



**"A leading worldwide supplier of high efficiency filters for a variety of industries and applications."**

## TROUBLESHOOTING GUIDE

THE ISSUE	PROBABLE CAUSE	SOLUTION
Initial pressure drop too high.	<p style="text-align: center;">Housing is undersized.</p> <p style="text-align: center;">Too fine of a filter grade chosen Packing material not removed from filter</p> <p style="text-align: center;">Too much oil/water from compressor.</p>	<p style="text-align: center;">Install larger filter housing</p> <p style="text-align: center;">Install coarser filter element. Remove packing material.</p> <p style="text-align: center;">Pre-coalesce with Grade 70C – oversize housing.</p>
Extremely short element life. Filter element quickly plugs.	<p style="text-align: center;">Large amount of particulate in system.</p> <p style="text-align: center;">Element is "blinded- off" by viscous material; A combination of oil and fine particulate.</p> <p style="text-align: center;">Excessive lubricants present on element caused by either extreme lubricant viscosity or very high inlet aerosol level.</p> <p style="text-align: center;">Oil/water emulsion forming on element.</p> <p style="text-align: center;">Too low of an environment temperature. Ice forming inside housing.</p>	<p style="text-align: center;">Utilize a pre-filter, baffle (catch pot) or pleated element to capture large particulate.</p> <p style="text-align: center;">Utilize coarser element and/or baffle (catch pot) housing.</p> <p style="text-align: center;">Pre-filter with Grade 70C or 70CS and oversize filter housing.</p> <p style="text-align: center;">Remove water by drip leg, after cooler. Install mechanical separator.</p> <p style="text-align: center;">Increase temperature. Install heater.</p>
Fast loop housing plugging quickly.	<p style="text-align: center;">Element micron size is too large. (Yes, too large)</p> <p style="text-align: center;">Too large of a filter assembly installed for application flow rate.</p>	<p style="text-align: center;">Install a tighter element, too flush the element clean. <a href="#">See Fast Loop Sheet.</a></p> <p style="text-align: center;">Install smaller Fast Loop assembly.</p>
Membrane plugging	<p style="text-align: center;">Large amount of particulate in system.</p> <p style="text-align: center;">Flow rate too high.</p>	<p style="text-align: center;">Utilize a pre-filter, baffle (catch pot) or pleated element to capture large particulate.</p> <p style="text-align: center;">Go to larger membrane or use 30K/30C coalescing filter assembly.</p>

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THE ISSUE	PROBABLE CAUSE	SOLUTION
<p>Oil/Water/Liquids present down-stream of filter</p>	<p>Bowl not properly drained of waste liquids.</p> <p>No element in housing.</p> <p>Element not sealing.</p> <p>Filter piped backwards.</p> <p>Foreign material in filter housing/packing material.</p> <p>Contaminated air entering system from second source downstream.</p> <p>Oil vapors condensing downstream.</p> <p>Excessive oil /water at inlet.</p> <p>Element damaged, chemically attacked.</p> <p>Oil present in pre-contaminated down-stream piping.</p> <p>Excessive flow surges.</p> <p>Temperature of system too high.</p> <p>Float drain plugged.</p>	<p>Drain regularly, use auto drain.</p> <p>Install Element.</p> <p>Tighten element, or replace.</p> <p>See <a href="#">Installation Guide</a>. Inlet for coalescing is deep port or port marked #2.</p> <p>Remove material.</p> <p>Change pipe or relocate filter.</p> <p>Install an adsorber CC type element. Cool system temperature so not to create vapor.</p> <p>Pre-coalesce with Grade 70C or 70CS and possibly oversize.</p> <p>Consult United Filtration directly at 1-800-311-5561.</p> <p>Change piping.</p> <p>Relocate filter Install 70C / 70CS.</p> <p>System needs to be ambient temperature coalescer.</p> <p>Wash out float drain.</p>
<p>Float drain problems</p>	<p>Housing not mounted properly.</p> <p>Float drain does not seal.</p> <p>In vacuum systems.</p> <p>Float drain plugged.</p>	<p>Mount vertically.</p> <p>Float drain requires 10 psig to operate properly.</p> <p>Cannot be used in Vacuum systems. Remove float drain, install manual drain.</p> <p>Wash out float drain.</p>