Installation & Maintenance Instructions

F72C Oil Removal Filter

**WARNING**
These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under Technical Data. Polycarbonate plastic bowls can be damaged and possibly burst if exposed to such substances as certain solvents, strong alkalies, compressor oils containing ester-based additives or synthetic oils. Fumes of these substances in contact with the polycarbonate bowl, externally or internally, can also result in damage. Clean with warm water only. Use metal bowl in applications where a plastic bowl might be exposed to substances that are incompatible with polycarbonate.

Before using these products with fluids other than air, for nonindustrial applications, or for life-support systems consult Norgren.

**CAUTION**
Water and oil vapors will pass through these units and could condense into liquid form downstream as air temperature drops. Install an air dryer if water and oil vapors could have a detrimental effect on the application.

**TECHNICAL DATA**
Fluid: Compressed air
Maximum pressure: 8 bar (116 psig)
Operating temperature:
- Metal bowl: 17 bar (250 psig)
- Transparent bowl: 6 bar (87 psig)
Air quality: Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

**DISASSEMBLY**
1. Open manual drain to expel accumulated liquids. Keep liquids below element (52).
2. Replace filter element when pressure drop across element exceeds 0.7 bar (10 psig). The mechanical service indicator shows approximately full red and the optional electrical service indicator provides an electrical output when pressure drop across element reaches of 0.7 bar (10 psig).

**CLEANING**
1. Element (52) cannot be cleaned. Clean plastic bowl (29, 38) and lens (3, 45) with warm water only. Do not submerge electrical service indicator (7) in water. Clean element (7) with dry, clean cloth. Clean other parts with warm water and soap.
2. Rinse and dry parts. Blow out internal passages in body (6) with clean, dry compressed air.
3. Inspect parts. Replace those found to be damaged.

**ASSEMBLY**
1. Lubricate o-rings, the portion of the manual drain body (18, 31, 40) that contacts the bowl, and the hole in the manual drain body that accommodates the stem of drain valve (19, 32, 41) with o-ring grease.
2. Assemble filter shown on the exploded view.
3. Arrows on indicator (3, 9) and body (6) must point in same direction. Push bowl, or bowl with guard, into body and turn fully clockwise.

**INSTALLATION**
1. Shut-off air pressure. Install filter in air line -
   - vertically (bowl down).
   - with air flow in direction of arrow on body.
   - upstream of regulators, lubricators, and cycling valves,
   - as close as possible to the air supply when used as a main line filter.
   - as close as possible to the device being serviced when used as a final filter.

**SERVICE**
1. Manual drain connection: 1/8" Stainless steel pipe thread
   - Manual operation: Depress pin inside drain outlet to drain bowl
   - Minimum air flow required to close drain: 0.1 dm/s (0.45 scfm)
   - Bowl pressure required to open drain: Less than 0.1 bar
   - Bowl pressure required to close drain: Greater than 0.3 bar

**Primary contacts**
- Manual drain: 1/8" Stainless steel pipe thread
- Automatic drain: 8 bar (116 psig)
- Mechanical service indicator (1)..............................5797-50
- Electric service indicator.................................4020-51R
- Coalescing element (4/98)..............................................4380-500
- Element (32).................................................................2145-000
- Drain (10) with o-ring..............................................4380-000
- Filter element (52)..............................................4380-500
- Manual drain (18,19,20)..............................................619-50
- Semi-autot (31,22,22)..............................................537-90
- Auto drain (24,25,26)..............................................4000-500R
- Mechanical service indicator (1).................................5797-50
- Electrical service indicator (7).................................4020-51R
- O-ring: Buna-N (50)....................................................4000-000R
- Polycarbonate bowl...................................................4380-000R
- Stainless steel bowl...................................................4380-000R
- Zinc bowl.................................................................4380-000R
- Long bowl: 65 ml (2.2 fluid ounce)
- Short bowl: 56 ml (1.9 fluid ounce)
- Manual drain connection: 1/8"
- Automatic drain connection: (8)
- Body: Zinc
- Elastomers: Neoprene and nitrile
- Mechanical service indicator: Nitrile
- Spring: Stainless steel
- Element (32): Polycarbonate
- Transparent bowl: -20° to +50°C (-4° to +122°F)
- Metal bowl: 17 bar (250 psig)
- Semi automatic drain: Push on 8mm (5/16") ID
- Manual drain: 1/8" Stainless steel pipe thread

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