

OVERVIEW

Our **HYDRA™** Automatic Screen Filtration System is engineered to safeguard mission-critical cooling infrastructure by delivering clean, reliable domestic water to industrial Water Storage Tanks. Designed around high-performance automatic backwash filters, the system provides continuous filtration without interrupting downstream flow; ensuring stable water quality for chillers, heat exchangers and other essential cooling equipment.

With single or dual-stage filtration, manifold complete with bypass, and fully automated differential-pressure-triggered backwashing, the system maintains optimal performance even under variable authority water conditions. Each filter operates independently, with built-in bypassing and dedicated drain connections to support seamless maintenance and long service life.

Engineered for dependability, automation, and compliance, this filtration system provides confidence that your cooling water supply remains clean, stable, and ready to support continuous uptime.

SYSTEM OVERVIEW

BASE

- Common galvanised base plate and controller stand.

MANIFOLD

- Stainless steel suction and discharge manifolds.
- Manual bypass & isolation.
- 20mm test and drain valve.
- Stainless steel liquid filled pressure gauges on suction & discharge manifolds.

FILTERS

- Automatic backwash via differential pressure and timer control.
- Efficient screen cleaning ratio of 1:1 using point rotation principle.
- No interruption to water flow during screen cleaning.
- AS 4020:2018 potable water compliant.
- Stainless steel screen that is Silver coated to inhibit bacterial growth.

CONTROLS

- BMS connections for operation, fault, and backwash status available.
- Manufactured in accordance with the relevant standards: AS3000:2007, AS1939:1990 and AS3439.1:2002.

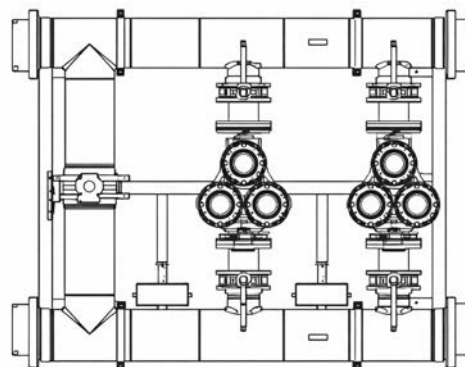
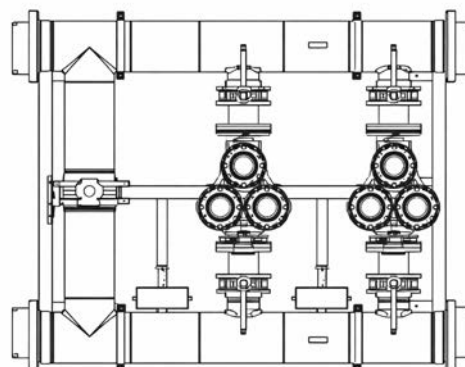
INCLUSIONS

- Delivery to site - optional crane truck.
- Factory Acceptance Testing (F.A.T) at our state-of-the-art facility.
- Onsite commissioning.
- 24/7 technical support.

FEATURES

- Eliminates suspended particles that lead to pitting, corrosion, and blockages.
- Fully automatic screen cleaning by pressure differential control.
- Uninterrupted water flow during screen cleaning.

DRAWING



TECHNICAL DATA

APPLIES TO N & N+1 ARRANGEMENTS

STANDARD RANGE*

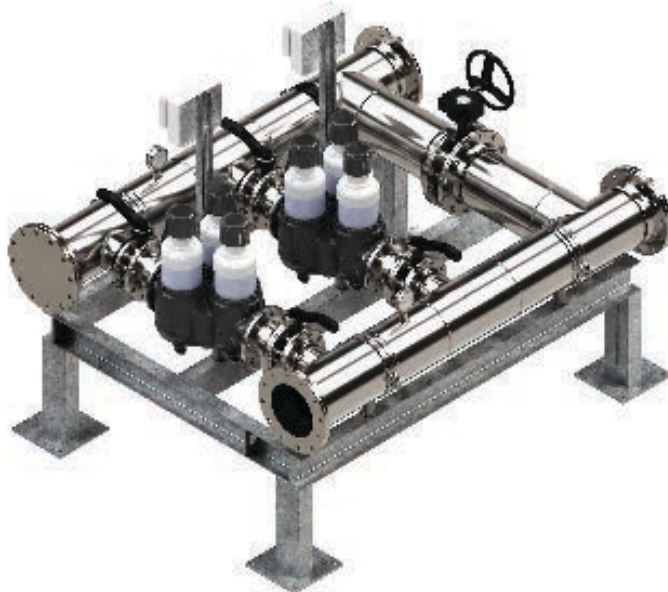
Arrangement options	N (duty or duty/duty) N+1 (duty/standby)
Filtration series	1-2 Per N System
Filtration micron	30um to 500um
Flow range	1L/s - +110L/s
Maximum head	1000kpa
Liquid temperature	0°C to +50°C
Ambient temperature	0°C to +30°C

*Note: Contact our team for increased capacities.



TYPICAL ARRANGEMENTS

SINGLE FILTRATION SERIES



DUAL FILTRATION SERIES

