The ultimate filtration & drying technology

# Alloy High Pressure Filters


**A unique range of 20 and 50 barg high pressure filters with 22 models offering connections from ¼" to 3" and capacities up to 4383 Nm³/hr (2580 SCFM).**

This unique high pressure range offers excellent value for money whilst still delivering exceptional filtration.

The range comprises of three different housing types all manufactured using high quality diecast aluminium.


## Value without compromise

Full corrosion protection on all housings is given by use of a electrophoretic painting both inside and out followed by a tough polyester powder coating on the outside.

All models include the Walker push-fit filter element design with double O-ring seals for extra security and are available in all standard grades.

## Custom engineered filter media delivers exceptional filtration with minimal pressure drop

Quality control of these CE marked products includes a hydrostatic test certificate and serial number for complete traceability.

**Applications include**

- Chemical
- Food & Beverage
- Manufacturing
- Military
- Oil & Gas

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2012

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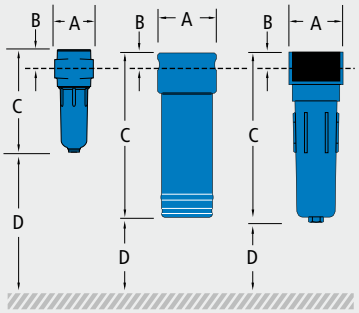
WALKER FILTRATION

# Technical Specification

| filter model | pipe size | flow rate | | dimensions (mm) | | | | weight Kg | element model |
|---|---|---|---|---|---|---|---|---|---|
| | | Nm³/h | SCFM | A | B | C | D | | |
| 20HP25 (grade) | ¼ | 59 | 35 | 72 | 35 | 184 | 75 | 0.65 | E1003 (grade) |
| 20HP37 (grade) | ⅜ | 85 | 50 | 72 | 35 | 184 | 75 | 0.65 | E1503 (grade) |
| 20HP50 (grade) | ½ | 110 | 65 | 114 | 38 | 270 | 152 | 2.0 | E2005 (grade) |
| 20HP75 (grade) | ¾ | 219 | 129 | 114 | 38 | 270 | 152 | 2.0 | E2505 (grade) |
| 20HP100 (grade) | 1 | 292 | 172 | 114 | 38 | 352 | 152 | 2.5 | E2008 (grade) |
| 20HP101 (grade) | 1 | 438 | 258 | 114 | 38 | 352 | 152 | 2.5 | E2508 (grade) |
| 20HP150 (grade) | 1½ | 658 | 387 | 146 | 51 | 490 | 165 | 5.0 | E2512 (grade) |
| 20HP151 (grade) | 1½ | 877 | 516 | 146 | 51 | 490 | 165 | 5.0 | E2712 (grade) |
| 20HP200 (grade) | 2 | 1315 | 774 | 146 | 51 | 490 | 165 | 5.0 | E3012 (grade) |
| 20HP201 (grade) | 2 | 1899 | 1118 | 146 | 51 | 685 | 165 | 6.0 | E3020 (grade) |
| 20HP300 (grade) | 3 | 2922 | 1720 | 229 | 64 | 681 | 178 | 15.0 | E5020 (grade) |
| 20HP301 (grade) | 3 | 3653 | 2150 | 229 | 64 | 810 | 178 | 15.0 | E5024 (grade) |
| 20HP302 (grade) | 3 | 4383 | 2580 | 229 | 64 | 962 | 178 | 16.0 | E5030 (grade) |
| 50HP25 (grade) | ¼ | 160 | 94 | 63 | 15 | 150 | 50 | 0.3 | HP1535 (grade) |
| 50HP37 (grade) | ⅜ | 250 | 147 | 63 | 15 | 190 | 50 | 0.3 | HP1550 (grade) |
| 50HP50 (grade) | ½ | 450 | 265 | 114 | 38 | 305 | 150 | 2.6 | HP2040 (grade) |
| 50HP75 (grade) | ¾ | 550 | 324 | 114 | 38 | 305 | 150 | 2.6 | HP2540 (grade) |
| 50HP101 (grade) | 1 | 835 | 492 | 114 | 38 | 395 | 150 | 3.3 | HP2080 (grade) |
| 50HP150 (grade) | 1½ | 1250 | 736 | 146 | 50 | 435 | 170 | 7.5 | HP2580 (grade) |
| 50HP151 (grade) | 1½ | 1725 | 1015 | 146 | 50 | 435 | 170 | 7.5 | HP2512 (grade) |
| 50HP200 (grade) | 2 | 1925 | 1132 | 146 | 50 | 435 | 170 | 7.5 | HP2512 (grade) |
| 50HP201 (grade) | 2 | 3200 | 1882 | 146 | 50 | 635 | 170 | 10.0 | HP2520 (grade) |

| Coalescing filter element grades | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Grade | X25 | | X5 | | X1 | | XA | | AC | |
| Particle removal | 25 micron | | 5 micron | | 1 micron | | 0.01 micron | | 0.01 micron | |
| Maximum oil carryover at 20°C (68°F) | 10 mg/m³ | 8.2 ppm | 5 mg/m³ | 4.1 ppm | 0.1 mg/m³ | 0.1 ppm | 0.01 mg/m³ | 0.01 ppm | 0.003 mg/m³ | 0.003 ppm |
| Maximum temperature | 120°C | 248°F | 120°C | 248°F | 120°C | 248°F | 120°C | 248°F | 50°C* | 122°F* |
| Maximum working pressure | 20 barg (300 psig) / 50 barg (725 psig) | | | | | | | | | |
| Element end cap colour | black | | | | | | | | | |

| Dust filter element grades | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Grade | RX25 | | RX5 | | RX1 | | RXA | | RAC | |
| Particle removal | 25 micron | | 5 micron | | 1 micron | | 0.01 micron | | 0.01 micron | |
| Maximum oil carryover at 20°C (68°F) | - | | - | - | - | - | - | - | 0.003 mg/m³ | 0.003 ppm |
| Maximum temperature | 120°C | 248°F | 120°C | 248°F | 120°C | 248°F | 120°C | 248°F | 50°C* | 122°F* |
| Maximum working pressure | 20 barg (300 psig) / 50 barg (725 psig) | | | | | | | | | |
| Element end cap colour | black | | | | | | | | | |




20HP25 to 20HP37 | 50HP25 to 50HP37 | 20HP50 to 20HP302 and 50HP50 to 50HP201

**technical notes**

1. The direction of air flow is inside to out through the filter element for coalescing grades and outside to in through the filter element for dust grades.
2. All alloy high pressure filters are supplied with a drain plug. High pressure drains are available.
3. Differential pressure indicators are available for 20 barg applications.
4. Activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide ($CO_2$).
5. Alloy high pressure filters and filter elements are suitable for use with mineral and synthetic oils, plus oil-free compressed air applications.
6. Threaded filters are manufactured from cast aluminium alloy and are PED 97/23/EC compliant for group 2 gases.
7. Threaded connections are Rp (BSP parallel) to ISO 7/1 or NPT to ANSI B2.1 if supplied within North America, with the following exceptions: 50HP25 and 50HP37 are Rc (BSP Taper).
8. For NPT connections, add the suffix N e.g. 20HP100X5N.
9. Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months / 1000 hours (whichever comes first).
10. Silicone free options are available, please contact Sales for details.
11. * Recommended operating temperature 25°C (77°F)

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