

OIL-X Coalescing / Dry Particulate / Oil Vapour Reduction Filters (Carbon Steel)

Filtration Performance

| Filtration Grade | Filter Type | Particle Reduction (inc water & oil aerosols) | Max. Remaining Oil Content at 21°C (70°F) | Filtration Efficiency | Initial Dry Differential Pressure | Initial Saturated Differential Pressure | Change Element Every | Precede with Filtration Grade |
|------------------|------------------------------|---|---|-----------------------|-----------------------------------|---|-----------------------------|-------------------------------|
| AO | Coalescing & Dry Particulate | Down to 1 micron | 0.5 mg/m ³ 0.5 ppm(w) | 99.925% | <70 mbar (1 psi) | <125 mbar (1.8 psi) | 12 months | WS (for bulk liquid) |
| AA | Coalescing & Dry Particulate | Down to 0.01 micron | 0.01 mg/m ³ 0.01 ppm(w) | 99.9999% | <70 mbar (1 psi) | <125 mbar (1.8 psi) | 12 months | AO |
| ACS | Oil Vapour Reduction | N/A | 0.003 mg/m ³ 0.003 ppm(w) | N/A | <140 mbar (2 psi) | N/A | When oil vapour is detected | AO+AA |

Important Note:

Using the same filter housings as their coalescing and dry particulate counterparts in the OIL-X range, Grade ACS filter elements differ in that they utilise a deep wrapped bed of carbon cloth to adsorb oil vapour.

It is important to note, in-line adsorption filter elements have a different life span compared to coalescing and dry particulate filters and require more frequent element changes. Should a 12 month service period be required, Parker OIL-X Grade OVR oil vapour reduction filters are recommended.

Technical Data

| Filtration Grade | Filter Models | Minimum Operating Pressure | | Maximum Operating Pressure | | Minimum Operating Temperature | | Maximum Operating Temperature | |
|------------------|------------------------------|----------------------------|-------|----------------------------|-------|-------------------------------|----|-------------------------------|-----|
| | | bar g | psi g | bar g | psi g | °C | °F | °C | °F |
| AO/AA | 065 - 095 (Electronic Drain) | 1 | 15 | 16 | 232 | 2 | 35 | 60 | 140 |
| | 065 - 095 (Manual Drain) | 1 | 15 | 16 | 232 | 2 | 35 | 100 | 212 |
| ACS | 065 - 095 (Manual Drain) | 1 | 15 | 16 | 232 | 2 | 35 | 50 | 122 |

Flow Rates

| Model | Pipe Size | L/S | m ³ /min | m ³ /hr | cfm | Replacement Element | No. |
|---|-----------|------|---------------------|--------------------|-------|---------------------|-----|
| Grade 065ND <input type="checkbox"/> X | DN80 | 620 | 37.2 | 2232 | 1312 | Grade | 1 |
| Grade 070OD <input type="checkbox"/> X | DN100 | 1240 | 74.4 | 4464 | 2625 | Grade | 2 |
| Grade 075PD <input type="checkbox"/> X | DN150 | 1860 | 111.6 | 6696 | 3938 | Grade | 3 |
| Grade 080PD <input type="checkbox"/> X | DN150 | 2480 | 148.8 | 8928 | 5251 | Grade | 4 |
| Grade 085QD <input type="checkbox"/> X | DN200 | 3720 | 223.2 | 13392 | 7877 | Grade | 6 |
| Grade 090RD <input type="checkbox"/> X | DN250 | 6200 | 372 | 22320 | 13129 | Grade | 10 |
| Grade 095SD <input type="checkbox"/> X | DN300 | 8680 | 520.8 | 31248 | 18380 | Grade | 14 |

Filter Coding Example

| Grade | Model | Pipe Size | Thread | Drain Option | Incident Monitor Option |
|---------------------|--|--------------------------|----------------|------------------------------|---------------------------|
| AO AA ACS | 3 digit code denotes filter housing size | Letter denotes pipe size | D = Din Flange | E = Electronic M = Manual | I = Indicator X = None |
| Example code | | | | | |
| AO | 090 | P | D | E | X |

= Replace with drain type - E (electronic) or M (manual)

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures, apply the correction factors shown below.

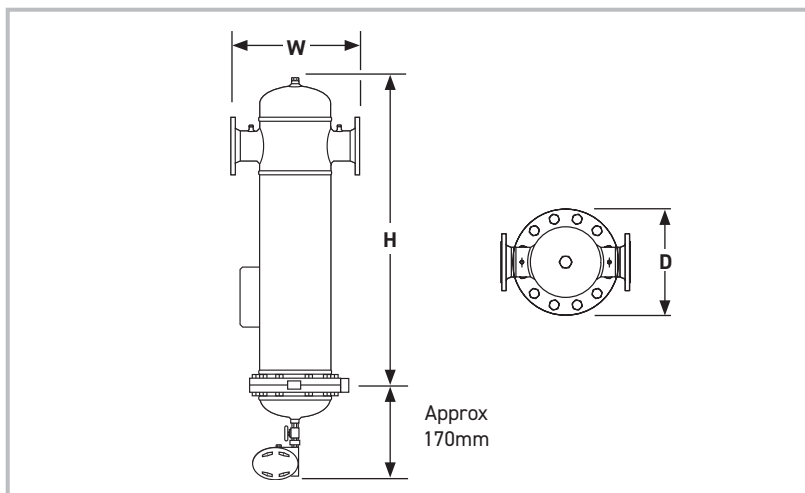
Product Selection & Correction Factors

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating (inlet) pressure at the point of installation.

- Obtain the minimum operating (inlet) pressure and maximum compressed air flow rate at the inlet of the filter.
- Select the correction factor for minimum inlet pressure from the CFMIP table (always round down e.g. for 5.3 bar, use 5 bar correction factor)
- Calculate the minimum filtration capacity. Minimum Filtration Capacity = Compressed Air Flow Rate x CFMIP
- Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity).

CFMIP - Correction Factor Minimum Inlet Pressure

| Minimum Inlet Pressure | bar g | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | psi g | 15 | 29 | 44 | 58 | 73 | 87 | 100 | 116 | 131 | 145 | 160 | 174 | 189 | 203 | 218 | 232 |
| Correction Factor | | 2.65 | 1.87 | 1.53 | 1.32 | 1.18 | 1.08 | 1.00 | 0.94 | 0.88 | 0.84 | 0.80 | 0.76 | 0.73 | 0.71 | 0.68 | 0.66 |



Weight & Dimensions

| Model | Height (H) | | Width (W) | | Depth (D) | | Weight | |
|-------|------------|------|-----------|------|-----------|------|--------|------|
| | mm | ins | mm | ins | mm | ins | kg | lbs |
| 065ND | 1065 | 42 | 440 | 17.3 | 340 | 13.4 | 70 | 154 |
| 070OD | 1152 | 45.4 | 500 | 19.7 | 405 | 16 | 97 | 214 |
| 075PD | 1256 | 49.5 | 600 | 23.6 | 520 | 20.5 | 148 | 326 |
| 080PD | 1332 | 52.4 | 650 | 25.6 | 580 | 22.8 | 187 | 412 |
| 085QD | 1415 | 55.7 | 750 | 29.5 | 640 | 25.2 | 240 | 529 |
| 090RD | 1603 | 63.1 | 1000 | 39.4 | 840 | 33 | 470 | 1036 |
| 095SD | 1706 | 67.2 | 1050 | 41.3 | 910 | 35.8 | 580 | 1279 |

Parker Catalogue Numbers (No DPI)

| Model | Catalogue Number General Purpose Coalescing Filters | Catalogue Number General Purpose Dry Particulate Filters | Catalogue Number High Efficiency Coalescing Filters | Catalogue Number High Efficiency Dry Particulate Filters | Catalogue Number Oil Vapour Reduction Filters |
|-------|---|--|---|--|---|
| 065N | AO065NDEX | AO065NDMX | AA065NDEX | AA065NDMX | ACS065NDMX |
| 070O | AO070ODEX | AO070ODMX | AA070ODEX | AA070ODMX | ACS070ODMX |
| 075P | AO075PDEX | AO075PDMX | AA075PDEX | AA075PDMX | ACS075PDMX |
| 080P | AO080PDEX | AO080PDMX | AA080PDEX | AA080PDMX | ACS080PDMX |
| 085Q | AO085QDEX | AO085QDMX | AA085QDEX | AA085QDMX | ACS085QDMX |
| 090P | AO090RDEX | AO090RDMX | AA090RDEX | AA090RDMX | ACS090RDMX |
| 095S | AO095SDEX | AO095SDMX | AA095SDEX | AA095SDMX | ACS095SDMX |

Parker Catalogue Numbers (With DPI)

| Model | Catalogue Number General Purpose Coalescing Filters | Catalogue Number General Purpose Dry Particulate Filters | Catalogue Number High Efficiency Coalescing Filters | Catalogue Number High Efficiency Dry Particulate Filters |
|-------|---|--|---|--|
| 065N | AO065NDEI | AO065NDMI | AA065NDEI | AA065NDMI |
| 070O | AO070ODEI | AO070ODMI | AA070ODEI | AA070ODMI |
| 075P | AO075PDEI | AO075PDMI | AA075PDEI | AA075PDMI |
| 080P | AO080PDEI | AO080PDMI | AA080PDEI | AA080PDMI |
| 085Q | AO085QDEI | AO085QDMI | AA085QDEI | AA085QDMI |
| 090P | AO090RDEI | AO090RDMI | AA090RDEI | AA090RDMI |
| 095S | AO095SDEI | AO095SDMI | AA095SDEI | AA095SDMI |



FILCO® spol. s r.o.
Dvorská 464/103
CZ-503 11 Hradec Králové
tel.: +420 495 436 233
info@filco.cz,
www.filco.cz

Váš lokální distributor Parker