTICE TO SELLER AT SELLER'S PLACE OF BUSI-NESSTHATADEFECT HAS BEEN DISCOVERED, TOGETHER WITH AREASONABLY DETAILED DESCRIP-TION OF THE DEFECT IN THE PRODUCT, PROOF OF PURCHASE OF THE PRODUCT, AND THE MODEL AND IDENTIFICATION NUMBER OF THE PRODUCT WITHIN THIRTY (30) DAYS AFTER DISCOVERY OF THE DEFECT, OTHERWISE SUCH CLAIMS SHALL BE DEEMED WAIVED. NO ALLOWANCE WILL BE GRANTED FOR ANY REPAIRS OR ALTERATIONS MADE BY PURCHASER OR OTHERS WITHOUT SELLER'S PRIOR WRITTEN CONSENT. IF SUCH NOTICE IS TIMELY GIVEN, SELLER WILL HAVE THE OPTION TO EITHER MODIFY THE PRODUCT OR COMPONENT PART THEREOF TO CORRECT THE DEFECT. REPLACE THE PRODUCT OR PART WITH COMPLYING PRODUCTS OR PARTS, OR REFUND THE AMOUNT PAID FOR THE DEFECTIVE PRODUCT, ANY ONE OF WHICH WILL CONSTITUTE THE SOLE LIABILITY OF SELLER AND FULL SETTLEMENT OF ALL CLAIMS. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY OBLIGATION GREATER THAN THE ORIGINAL PURCHASE PRICE OF THE PRODUCT UNDER THIS WARRANTY. PUR-CHASER SHALLAFFORD SELLER PROMPTAND REASONABLE OPPORTUNITY TO INSPECT THE PROD-UCT FOR WHICH A CLAIM IS MADE. THE SOLE PURPOSE OF THE FOREGOING STIPULATED EXCLUSIVE REMEDY SHALL BE TO REPAIR OR REPLACE DEFECTIVE PRODUCTS OR COMPONENTS THEREOF, OR TO REFUND PURCHASER THE PURCHASE PRICE THEREOF. THIS STIPULATED EXCLUSIVE REMEDY SHALL NOT BE DEEMED TO HAVE FAILED OF ITS ESSENTIAL PURPOSE SO LONG AS SELLER IS WILL-ING AND ABLE TO REPAIR OR REPLACE THE DEFECTIVE PARTS OR REFUND THE PURCHASE PRICE IN ACCORDANCE WITH THE TERMS HEREOF. PRODUCTS THAT HAVE BEEN REPAIRED OR REPLACED UN-DER THIS WARRANTY DO NOT RECEIVE A NEW WARRANTY AND ARE ONLY COVERED BY THE REMAIN-ING PORTION OF THE ORIGINAL WARRANTY.

LIMITATION OF REMEDIES

The foregoing stipulated exclusive remedy is in lieu of all other remedies for breach of contract, warranty, and/or tort or otherwise. Seller shall not be liable, either directly or indirectly, for any consequential, incidental or special losses or damages of Purchaser, including but not limited to the Purchaser's expenses for downtime or for making up downtime, damages for which the Purchaser may be liable to other persons and/or entities, damages to property, and injury to or death of any persons and/or any claims for incidental or consequential damages, including but not limited to loss of profits, regardless of whether Seller has been informed of the possibility of such damages. Seller neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale or use of any Products covered by the foregoing Warranty and Disclaimers, and there are no oral agreements relating to remedies which are collateral to or which affect this limitation.

40+NATIONWIDESHIPPINGLOCATIONS

CONTACT CENTER

 3425 East Locust Street Davenport, IA 52803

ph: 800.BLAST.IT (800.252.7848) ph: 563.324.2519 fax: 563.324.6258

REGIONALBRANCHOFFICES

- lowa Davenport
- Louisiana Gonzales Lafayette
- Ohio Youngstown

Texas
 Beaumont
 Corpus Christi
 Deer Park



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