



Aquashield MAX UV Pressure System

Model Numbers: ASHS60-08T, ASHM60-10T,
ASHS60-08RB, ASHM60-10RB

Applications

- Pressure boosting and disinfection of rainwater
- Large home potable water supply
- School shower and toilet blocks
- Guest house potable water supply

Benefits of Microlene's Aquashield Packaged UV Pressure System

Davey's proven 3 stage water disinfection & filtration process will ensure a safe and hygienic water supply*.

Factory matched and tested package ensures the correct UV dosage is delivered with high reliability.

Suitable for both tank only and mains water back-up installations, and for bore and surface water treatment - subject to water quality.

Pump interlock detects lamp failure and locks pump out ensuring only disinfected water is delivered.

Lamp count down timer with set limit of 9000 hours (1 year) matches lamp life and ensures only disinfected water is delivered.

Durable UV resistant cover allows for flexible, vandal resistant, exterior installation.

RainBan®k MKII controller option

- Provides seamless automatic mains water back-up and source indication
- Automatically reverts to mains water if power fails or pump is removed

Torium®2 TT70 controller option

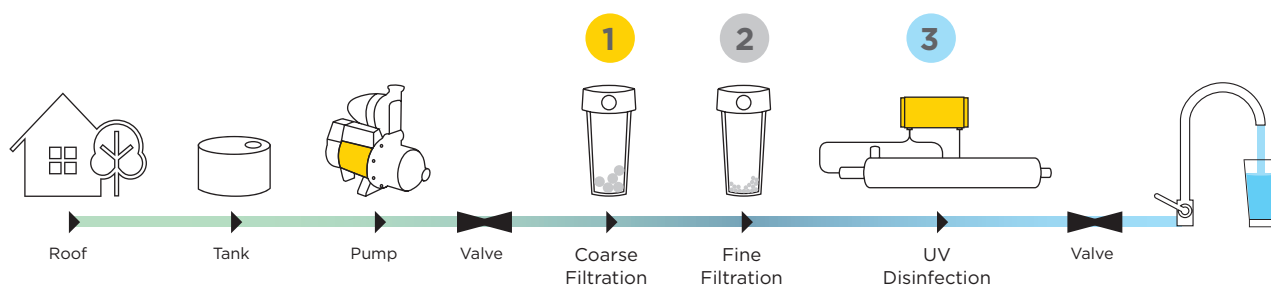
- Intelligent automatic pump control maximises pump efficiency by adjusting run on time and cut in pressures

High efficiency Steriflo UV disinfection system with low pressure lamp and test tube quartz sleeve for easy cleaning and high performance.

20 micron Filterpure pre-filtration for long cleaning intervals with dirt, rust, sediment and debris reduction.

1 micron Filterpure filtration for parasitic cyst reduction and further sediment reduction to reduce 'shadowing' of bacteria and viruses.

*Cannot treat water contaminated by metals, chemicals, algal toxins or radiation

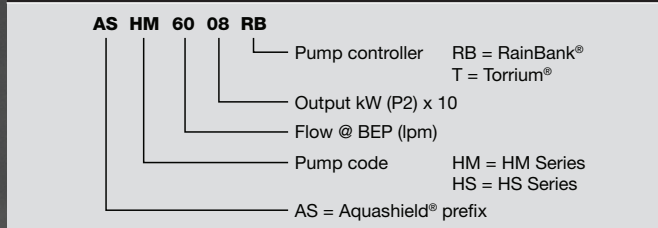


Microlene Aquashield UV System

Operating Limits

| | |
|---|--------------------|
| Capacities to | 70 lpm |
| Maximum system pressure | 700 kPa |
| Max. Mains water pressure for RB models | 850 kPa |
| Water temperature range | 8°C – 40°C |
| Maximum ambient temperature | 50°C |
| Lamp life | 9,000 hrs (1 year) |

Identification Of The System



Service Intervals**

| | | |
|------------------|------------------|-----------------------------|
| 20 micron filter | Clean Replace | 3 months up to 12 months |
| 1 micron filter | Replace | up to 12 months |
| UV lamp | Replace | 12 months |
| UV Quartz Sleeve | Clean | 3-6 months |

**Will vary depending on water quality. Check pressure drop 'Gauge Set'. Based on clean rainwater.

Replacement Parts

| Code | Description |
|------------|--------------------------|
| GPH550N2/W | Steriflo Lamp |
| TT600 | Steriflo Quartz Sleeve |
| S24X3N70 | Steriflo Oring |
| 20PP20J | 20 micron pleated filter |
| 1PS20J | 1 micron spun filter |

Identification Of The System

Use a rope to position and retrieve the pump. Do not lower or retrieve the pump using the power lead as this may damage the cable entry seals, causing water leaks and unsafe operation.

Don't use this product for recirculating or filtering swimming pools, spas, etc. While these pumps are built to high safety standards, they are not approved for installations where people will be in the water while they are operating.

Don't pump abrasive materials. Sand and grit in the water being pumped will accelerate wear, causing shortened pump life.

Keep your pump clean, particularly in situations where lint, hair or fibrous materials may get bound around the pump shaft. Regular inspection and cleaning will extend pump life.

Make room for the float switch to operate. Automatic models have a float switch to turn them on when the water level rises and turn them off again when it has been pumped down to the safe operating level of the pump. If the float switch is not free to rise and fall, correct pump operation may not be possible.

Don't run your pump dry. Non-automatic models must be switched off manually or by way of an external float/level switch when the water level is reduced to the top of the pump housing.

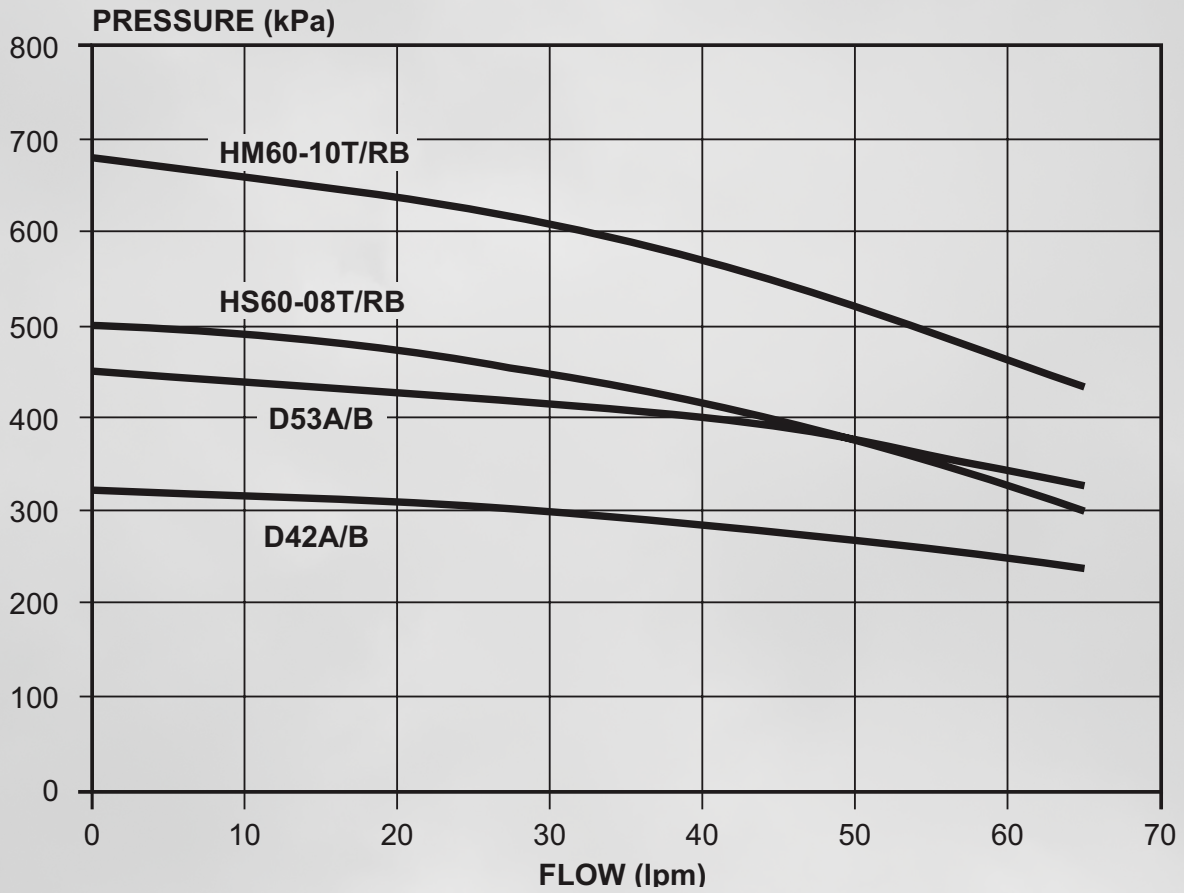
Materials Of Construction

| Part | | Material |
|--------------------------------------|----------|---|
| Housing | | |
| Cover | | Polyethylene |
| Frame | | 304 stainless steel |
| Surface pumps | | |
| Pump casing | | 304 stainless steel |
| Pump backplate | | 304 stainless steel |
| Pump stages | HM HS | 304 stainless steel Glass filled noryl |
| Pump impellers | HM HS | 304 stainless steel Glass filled polycarbonate |
| Pump shaft | HM HS | 316L stainless steel 303 stainless steel |
| Neck rings | HM HS | Teflon Polypropylene & teflon |
| Mechanical seal | | Carbon / ceramic |
| O-rings | HM HS | EPDM Nitrile rubber |
| Motor shell & lantern bracket | | Marine grade aluminium with baked polyester powder coat |
| Submersible pumps | | |
| Impeller | | Glass filled polycarbonate |
| Lock nut | | 304 stainless steel |
| Pump casing | | Glass filled polycarbonate |
| Diffuser and blanking ring | | Glass filled noryl |
| Mechanical seal - pump | | Carbon / ceramic |
| Mechanical seal - motor | | Silicon carbide / ceramic in oil bath |
| Shaft seal elastomer | | Nitrile rubber |
| Pump shaft | | 304 stainless steel |
| O-rings | | Nitrile rubber |
| Motor shell | | 304 stainless steel |
| Bottom bearing housing | | Cast 316 stainless steel |
| Upper motor cover | | Cast 316 stainless steel |
| Handle | | 304 stainless steel |
| Fasteners | | 304 stainless steel |
| Float & power supply leads | | HO7RN-F oil resistant |
| Controller - Torrium2 | | |
| Housing | | Glass reinforced nylon |
| Diaphragm | | Santoprene 87 |
| Springs | | Molybond coated tempered steel |
| Sensor plate | | 316 stainless steel |
| Inlet union | | Glass reinforced nylon |
| Orings | | Nitrile |
| Controller - RainBank | | |
| Housing | | Glass reinforced nylon |
| Diaphragm | | Santoprene 87 |
| Springs | | D.R Brass |
| Sensor plate | | 316 stainless steel |
| Filters | | |
| Filter housing | | Glass reinforced polypropylene |
| 20 micron filter | | Pleated polyester fabric |
| 1 micron filter | | Spun melt polypropylene fabric |
| Steriflo UV disinfection unit | | |
| Chamber | | 304 stainless steel |
| Lamp | | Low pressure high intensity |
| Sleeve | | Quartz |
| Pipework | | |
| Braided hose | | Silicone lined stainless steel |



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Hydraulic Performance

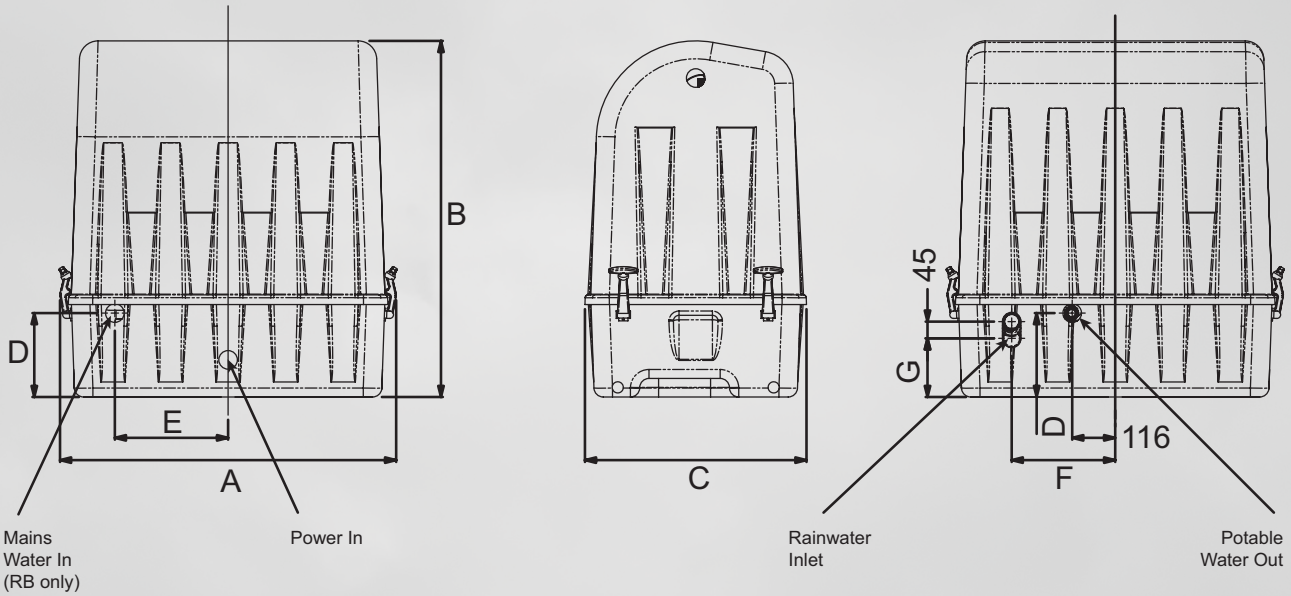


Note: Do not flow water over 70 lpm.



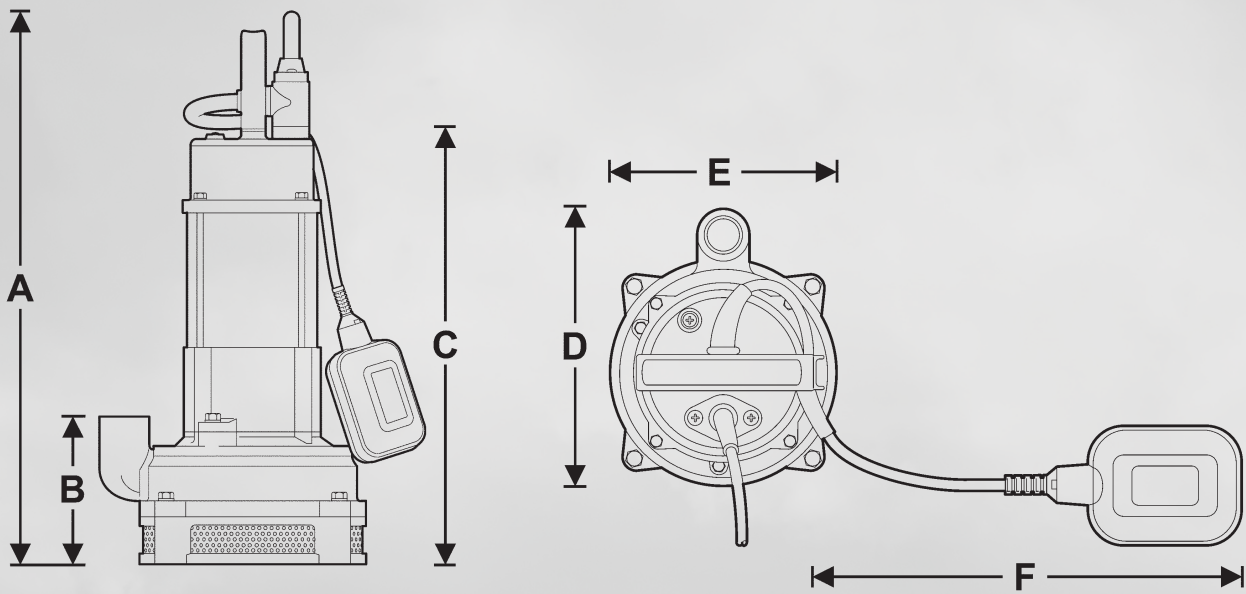
Microlene Aquashield UV System

Dimensions (mm) – Aquashield MAX



| Model | A | B | C | D | E | F | G | Inlet | Outlet | Weight (kg) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-------|--------|-------------|
| ASHS60-08T | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 |
| ASHS60-10RB | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 | 905 |

Dimensions (mm) – Submersible Pump



| Model | A | B | C | D | E | F | Outlet B.S.P. | Weight (kg) |
|--------|-----|-----|-----|-----|-----|-----|---------------|-------------|
| D45A/B | 475 | 130 | 370 | 235 | 195 | 330 | 1" F | 18.5 |
| D53A/B | 535 | 170 | 430 | 235 | 195 | 330 | 1" F | 19.5 |



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