MOD-U-BLAST

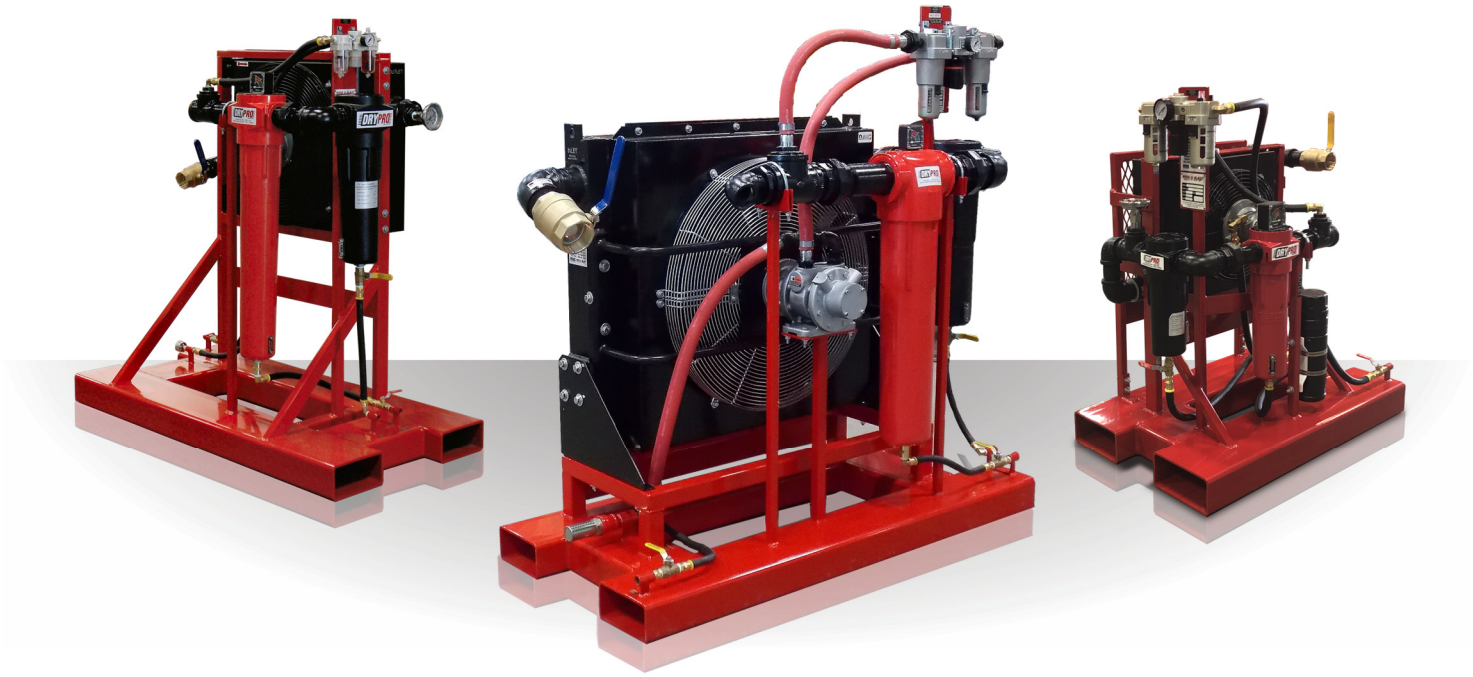
POWERED BY ALLREDI

AFTERCOOLERS

250 CFM, 450 CFM, 750 CFM, 1000 CFM, & 1600 CFM

OPERATOR'S MANUAL

DRYPRO MOD-U-BLAST



SUPERIOR PERFORMANCE

AND QUALITY IN BLAST CLEANING EQUIPMENT

WARNING

READ MANUAL

Failure to read, understand & follow all safety and operation procedures in this manual can cause injury or death. Manuals that are lost, incomplete, or damaged, must be replaced immediately.

Manual #AC 2510

PH: +1 (800) 661-3842

WWW.ALLREDI.COM

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IMPORTANT NOTICE

TO DISTRIBUTORS, PURCHASERS AND END USERS OF MOD-U-BLAST PRODUCTS
The information provided described and illustrated in this material is intended for experienced, knowledgeable users of abrasive blasting equipment and supplies (products).

The products described in this material may be combined as determined solely by the user in a variety of ways and purposes. However no representations are made as to intended use, performance standards, engineering suitability, safe practices or compliance with government regulations and laws that apply to these products, products of others, or a combination of various products chosen by the user or others. It is the responsibility of the users of these products, products of third parties, and a combination of various products, to exercise caution and familiarize themselves with all applicable laws, government regulations and safety requirements.

Nor are representations made or intended as to the useful life, maintenance cycles, efficiency or performance of the referenced products of any combination of products. This material must not be used for estimating purposes. Production rates, labour performance or surface finishes are the sole responsibility of the user based on the user's expertise, experience and knowledge of industry variables.

It is the responsibility of the user to insure that proper and comprehensive training of operators has been performed and all environmental and safety precautions observed.

Mod-U-Blast Inc. provides a variety of excellent products to the surface preparation industry, and we are confident that all proficient users, operators and contractors in this industry will continue to use our products in a safe and knowledgeable manner.

Before using this product, read all instructions, literature, labels, specifications and warnings sent with and affixed to the unit.

If operation of the unit is unclear after reading this manual, contact your supervisor for instructions. It is the responsibility of the employer to read the following instructions to users of this equipment. Periodic inspection at the work site should be made by supervisory personnel to ensure the blast machine is being properly used and maintained. A copy of this owner's manual must be kept with the blast machine and readily accessible to the blast machine operators at all times.

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INTRODUCTION

This manual provides important information concerning the Mod-U-Blast DryPro moisture removal systems to ensure safe use of the equipment.



Before attempting to use this air dryer, please read these instructions. This manual should be kept in the document holder attached to the unit.

NOTE: Attempting to operate this equipment without reading this manual will likely cause the equipment to fail, injury and/or may void the warranty.

IMPORTANT SAFETY INSTRUCTIONS



If you feel the equipment has been damaged or is in an unsafe condition, inform your supervisor and wait until the issue is resolved before using the equipment. If necessary, contact the manufacturer or an authorized representative in order to repair the damage.

IMPORTANT SAFETY INSTRUCTIONS!



WARNING: When using this moisture removal package basic precautions should always be followed, including the following:

1. Read Read all instructions before using this equipment.
2. This moisture removal system can be used for indoor/outdoor.
3. Know how to stop the system and release pressures quickly. Be familiar with all the controls.
4. Stay alert - watch what you are doing.
5. Do not disconnect air hoses while the system is under pressure.



DO NOT ATTEMPT TO REMOVE OR REPAIR ANY PART OF THIS SYSTEM UNTIL IT IS COMPLETELY DEPRESSURIZED, SERIOUS PERSONAL INJURY OR DEATH MAY RESULT IF THIS WARNING IS NOT FOLLOWED.



WARNING: Use proper PPE when servicing this unit.



DO NOT OPERATE THIS EQUIPMENT OVER 230 PSI

NOTE: Operating these units inside an enclosed area without proper ventilation will greatly decrease their moisture removal efficiency.

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HOW THIS SYSTEM WORKS

The approach air coming out from the compressor can be upwards of 200˚F or 93˚C. This air needs to be cooled in order remove the water vapour contained in the hot compressed air.

Our moisture removal packages use an aftercooler to cool the air to between 50˚ to 85˚F which then flows through a moisture separator to remove the water that has been released out of the compressed air. Our system also has coalescer in line to trap any oil particulates that may pass from the compressor.

This moisture removal system will remove 95% of the water from the compressed air.

START-UP OPERATION

1. Connect an air hose from the air compressor to the inlet of the aftercooler. Keep the aftercooler inlet ball valve closed.

2. Connect an air hose from the moisture removal system outlet to the blast pot air inlet.

3. Start the air compressor.

4. Slowly open the air outlet ball valve at the compressor to pressurize the air line.

5. Slowly open the air inlet ball valve at the moisture removal system to pressurize the system.

6. Adjust the regulator for the air motor on the Filter-Regulator-Lubricator (FRL) (Instructions next page) to read the working pressure (PSI) on the label. NOTE: On hot days run the air motor at maximum pressure. (see chart next page)

7. Adjust the oil output on the lubricator (Clear Dial) by turning clockwise or counter clockwise until there are the required drops of oil every minute. (see chart next page)

8. Open the air supply to the equipment. (if ball valve is equipped)

9. Slightly open the ball valve for the moisture separator (black canister) and let it drain while using the unit.

NOTE: COLD WEATHER OPERATION - The fan air motor should be regulated so that the aftercooler temperature gauge reads above 0°C to avoid freezing the aftercooler core assembly. The aftercooler has a drain installed for cold weather climate areas and should be drained after every use to avoid core damage. Leave the all drains open when not in use.

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FILTER-REGULATOR-LUBRICATOR (FRL)



PRESSURE, CFM & OIL REQUIREMENTS FOR THE AFTERCOOLER AIR MOTORS

UNIT NUMBER	WORKING PRESSURE PSI	MAXIMUM PRESSURE PSI	CFM REQUIRED	OIL DROPS PER MINUTE
DSA-250MS-M (P)	22	60	17	1
DSA-450MS-M (P)	22	40	25	1
DSA-750MS-M	22	40	25	1
DSA-1000MS-M	22	50	70	1
DSA-1600MS-M	20	60	90	1

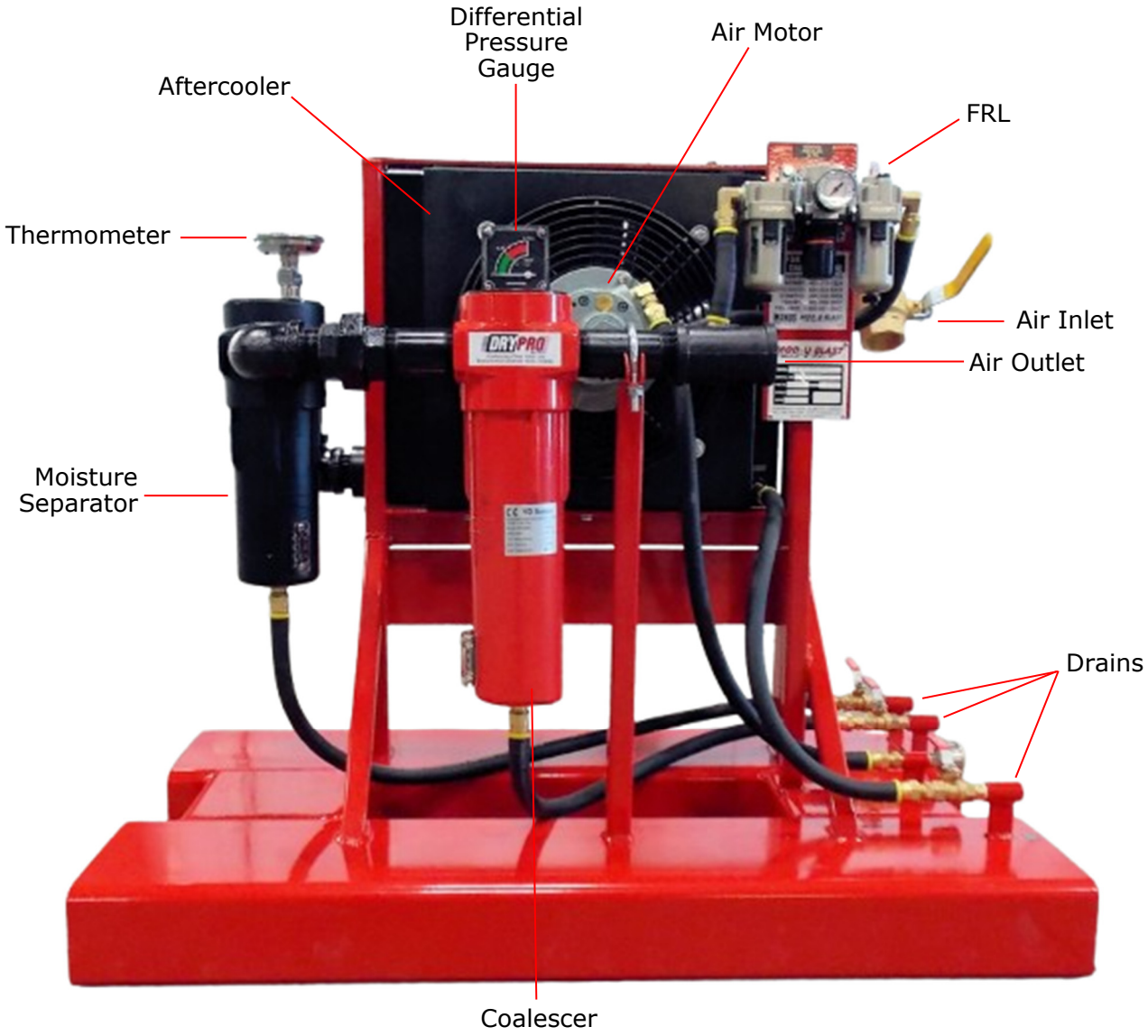
NOTE: Working pressure is at 21°C (70°F) ambient temperature.
In warmer weather the air motors can be operated up to or at the maximum pressure

SHUT DOWN

1. Close the ball valve on the outlet side of the aftercooler package or at the equipment. (if equipped)
2. Shut down the air supply compressor.
3. Open the drains for the aftercooler, coalescer and moisture separator fully.
4. After the air is removed, close the air inlet ball valve.
5. Leave all the drains open while storing.

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DRY-PRO SKID MOUNTED MOISTURE REMOVAL PACKAGE



DSA-250MS-M

Shown Here

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DRY-PRO PORTABLE MOISTURE REMOVAL PACKAGE



DSA-250MS-P
Shown Here

NOTE: **The same parts are used as with the skid version.**

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MOISTURE REMOVAL SYSTEM MAINTENANCE

DRY-PRO SKID MOUNTED & PORTABLE MOISTURE REMOVAL PACKAGE DIMENSIONS & WEIGHTS INLET & OUTLET SIZES:

SKID MOUNTED AFTERCOOLER	WIDTH INCHES	DEPTH INCHES	HEIGHT INCHES	WEIGHT LBS	INLET	OUTLET
DSA-250MS-M	38	24.5	32	270	2″	1-1/2″
DSA-450MS-M	41	26.5	36	295	2″	2″
DSA-750MS-M	46	28	45	520	2″	2″
DSA-1000MS-M	64	32	50	720	3″	3″
DSA-1600MS-M	60	28	61	806	3″	3″
PORTABLE AFTERCOOLER	**WIDTH INCHES**	**DEPTH INCHES**	**HEIGHT INCHES**	**WEIGHT LBS**	**INLET**	**OUTLET**
DSA-250MS-P	38.5	31.5	50.5	295	2″	1-1/2″
DSA-450MS-P	38.5	31.5	50.5	312	2″	2″

MAINTENANCE

CHECK OIL LEVEL IN LUBRICATOR

Verify that there is sufficient amount of oil in the lubricator and add oil as needed. ATF only (Automatic Transmission Fluid)

CLEAN AFTERCOOLER CORE

The rad core should be externally cleaned regularly. Accumulation of dirt or oils will greatly reduce the efficiency of the aftercooler. Dirt can be removed by blowing the core off with compressed air. If the core becomes coated with oil particles, it can be steam cleaned.

COALESCING FILTER

Check the condition of the oil removal filter element every 6 months & change annually. This filter has a differential pressure indicator and when the arrow is in the RED it is time to replace the element. When replacing the element make sure to clean and inspect the drain port.

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DRY-PRO MOISTURE REMOVAL SYSTEM PARTS

SKID MOUNTED & PORTABLE MOISTURE REMOVER PARTS LIST:

DESCRIPTION	STOCK #	DSA250MS-M DSA250MS-P QTY	DSA450MS-M DSA450MS-P QTY	DSA750MS-M QTY	DSA1000MS-M QTY	DSA1600MS-M QTY
Thermometer	20114	1	1	1	1	1
Filter, Regulator & Lubricator (FRL)	Stock # ➔	50-975	50-975	50-975	50-976	50-976
FRL Pressure Gauge	55415	1	1	1	1	1
Air Motor for Aftercooler	DAC-AMV4	1	1	1	-	-
Air Motor for Aftercooler	DAC-AM6	-	-	-	1	-
Air Motor for Aftercooler	DAC-AM8	-	-	-	-	1
Aftercooler (w/o air motor)	DAC-250A	1	-	-	-	-
Aftercooler (w/o air motor)	DAC-450A	-	1	-	-	-
Aftercooler (w/o air motor)	DAC-750A	-	-	1	-	-
Aftercooler (w/o air motor)	DAC-1000A	-	-	-	1	-
Aftercooler (w/o air motor)	DAC-1600A	-	-	-	-	1
Coalescer Replacement Element	DSC-250-DEL	1	-	-	-	-
Coalescer Replacement Element	DSC-450-DEL	-	1	-	-	-
Coalescer Replacement Element	DSC-750-DEL	-	-	1	-	-
Coalescer Replacement Element	DSC-1000-DEL	-	-	-	1	-
Coalescer Replacement Element	DSC-1600-DEL	-	-	-	-	1
Coalescer Differential Pressure Gauge	DSC-DPG	1	1	1	1	1
Coalescer & Moisture Separator Site Glass	DSCSG	1	1	1	1	1
Moisture Separator	Stock # ➔	DSM-385	DSM-385	DSM-800	DSM-1800	DSM-1800

NOTE: The skid units may have been substituted with AKG aftercoolers which will be labeled and designated with a CC prefix. Please check the unit to see what model of aftercooler is installed before ordering. All units with AKG aftercoolers please contact your Mod-U-Blast sales representative for price and availability.

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WARRANTY POLICY COVERAGE

Allredi warrants all equipment listed in this manual that is manufactured by Mod-U-Blast to be free of defects in material and workmanship from the date of sale to the end-user. Not withstanding any special, extended or limited warranty published by Mod-U-Blast will, for a period of TWELVE (12) months from the date of sale, repair or replace any part of the equipment determined by Mod-U-Blast to be defective.

This warranty applies only when the equipment is installed, operated and maintained in accordance with Mod-U-Blast's written recommendations.

This warranty does not cover, and Mod-U-Blast will not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Mod-U-Blast component parts.

This warranty is conditional upon the prepaid return of the equipment or part claimed to be defective to an authorized Mod-U-Blast distributor for verification of the claimed defect. (Proof of purchase may be required) If found to be defective then the Mod-U-Blast distributor will repair or replace free of charge any defective part. The equipment will be returned to the original purchaser, transportation prepaid. If the inspection of the equipment does not disclose any defect in material workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Mod-U-Blast's obligation and buyer's remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach or warranty must be brought forward within one (1) year of the date of sale.

Items sold, but not manufactured by Mod-U-Blast are subject to the warranty, if any, of their manufacturer. Mod-U-Blast will provide the purchaser with reasonable assistance in making any claim for the breach of these warranties.

The following items are not covered under the Mod-U-Blast Warranty policy:

- Any component or body of this equipment determined by Mod-U-Blast to be normal wear and tear.
- Parts subject to wear such as air motors, fan blades, hoses, filters, etc.

Claims will be honored only if the warranty card is returned within a period of two months from the factory shipping date.

The card can be returned to your Mod-U-Blast salesperson or mailed to the address below.

ALLREDI BLAST & ABRASIVES
6602-45 Street, Leduc, AB Canada, T9E 7C9
PH: (780) 468-2588 • FAX: (780) 465-7317

In the event of failure of this equipment Please contact an Allredi/Mod-U-Blast service centre.

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