

| Element Type | Description | CAGI, PNEUROP & ISO Performance data | Where Used |
|--|---|--|--|
| Ultra High Efficiency Oil Removal Element | <p><u>Grade A</u></p> <p>Ultra fine coalescer for oil free air for critical applications:</p> <ul style="list-style-type: none"> Where air contacts product Conveying Agitating Electronics manufacturing Nitrogen Replacement | <p>Removes: Solids & liquids 0.01 micron & larger 99.999+% of oil, aerosols; remaining oil content 0.0008ppm w/w</p> <p>ISO 8573.1 Quality Class – Solids: Class 1</p> <p>Oil Content: Class 1 Maximum inlet liquid load: 100 ppm w/w</p> | <p>Upstream of desiccant or membrane dryers: Use a Grade 7 as a prefilter if heavy liquid loads are present.</p> <p>Downstream of refrigerated dryers.</p> |
| High Efficiency Oil Removal Element | <p><u>Grade B</u></p> <p>Fine coalescer for oil free air for industrial use:</p> <ul style="list-style-type: none"> Painting Injection molding Instruments Control valves | <p>Removes: Solids & liquids 0.008 micron & larger 99.99+% of oil aerosols; remaining oil content 0.01 ppm w/w</p> <p>ISO 8573.1 Quality Class – Solids: Class 1</p> <p>Oil Content: Class 2 Maximum inlet liquid load: 1000 ppm w/w</p> | <p>Upstream of desiccant or membrane dryers.</p> <p>Downstream of refrigerated dryers.</p> <p>Downstream of pressure-swing desiccant dryers for fine Particulate removal.</p> <p>At point-of-use (may be used if liquid load is present)</p> |
| Air Line Element | <p><u>Grade C</u></p> <p>General purpose 1 micron coalescer for shop air operating:</p> <ul style="list-style-type: none"> Tools Motors Cylinders | <p>Removes: Solids & liquids 1 micron & larger; remaining oil content 1 ppm w/w</p> <p>ISO 8573.1 Quality Class – Solids: Class 2</p> <p>Oil Content: Class 4 Maximum inlet liquid load: 2000 ppm w/w</p> | <p>Upstream of ultra high-efficiency oil removal filters</p> <p>At point-of-use if aftercooler/separator installed upstream</p> |
| Separator / Element | <p><u>Grade D</u></p> <p>Mechanical separator & 3 micron coalescer removes :</p> <ul style="list-style-type: none"> Liquid Large Particles | <p>Removes: Solids & liquids 3 micron & larger; remaining oil content 5 ppm w/w</p> <p>ISO 8573.1 Quality Class – Solids: Class 3</p> <p>Oil Content: Class 5 Maximum inlet liquid load: 25,000 ppm w/w</p> | <p>At point-of-use if no aftercooler/separator used upstream</p> |
| Water Separator Element | <p><u>Grade E</u></p> <p>Bulk liquid separator</p> <ul style="list-style-type: none"> Bulk Liquid | <p>Removes: Solids & liquids 10 microns & larger; Maximum inlet liquid load: 30,000 ppm w/w</p> | <p>Downstream of aftercoolers</p> |
| Dry Particulate Element | <p><u>Grade Y</u></p> <p>Dry Solids removal</p> <ul style="list-style-type: none"> Pipeline protection from abrasive desiccant dust | <p>Removes: Solids 1 micron & larger;</p> <p>No liquid should be present at filter inlet.</p> | <p>Downstream of pressure-swing (heatless) desiccant dryers</p> |
| Oil Vapour Removal Element | <p><u>Grade Z</u></p> <p>Activated carbon filter for odor free air for:</p> <ul style="list-style-type: none"> Food & drug manufacturing Breathing air Gas processing | <p>Removes: Oil vapor: remaining oil content 0.003 ppm w/w (as a vapor), Solids 0.01 micron & larger</p> <p>ISO 8573.1 Quality Class – Solids Class 1</p> <p>Oil Content: Class 1</p> <p>No liquid should be present at filter inlet – use a high efficiency oil removal filter upstream of Grade Z to prevent liquid oil combination.</p> | <p>Downstream of high efficiency oil removal filters</p> |
| High Temperature Dry Particulate | <p><u>DTA Series</u></p> <p>High temperature dry particulate after filter</p> | <p>Removes: Solids 1 micron & larger</p> <p>No liquid should be present at filter inlet.</p> | <p>Downstream of heat reactivated desiccant dryers</p> |