

S2000



High Efficiency Filters

- No limit to flow rate
- Fully expandable, modular design
- State of art PLC control
- Turbo action for economical backwash
- 100% clean with every backwash
- All stainless steel construction
- Absolute filtration from 10 to 400 microns
- Pneumatic valve operation
- Hazardous environment option

The S2000 is an expandable filtration system made up of any number of filter pods to provide an economical solution to heavy duty filtration problems.

Developed with experience from arduous operating conditions, the S2000 offers all the benefits of zero gravity filtration in a fully automatic, adaptable and efficient filter package.

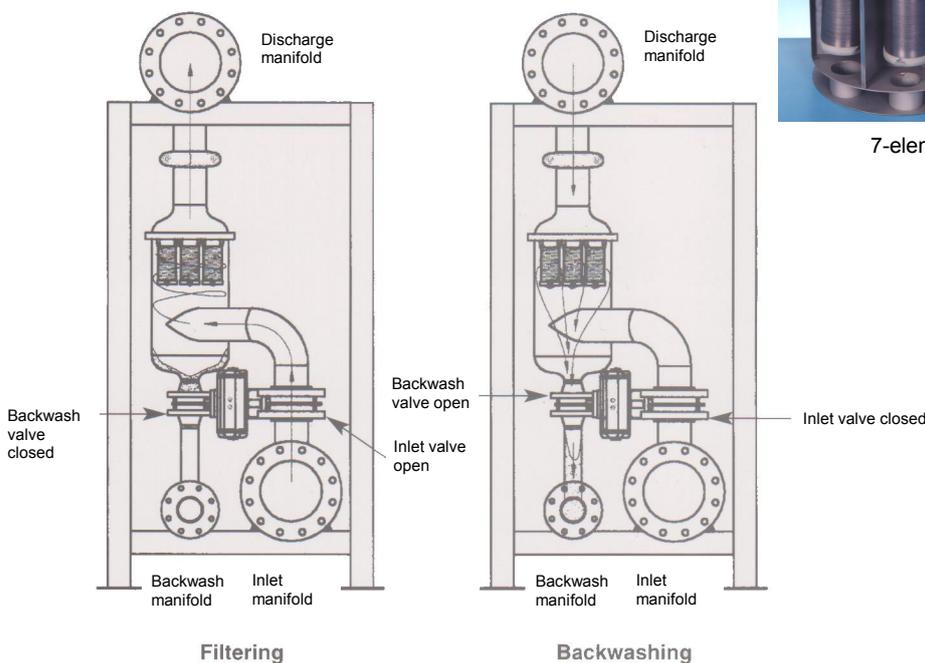
Each stainless steel pod incorporates a turbo action design and houses seven filter elements in its cage.

To meet the requirements of any large filtration project, the specified number of pods is connected between inlet and discharge manifolds to form a bank. Any number of banks can be coupled together in series or in parallel.



Typical installation of two 4-pod banks with 8" manifolds and flanged ends.

How it Works

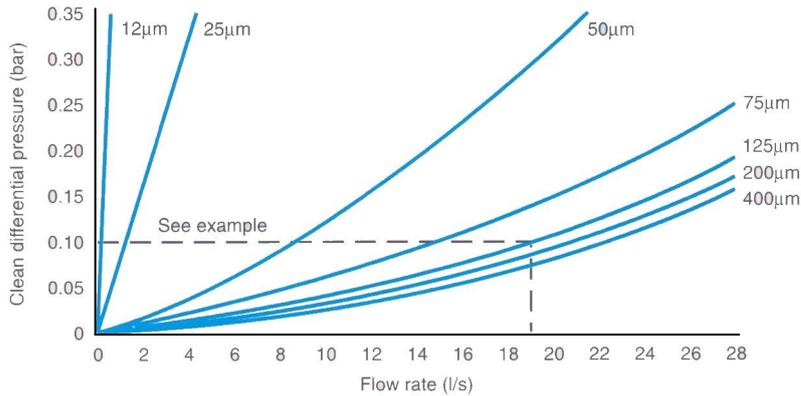


7-element cage assembly



Single pod valve and actuator assembly

S2000 - Single Pod Performance



Example: Total system flow = 190 l/s; permissible clean pressure drop = 0.1 bar. Each pod will handle 19 l/s therefore 10 pods are required.

Specification

Materials

Filter Coil	Stainless steel 304/316
Filter Cage	Plastic and/or stainless steel
Filter Body	Stainless steel 304
Frame	Stainless steel 304
Valve Assembly	Cast iron body, EPDM liner, stainless steel disc
Seals	EPDM/fluorocarbon*
Control Panel	Coated steel or GRPP

Air Supply Pressure

6 bar

Number of Elements

7 per pod

Maximum Flow Rate

Unlimited

Maximum Operating Pressure

10 bar

Maximum Operating Temperature

100°C

Backwash Controls

Automatic	Backwash duration**
	Backwash interval**
	Differential pressure set point

Connections

Inlet/outlet	Victaulic® or flanged PN16 (sized to suit flow)
Backwash	3" Victaulic® or flanged PN16
Air Line	6 or 8mm push in fitting

Electrical Supply

110/250Vac 3A (reduced to 24Vdc)

Output to BMS

Volt free contacts

* Other materials are available on request.

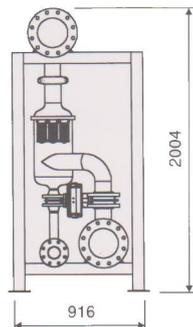
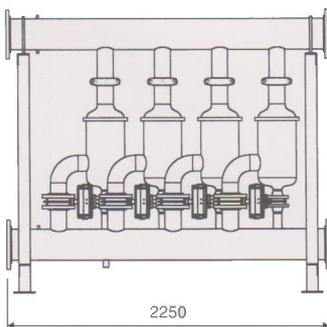
Control System Upgrades

1. Automatic bypass operation
2. Valve position feedback

**factory set, adjustable through software

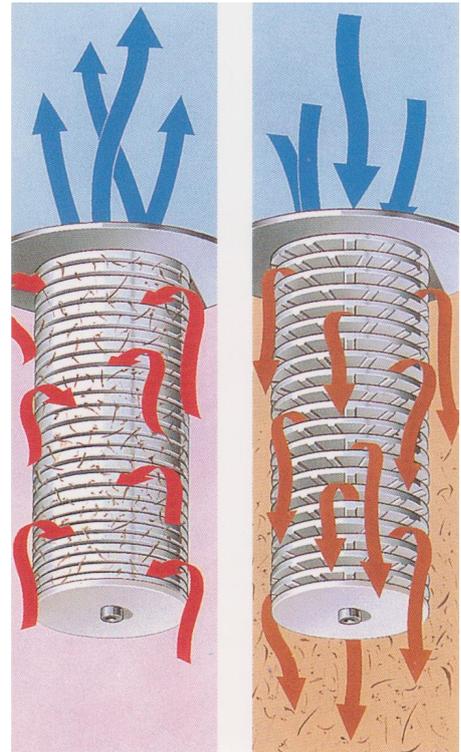
Dimensions

As the nature of the S2000 is modular, weights and dimensions vary according to customer requirement. Please call us for specific sizing information, or refer to the drawing below for weights and dimensions of a typical 4 pod, 8" flanged filter bank.



Dry weight: 322 kg
Wet weight: 631 kg

100% Cleaning with Every Backwash



Filtering

Backwashing

The zero gravity coil design enables filter elements to be completely cleaned with every backwash, minimising backwash frequency and water consumption.

Filtration Ratings

Filter elements are available in a range of sizes from 10 to 400 microns and are completely interchangeable. In some heavily contaminated systems it may be advantageous to install a set of coarse or "commissioning" elements in the early stages and then replace them with finer elements once the filter system has stabilised.



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The design of TC Filters is subject to modification or change of specification without notice.

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