

BACKWASHABLE FILTERS

Multi-media Water Filtration Units



The Feedwater range of automatic backwashing filters are used to remove a wide range of dissolved and suspended contaminants from a water supply. The filter units will backwash automatically under built-in time clock control and do not need to use regenerant chemicals to operate.

Ideal for:

- * Boiler Water
- * Cooling Water
- * Drinking Water
- * Process Water
- * Effluent
- * Soft Drinks Production

The following range of units is available as standard:

MM Series - for removal of turbidity and suspended solids

Layered beds of filter sand and anthracite remove suspended solids down to 20-30 microns.

BI Series - for removal of iron and manganese

BIRM iron removal medium catalytically oxidises, precipitates and then filters any dissolved iron. Can also be used to remove manganese at higher pHs.

PH Series - for combatting acid water

pHLocrite pH correction media reacts with acidity in the water, not only raising the pH but also increasing the hardness. This dual action greatly reduces the corrosiveness of the water supply.

AC Series - for removal of chlorine and organic compounds

Granular activated carbon adsorbs water solubilised organics and catalytically removes chlorine. Ideal for taste and odour removal applications, or to protect chlorine-sensitive equipment such as R.O. plant.

In addition to the standard range, filters can be supplied with a wide range of specialised selective media for more unusual applications - if you've got a problem water, we've probably got a solution.

Depending on the features/components incorporated in any particular system, the manufacture of a unit may fall outside the scope of our BS5750 Part 1 accreditation.

FILTRATION

MM Series Filter Units

| Model No. | 1054M | 1248M | 1354M | 1465M | 1665M | 2160M | 2469M | 3072M | 3672M | 4278M |
|---------------------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| Connections In/Out (BSP) | 1"(F) | 1"(M) | 1"(M) | 1"(M) | 1"(M) | 1½"(F) | 2"(F) | 2"(F) | 2"(F) | 2"(F) |
| Service Flow (cu.m/hour) | 0.60 | 0.85 | 1.00 | 1.20 | 1.50 | 2.60 | 3.40 | 5.30 | 7.70 | 10.50 |
| Backwash Flow (cu.m/hour) | 1.20 | 1.70 | 2.00 | 2.40 | 3.00 | 5.20 | 6.80 | 10.60 | 15.40 | 21.00 |
| Vessel diameter (mm) | 250 | 510 | 530 | 560 | 610 | 750 | 820 | 970 | 1120 | 1270 |
| Overall height (mm) | 1330 | 1190 | 1340 | 1620 | 1640 | 1730 | 1970 | 1990 | 2050 | 2340 |

In addition to the stated dimensions, allow a minimum of 500mm headroom and 500mm either side of the unit for maintenance access.

Includes service and drain line flow controllers.

NB: Backwash flow per vessel is twice the service flow; therefore, where possible use two or more small units instead of one large one to reduce pumping requirements.

Construction: Three separate media are incorporated in each vessel - support gravel, filter sand (8/16 & 16/30) and filter anthracite grade 2.

Higher flow rates than 5 USGPM/SqFt bed can be used on an intermittent basis.

Larger systems using steel vessels and service valve controllers are available to order, p.o.a.

BI Series Filter Units

| Model No. | 1054BI | 1248BI | 1354BI | 1465BI | 1665BI | 2160BI | 2469BI | 3072BI | 3672BI | 4278BI |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Connections In/Out (BSP) | 1"(F) | 1"(M) | 1"(M) | 1"(M) | 1"(M) | 1½"(F) | 2"(F) | 2"(F) | 2"(F) | 2"(F) |
| Service Flow (cu.m/hour) | 0.60 | 0.85 | 1.00 | 1.20 | 1.50 | 2.60 | 3.40 | 5.30 | 7.70 | 10.50 |
| Backwash Flow (cu.m/hour) | 1.20 | 1.70 | 2.00 | 2.40 | 3.00 | 5.20 | 6.80 | 10.60 | 15.40 | 21.00 |
| Vessel diameter (mm) | 250 | 510 | 530 | 560 | 610 | 750 | 820 | 970 | 1120 | 1270 |
| Overall height (mm) | 1330 | 1190 | 1340 | 1620 | 1640 | 1730 | 1970 | 1990 | 2050 | 2340 |

In addition to the stated dimensions, allow a minimum of 500mm headroom and 500mm either side of the unit for maintenance access.

Includes service and drain line flow controllers.

NB: Backwash flow per vessel is twice the service flow; therefore, where possible use two or more small units instead of one large one to reduce pumping requirements.

Operating Parameters: Oxygen level = 15% of Iron level : pH range = 6.8 to 9.0 : Alkalinity = Greater than 2 x (Sulphate + Chloride) : No Hydrogen Sulphide, Oil or Polyphosphates.

Organic matter less than 5ppm : Free Chlorine less than 0.5ppm : Temperature 3 to 45 deg C (35 to 110 F).

PH Series Filter Units

| Model No. | 1054PH | 1248PH | 1354PH | 1465PH | 1665PH | 2160PH | 2469PH | 3072PH | 3672PH | 4278PH |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Connections In/Out (BSP) | 1"(F) | 1"(F) | 1"(M) | 1"(M) | 1"(M) | 1"(M) | 2"(F) | 2"(F) | 2"(F) | 2"(F) |
| Service Flow (cu.m/hour) | 0.60 | 0.85 | 1.00 | 1.20 | 1.50 | 2.60 | 3.40 | 5.30 | 7.70 | 10.50 |
| Backwash Flow (cu.m/hour) | 0.90 | 1.28 | 1.50 | 1.80 | 2.25 | 3.90 | 5.10 | 7.95 | 11.55 | 15.75 |
| Vessel diameter (mm) | 250 | 510 | 530 | 560 | 610 | 750 | 820 | 970 | 1120 | 1270 |
| Overall height (mm) | 1330 | 1190 | 1340 | 1620 | 1640 | 1730 | 1970 | 1990 | 2050 | 2340 |

In addition to the stated dimensions, allow a minimum of 500mm headroom and 500mm either side of the unit for maintenance access.

Includes service and drain line flow controllers.

NB: Backwash flow per vessel is 1.5 times the service flow; therefore, where possible use two or more small units instead of one large one to reduce pumping requirements.

Operating Parameters: Hardening - for every 10mg/l Carbon Dioxide, alkalinity and total hardness will be raised by approximately 18mg/l as Calcium Carbonate.

Consumption - for every 10mg/l Carbon Dioxide removed, there will be a consumption of approximately 12mg pHLocrite, including backwashing.

pHLocrite is a self-regulating dolomitic filter medium which raises pH, hardness and alkalinity along with reducing acidity. Composition 50% Magnacite, 50% Calcite.

AC Series Filter Units

| Model No. | 1054AC | 1248AC | 1354AC | 1465AC | 1665AC | 2160AC | 2469AC | 3072AC | 3672AC | 4278AC | 4882AC |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Connections In/Out (BSP) | 1"(F) | 1"(M) | 1"(M) | 1"(M) | 1"(M) | 1"(M) | 1"(M) | 1½"(M) | 2"(F) | 2"(F) | 2"(F) |
| Service Flow (cu.m/hour) | 0.40 | 0.50 | 0.70 | 1.00 | 1.40 | 2.25 | 3.25 | 4.50 | 7.50 | 10.00 | 12.50 |
| Backwash Flow (cu.m/hour) | 0.50 | 0.90 | 1.00 | 1.20 | 1.50 | 2.60 | 3.40 | 5.30 | 7.70 | 10.50 | 13.70 |
| Vessel diameter (mm) | 250 | 510 | 530 | 560 | 610 | 750 | 820 | 970 | 1120 | 1270 | |
| Overall height (mm) | 1330 | 1190 | 1340 | 1620 | 1640 | 1730 | 1970 | 1990 | 2050 | 2340 | |

In addition to the stated dimensions, allow a minimum of 500mm headroom and 500mm either side of the unit for maintenance access.

Includes service and drain line flow controllers.

Media: Type 207C activated carbon on support bed of gravel.

Sizing based on contact time of 6 minutes, equivalent to 10 B.V./hour.

Larger systems using steel vessels and service valve controllers are available to order, p.o.a.