

3 * Mounting Bracket Available

	Part Number	Description
1	52-533	Mini Desiccant Dryer
2	52-559	*Replacement Cartridge
3	52-542	*Mounting Bracket
4	52-540	Manual Drain
5	98-6144	O-Ring

General Maintenance & Troubleshooting Guide

Thank you for purchasing one of our high quality products. Proper application, installation and maintenance of this product will result in many years of satisfactory service. Please read the instructions below completely before installing your new unit.

Maximum Pressure: 150 PSIG for all units with clear poly carbonate bowls and/or differential pressure indicators. 200 PSIG for metal bowl units WITHOUT different pressure indicators. 500 PSIG for designated high pressure, black units.

Maximum Temperature: 125°F. For higher temperature applications, contact the manufacturer.

Except as specified by the manufacturer, this product is specifically designed for compressed air service (excluding life support applications). Use with any other fluid (liquid or gas) or in life support applications is a misapplication. Manufacturer's warranty is void in the event of a misapplication and the manufacturer assumes no responsibility for any resulting loss. Before using for any fluid or life support application, consult the manufacturer for approval.

For use with polycarbonate bowl and different pressure indicators:

DO NOT place units with polycarbonate bowls into service without the metal bowl guard installed. If the unit is in service without the metal bowl guard in place, the manufacturer's warranty is void and the manufacturer assumes no responsibility for any resulting loss.

Certain chemicals, compressor oils, solvents, household cleaners, paints, etc. will attack polycarbonate and cause cracking/crazing. Bowls and indicators should be inspected periodically and replaced if necessary. For information on materials which are harmful to polycarbonate, contact Mobay Chemicals or General Electric. Do not use indicators with systems that use synthetic compressor oils.

Installation instructions:



1. Install unit as close as possible to the point-of-use. The cooler the air entering the filter, the more efficient the water/oil removal. For maximum efficiency, air inlet temperature should be 40-70°F. DO NOT ALLOW UNIT TO FREEZE!
2. Avoid using fittings that will restrict air flow. Generally, the port size of the unit should be the same size or larger than the pipe size.
3. Install the unit in vertical position with the drain pointing down. Automatic drains have 1/8" NPT threaded ports for attachment of a drain hose to channel the condensate to a collection point. If using a drain hose, use as short a hose as possible and ensure hose is not crimped or otherwise restrict the flow of the condensate.
4. Ensure air flow through the unit is in the direction of the arrow on the indicator and/or head. WARNING: AIR FLOW IN OPPOSITE OF THE ARROW COULD DAMAGE THE ELEMENT AND/OR AUTOMATIC DRAIN.
5. Units with 1-1/4" ports and larger are shipped without the drain installed. Install the drain using a 1/2" pipe nipple provided prior to pressurizing the air system.
6. Units with flange ports are shipped without the differential pressure indicator installed. Install the indicator prior to pressurizing the air system.
7. When installing oil removal filters, purge all downstream lines of oil prior to installation of the unit.

Service instructions:


1. For units with manual drains, open drain at least daily. Sever water problems may require more frequent draining.
2. Replace filter elements every 6-12 months, depending on use. To replace:
 - a) Isolate unit and depressurize or depressurize the air system.
 - b) Remove bowl assembly by hand or for flange units, remove bolts at base of unit.
 - c) Unscrew/remove the element (for flange unit, remove pin securing filter media and pull out filter media)
 - d) Install new element by tightening by hand to a snug fit. DO NOT OVERTIGHTEN.
 - e) Clean bowl assembly and inspect polycarbonate bowls for cracks, crazing and replace if needed. To clean bowl, rinse with water and wipe clean. CAUTION: DO NOT TWIST FLOAT ASSEMBLY. DAMAGED TO ASSEMBLY WILL RESULT AND DRAIN WILL NOT FUNCTION PROPERLY.
 - f) Replace the bowl assembly and ensure it is securely installed.
 - g) Repressurize the system.

Air leaks from indicator	Indicator/seals damaged by chemical attack or UV exposure	Replace indicator assembly
Indicator shows RED with no air flowing through the unit	Defective indicator	Call factory and replace indicator assembly
Indicator shows RED with air flowing through the unit	Clogged filter element	Replace the filter element
	Air flow exceeds capacity of unit	Install a higher capacity unit
Air leaks from drain	Float assembly bent/damaged	Replace drain assembly
	Sediment clogged drain	Remove float assembly and clean bowl and drain (DO NOT USE SOLVENTS)- Contact the factory for drain instructions
Drain will not discharge	Float Assembly bent/damaged	Replace drain assembly
	Sediment clogged drain	Remove float assembly and clean bowl and drain (DO NOT USE SOLVENTS)- Contact the factory for drain instructions
	Air bubble trapped in drain housing (external drains only)	Open petcock or bleeder valve on top of drain to relieve air bubble
Particulate downstream of filter	Contamination from downstream piping	Replace downstream air lines or install a filter at the end of the line
	Insufficient level of filtration	Install a tighter filter in-line
	Element saturated with contamination	Replace the filter element
Water downstream of filter	Water vapor condensing after filter	Air entering filter is warmer than the air downstream - cool the air prior to the filter
	Element saturated with contamination	Replace the filter element
Oil downstream of filter	Air lines not purged of oil prior to installation	Replace downstream air lines or purge lines of oil
	Insufficient level of filtration	Install a tighter filter in-line
	Element saturated with contamination	Replace the filter element


Filters

 <p>52-533</p>	<p>This unit is a point of use oil/water filter with a desiccant drying cartridge for single gun painting operations where dry clean air is critical. Perfect for low volume shops.</p> <p>52-533 -Unit includes mini desiccant dryer.</p> <p>52-534 -Unit includes one regulator for single gun operation.</p> <p>Replacement Cartridge: 52-559</p>
 <p>52-511</p> <p>52-512</p> <p>52-513</p> <p>52-515</p> <p>52-516</p>	<p>The most effective low cost product on the market. This unit provides one (1) micron filtration of water and dirt in compressed air lines. Rated at 60 SCFM, these units are recommended for point of use applications. Features include manual drain, heavy duty metal bowl construction, easy spin-off cartridge replacement. Also included are metal regulator(s) and glass faced gage for accurate pressure control. Maximum air pressure is 150 PSIG.</p> <p>52-511 - Unit includes one regulator for one (1) gun operation.</p> <p>52-512 -Unit includes one regulator and main line blow off. Intended for one gun operation, this unit also includes two (2) - 1/4" ball valves.</p> <p>52-513 -Deluxe unit includes two (2) regulators for two (2) gun operation plus main line blow off. Also included are three (3) - 1/4" ball valves.</p> <p>52-515 -Unit includes 1/2" port sizes and comes standard with auto drain and filter load indicator.</p> <p>52-516 -Unit includes one regulator for one (1) gun operation and comes standard with auto drain and filter load indicator.</p> <p>Replacement Cartridge: 52-551</p>


Filter / Coalescer

 <p>52-520</p> <p>52-522</p> <p>52-523</p> <p>52-525</p>	<p>The Filter / Coalescer is a two stage combination unit that offers the finest system for removal of water, dirt and oil in the industry. Due to the prefilter design this unit can be used in high contamination areas without high element replacement rates. The first stage removes particles and water while the 2nd stage removes oil contaminants. This unit is rated at 60 SCFM and removes water, dirt and oil to 0.01 micron at 98.99998% efficiency. For point of use operation.</p> <p>52-520 -Unit includes filter / coalescer only. It has 1/2" port size and comes with auto drain and filter load indicators standard.</p> <p>52-522 -Unit includes filter / coalescer with one (1) regulator and two (2) ball valves. Port sizes are 1/2" and come with auto drain and filter load indicators standard. Second ball valve is used for main line.</p> <p>52-523 -Unit includes filter / coalescer with two (2) regulators and three (3) ball valves. Third ball valve used for main line. Unit has 1/2" port sizes and comes with auto drain and filter load indicators standard.</p> <p>52-525 -Unit includes 2nd stage coalescer 1/2" port sizes and comes standard with auto drain and filter load indicator.</p> <p>Replacement Cartridge: 52-552 (first stage) 52-553 (second stage)</p>
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Main Line Combo

 <p>52-535</p>	<p>52-535 -Combo unit is designed to remove bulk oil, dirt and water to 0.01 microns. Unit combines first stage separator and second stage coalescer. Perfect for removing contaminants to extend life of down stream units. Second stage comes with filter load indicator while auto drains are standard on both units. Rated at 90 SCFM and has 3/4" ports.</p> <p>Replacement Cartridge: 52-557 (first stage) 52-558 (second stage)</p>
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Filter / Dryer

 <p>52-531</p>	<p>52-531 - This unit is a point of use two (2) stage oil water extractor with a desiccant drying cartridge for one (1) gun painting operations where dry clean air is critical such as automobile or fine wood finishing. Desiccant unit has an indicator to show when unit is saturated and needs replacement. Unit comes with ball valve at inlet and regulator for one (1) gun regulation. This is what all fine finishers should have. Maximum flow is 25 SCFM and rated to one (1) micron.</p> <p>Replacement Cartridge: 52-554 (first stage) 52-555 (second stage)</p>
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