



COALESCING FILTER INSTRUCTION SHEET
COALESCING (.03 or .01 micron)
 ATD-7785, 7833, 7834, 7835, 7836,
 ATD-7867, 7883, 7884, 7885

| Bowl | Max. Pressure | Temperature Range |
|--------------|-------------------|-------------------|
| Metal | 250 psi | 40°F to 200°F |
| w/Sight | 250 psi | 40°F to 160°F |
| w/Auto Drain | 30 psi to 175 psi | 40°F to 120°F |

WARNING! For compressed air service only. Not to be used on life support systems or breathing air systems. Metal bowl sight is made of polycarbonate, which will craze and crack if exposed to chemical incompatible with polycarbonate. For any additional information regarding chemical compatibility please contact: General Electric Plastics, One Plastic Avenue, Pittsfield, MA..

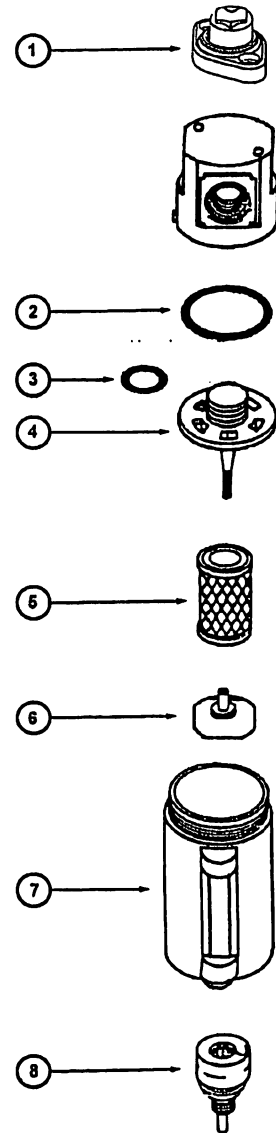
INSTALLATION: Install units so the air flow is in the direction as indicated on the head of the unit. Filter should be installed upstream of regulators. If an air dryer is being used, install the filter downstream from the dryer. In most cases a particulate pre-filter with a 3 micron absolute element is recommended to greatly extend the life of the coalescer element. When the coalescer element becomes clogged with dirt, it must be replaced. If it is kept free from dirt, it will coalesce oil indefinitely. A pre-filter will remove water and dirt before it reaches the coalescer, and will reduce maintenance costs. The coalescer filter is then free to remove oil, oil vapors, and submicron sized particles without prematurely clogging with large particles of dirt and scale.

WARNING! Units are die cast aluminum, do not torque while installing. Also, pressurize unit slowly after installation of unit or new element to avoid damage to element.

OPERATION ADJUSTMENTS: If the filter is installed properly, it should give long trouble-free service. The pressure drop across the filter should not exceed 10 psi. If the pressure drop exceeds 10 psi, either the filter element needs to be replaced or the unit is being operated beyond its capacity and a larger size unit is required. Operating the filter at a pressure drop in excess of 10 psi will greatly reduce the efficiency of the filter.

If oil appears downstream: 1) check downstream air lines to be sure that they are free of residual oil; 2) check to see that the filter element and O-ring are in good condition and installed properly.

DIFFERENTIAL PRESSURE INDICATOR MAINTENANCE (#1 on drawing): When the filter is depressurized, periodically clean and grease the piston O-ring with a non-silicon ring grease (see item 1 in drawing).



| Item | Description | Kit Part Number | Contents |
|--------------|------------------------------------|-----------------|---|
| 1 | Indicator Sight Kit | DPK-05 | Screws, Sightglass, Spring Bracket, O-Ring Inner & Outer Cylinders, Sight Dome |
| 2, 7 | Bowl Kit | BKF45M (6 oz.) | Metal Bowl w/Drain Cock, O-Ring |
| | | BKF45W (6 OZ.) | Metal Bowl w/Sight, Drain Cock, O-Ring |
| 3, 4, 6 | Repair Kit | RKF45 | Retainer, O-Ring, Baffle |
| 5 | Element Kit | EK55 | .03 Micron Coalescing Element |
| | | EK55A | .01 Micron Coalescing Element (STD) |
| 7 | Auto Float Drain Kit (optional) | 5200 | Float Drain Assembly, Bowl Insert, O-Ring, Retaining Ring |
| Not Shown | Sight Kit (replacement only) | WK47 | Indicator Ball, Sight Tube, Retainer, O-Ring |

NOTE: Optional Automatic Float Drain is used for pressure from 30 psi to 175 psi, and from 40°F to 120°F



Desiccant Dryer Instruction Sheet

P/N ATD-7761, ATD-7762, ATD-7763,
ATD-7888, & ATD-7889

Bowl
Metal w/Sight

Max. Pressure
250 psi

Temperature Range
40°F to 160°F

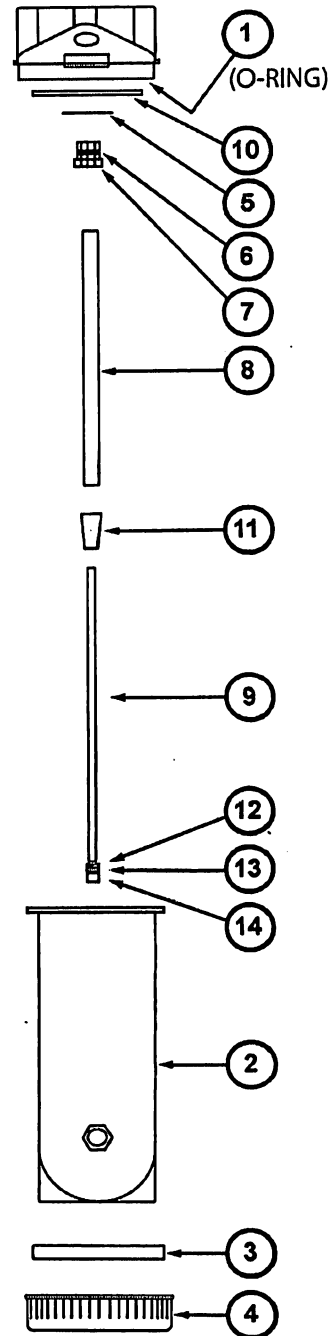
WARNING! For compressed air service only. Do not use on life support systems or breathing air systems. Metal bowl sight is made of polycarbonate resin that will crack if exposed to solvents or oils containing ethyl acetate, methylenedichlorobenzene or any partially halogenated or aromatic hydrocarbons. For any additional information regarding chemical compatibility please contact: General Electric Plastics, One Plastic Avenue, Pittsfield, MA..

INSTALLATION: Install dryer so that air flow is in the direction indicated by the arrow on the head of the unit. A prefilter combination is always required upstream of the dryer. First stage filtration with a particulate filter will remove water and solid particles down to 40 microns in size. Second stage filtrations with an coalescing filter will remove oil and water particles down to 0.03 microns.

NOTE: Used desiccant material be regenerated by spreading the desiccant in a thin layer in a shallow pan and then heating it in a convection oven at 275°F until a complete color change occurs, usually within about 3 hours. Caution - avoid excessive temperatures.

MAINTENANCE AND OPERATION: Care must be taken to change or regenerate the dryer desiccant material once it appears pink in color. The following steps are to be taken when recharging the dryer: 1) Shut off air supply and bleed system. 2) Unscrew bowl ring and remove bowl assembly. 3) Remove used desiccant. 4) Unscrew lead-in bullet from threaded rod. 5) Remove exhaust tube, exhaust element and gasket. 6) Inspect and clean inside of exhaust tube if necessary and then reassemble the main assembly. 7) Remove sight retainer and sight o-ring. 8) Discard used desiccant within the sight body. 9) Fill sight body with new or regenerated desiccant. 10) Secure sight and o-ring by hand-tightening sight dome retainer. 11) Fill bowl with new or regenerated desiccant to 1/2" from top bowl flange. Replace bowl assembly and hand-tighten bowl ring. **CAUTION:** Do not remove sight retainer while bowl is under pressure.

STORAGE: Store replacement desiccant in a dry area making certain that the jar is tightly sealed with a shelf life noted.



| | | Part Number | | | Quantity |
|-----------|-------------|-------------|-----------|---------|---|
| 1, 2, | Bowl Kit | BKD1204 | BDK1204XL | BKD1206 | Bowl O-Ring, Bowl Assembly w/Sight |
| 3, 4 | | | | | Bowl Adapter, Bowl Ring |
| 5, 6, 7, | Repair Kit | RKD1204 | RKD1204XL | RKD1208 | Ext. Retaining E-Ring, Lead-in O-Ring, |
| 8, 9, 13, | | | | | Lead-in Bullet, Exhaust Tube, |
| 14 | | | | | Threaded Rod, Drain Plug Adapter O-Ring |
| 10, 11, | Element Kit | EKD1204 | EKD1204XL | EKD1206 | Dispersion Filter, Exhaust Element Gasket |
| 12 | | | | | |
| Not Shown | Sight Kit | SKD10 | SKD10 | SKD10 | Sight Body, O-Rings, Retaining Nut, Sight Dome, Dome Retainer |

NOTE: To prevent excessive pressure drop, it is recommended that the exhaust element be replaced whenever the desiccant is replaced or recharged.