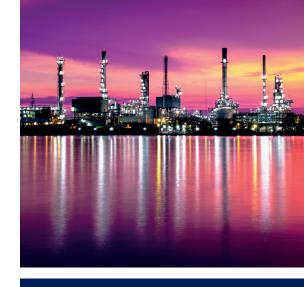


SELF CLEANING FILTERS

MANUAL & AUTOMATIC SIZES 20MM (3/4") - 300MM (12")



CAIRPEL®



SELF CLEANING FILTERS – Manual & Automatic

Self-cleaning filters are designed specifically to provide efficient filtration for liquids, including those of high viscosity, requiring continuous filtration without interruption to the flow during the cleaning process. There is no operator contact with the process fluid. High quality stainless steel elements are highly effective in removing contaminant particles as small as 25 micron (µm).

The filter is available for either manual or fully automatic electric or pneumatic operation. The range of optional control devices makes it particularly suitable for continuous processes and for service with high contamination levels.

BENEFITS

- No operator contact with liquid during cleaning operation.
- Minimised product loss during both process production and system cleaning.
- Increased quality output minimum disruption to product flow.
- Reduced contamination less possibility of accidents or operator exposure to the fluid.
- Reduced maintenance costs automated units eliminate manual cleaning.
- Environment friendly enclosed design with minimal flushing losses.

TYPICAL APPLICATION

- Adhesives
- Chemicals
- Chocolate
- Cooling Lines
- HVAC Water
- Inks
- Lacquers

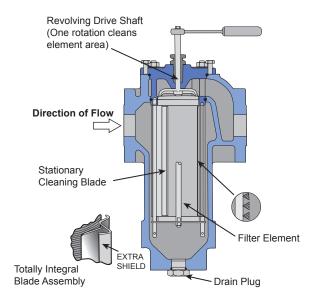
- · Paints, Stains, Varnishes
- Petrochemicals
- Printing
- Recycling Water
- River & Sea Water
- Wash Water

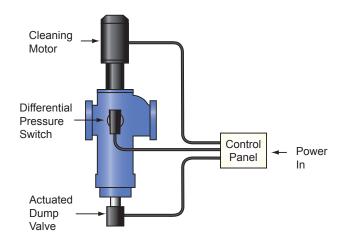
OPERATION

The liquid enters the body and flows through the element from outside to inside. Debris is collected on the outside of the wedge wire or perforated element, which is cleaned without flow interruption by the rotation of the element against the blades. The debris accumulated during rotation is deposited into the bottom of the filter body from where it is periodically discharged, manually or automatically.

AUTOMATED SELF CLEANING FILTERS

The Airpel Filtration automated self cleaning filter allows for stand alone, low maintenance processing of liquids. The range can be automated, either electronically or pneumatically, from 32 mm (1½") and above. The filters can be supplied wired and fully tested, requiring only on site connection to the power source and dump valve connection.





RANGE

Airpel Filtration offer three forms of blade type self cleaning filters: standard range, high pressure range and rotor blade, all working on the same generic principle. Airpel also offer both standard element and high pressure element for very demanding duties. Fabricated units can also be provided, these contain multiple elements and are suitable for larger capacities.



HIGH PRESSURE

Models: 200, 300, 400 and 600 (2"- 6") Construction: cast Materials: iron, steel and stainless steel Working pressures: up to 35 bar

Flow rates: up to 3000 litres/min



STANDARD PRESSURE

Models: 075, 100, 125, 150, 200, 300 and 400 (3/4'' - 4'')

Construction: detachable head and bowl form Materials: cast iron and stainless steel

Working pressures: up to 14 bar

Flow rates: up to 1500 litres/min



ROTOR BLADE

Model: S4 Rotor Blade Construction: stainless steel Materials: stainless steel with stainless steel or plastic blades Working pressures: up to 14 bar

Flow rates: up to 1000 litres/min



SPECIAL FABRICATED

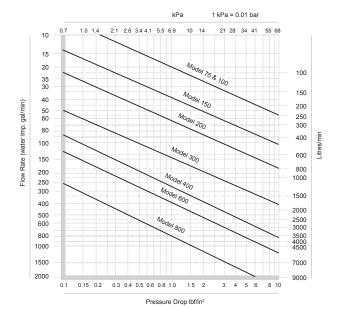
Models: 800, 1000, 1200 (8"-12")Construction: welded

Materials: customer specification Working pressures: customer specification Flow rates: up to 18 000 litres/min

* S1,S2, and S4 are available as manual, motorised and fully automated

SIZING CHART / PRESSURE DROP CHART

The chart is for water flowing through a filter without an element. Use the following correction factors for the chosen filtration rating and for liquids of higher viscosity.

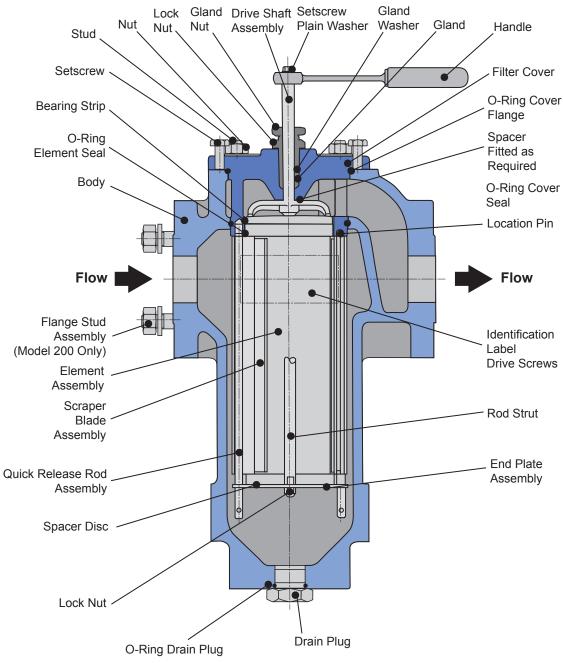


CORRECTION FACTORS

Either – multiply the pressure drop for water shown in the chart by the following correction factors to obtain the actual pressure drop. (Water has a viscosity of 1 centistoke at 20°C) Or - divide the acceptable pressure drop by the necessary correction factor in the table below and then use the chart to determine the filter size and flow rate. All self cleaning products available in manual, motorised & fully automated

CORRECTION FACTORS FOR

| VISCOSITY | FILTRATI | ON RATIN | G | | |
|-------------|----------|----------|--------|--------|-------|
| CENTISTOKES | 1000 μΜ | 500 μΜ | 200 μΜ | 100 μΜ | 50 μΜ |
| 1 | 1 | 1 | 1.1 | 1.2 | 1.45 |
| 50 | 1.4 | 1.8 | 2.1 | 2.3 | 2.5 |
| 230 | 1.70 | 2.5 | 3.0 | 3.35 | 3.75 |
| 370 | 1.8 | 3.0 | 3.4 | 3.8 | 4.3 |
| 860 | 2.6 | 3.7 | 4.2 | 5.0 | 6.0 |



O-Rings, Gland Packing and Washers available only in Seal Kit

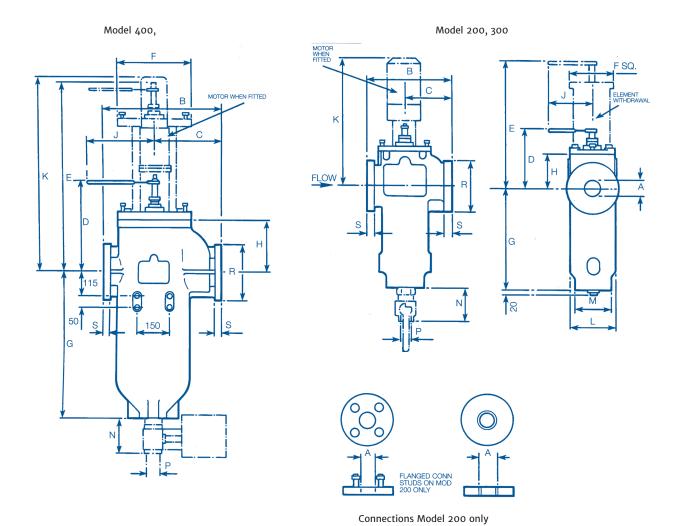


Flanged Filters (sizes in mm)

| MODEL | A PIPE SIZE | В | С | D | E | F | G | н | J | К | L | M | N | Р | R | S | WEIGHT MANUAL (KG) | WEIGHT AUTO (KG) |
|-------|----------------------------------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-------|-----|----|--------------------------|------------------------|
| 200 | 32(1 ¹ /4") 50(2") | 270 | 150 | 195 | 413 | 150 | 325 | 115 | 185 | 540 | 150 | 124 | 110 | 1"BSP | 165 | 25 | 36kg | 44kg |
| 300 | 80(3") | 360 | 210 | 230 | 560 | 180 | 430 | 140 | 185 | 575 | 180 | 124 | 142 | 2"BSP | 210 | 22 | 60kg | 68kg |
| 400 | 100(4") | 550 | 315 | 435 | 1115 | 340 | 665 | 235 | 285 | 880 | 332 | _ | 142 | 2"BSP | 254 | 30 | 164kg | On req. |
| 600 | 150(6") | 550 | 315 | 435 | 1550 | 340 | 1165 | 235 | 285 | 880 | 332 | _ | 142 | 2"BSP | 318 | 35 | 182kg | On req. |

Models 800–1200 units are available as fabricated units comprising of multiple model 600 elements which are subject to process conditions. Please contact our Technical Sales Team for further information on these products.

st The Model 200, 32mm - 50mm size units, also available in screwed version. Larger sizes upon request.



MODEL S2 SELF CLEANING FILTER

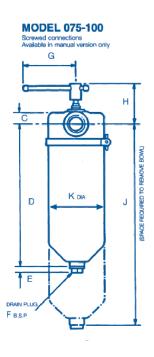


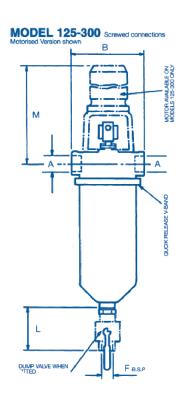
Screwed Filters (sizes in mm)

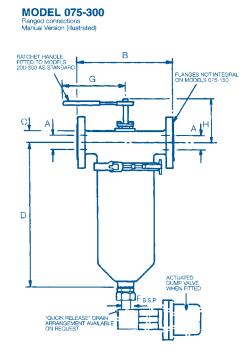
| Model | A | В | с | D | E | F | G | н | J | К | L | м | Weight (kg) |
|-------|----------|-----|----|-----|----|---------|-----|-----|-----|-----|-----|-----|----------------|
| 075 | 3/4"BSP | 150 | 24 | 273 | 13 | 1/2"BSP | 185 | 80 | 450 | 114 | _ | _ | 7kg |
| 100 | 1"BSP | 150 | 24 | 273 | 13 | 1/2"BSP | 185 | 80 | 450 | 114 | _ | _ | 7kg |
| 125 | 11/4"BSP | 208 | 32 | 404 | 20 | 1"BSP | 185 | 133 | 640 | 160 | 110 | 445 | 11.2kg |
| 150 | 11/2"BSP | 208 | 32 | 404 | 20 | 1"BSP | 185 | 133 | 640 | 160 | 110 | 445 | 11.2kg |
| 200 | 2"BSP | 220 | 40 | 458 | 20 | 1"BSP | 185 | 133 | 665 | 160 | 110 | 447 | 19kg |

Flanged Filters (sizes in mm)

| MODEL | A | В | с | D | E | F | G | н | J | К | L | M | WEIGHT (KG) |
|-------|----------|------------|-----------|------------|-----------|---------------|------------|-----------|-----------|-----------|-----------|----------|----------------|
| 125 | 11/4" | 270 | 32 | 404 | 20 | 1"BSP | 185 | 133 | 640 | 160 | 110 | 445 | 11kg |
| 150 | 11/2" | 270 | 32 | 404 | 20 | 1"BSP | 185 | 133 | 640 | 160 | 110 | 445 | 11kg |
| 200 | 2" | 270 | 40 | 458 | 20 | 1"BSP | 185 | 133 | 665 | 160 | 110 | 447 | 25.0kg |
| 300 | 3" | 300 | 56 | 575 | 20 | 2"BSP | 185 | 148 | 895 | 190 | 160 | 46 | 41.0kg |
| 400 | Model 40 | oo unit co | mprises o | of two tim | es 300 un | its manifolde | ed togethe | r. Please | contact o | ur Techni | cal Sales | Team for | further |
| 400 | informat | ion on thi | s product | | | | | | | | | | |







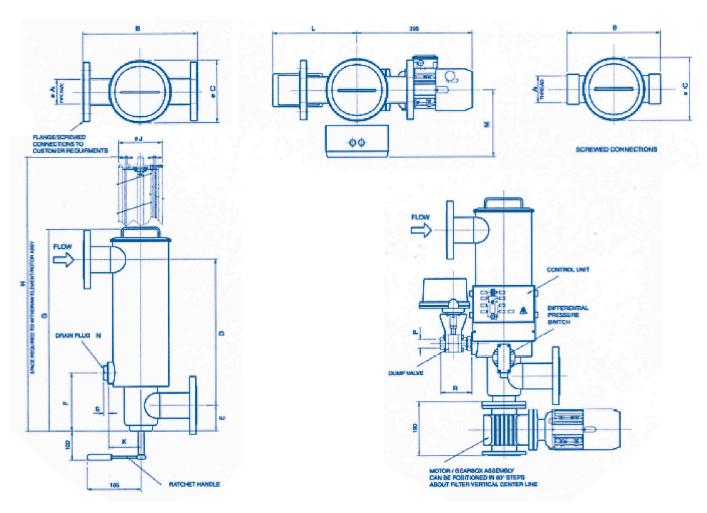


Screwed Filters (sizes in mm)

| MODEL A PIPE SIZE | | | | | _ | | | | | | | | N | P | | |
|-------------------|----------------------------------|-----|-----|-----|----|-----|-----|------|-----|-------|-----|--------|-----|-------|------|----|
| | В | С | D | E | F | G | н | J | K | L | M | BSP OR | NPT | R | S | |
| 150S 200S | 40(1 ¹ /2") 50(2") | 260 | 178 | 400 | 75 | 155 | 570 | 855 | 130 | 100 | 270 | 240 | 1" | 3/4" | 87.5 | 12 |
| 250S 300S | 65(2 ¹ /2") 80(3") | 320 | 208 | 502 | 88 | 200 | 700 | 1135 | 160 | 118.5 | 330 | 240 | 2" | 11/2" | 160 | 15 |

Flanged Filters (sizes in mm)

| Model | A Pipe Size | | с | | _ | _ | G | н | J | К | L | | N | P | | |
|-------|------------------------|--|----------|----------|-----------|-----------|----------|-----------|---------|-------|-----|-----|--------|-----------|------|-----|
| | | В | | D | E | F | | | | | | M | BSP or | NPT R | | S |
| 150F | 40(1 ¹ /2") | 300 | 178 | 400 | 75 | 155 | 570 | 855 | 130 | 100 | 270 | 240 | 1" | 3/4" | 87.5 | 12 |
| 200F | 50(2") | 300 | 176 | 400 | 1/5 | ככי | 370 | ررن | ارار | 100 | 270 | 240 | ' | 14 | 07.5 | 12 |
| 250F | 65(2 ¹ /2") | 240 | 200 | 500 | 0.0 | 200 | 700 | 1135 | 160 | 440 5 | 220 | 200 | 2" | 11/02 | 160 | 4.5 |
| 300F | 80(3") | 340 | 208 | 502 | 88 | 200 | 700 | | 160 | 118.5 | 330 | 290 | 2" | 11/2" 160 | 15 | |
| | Model 400 | Nodel 400 unit comprises of two times 300 units manifolded together. | | | | | | | | | | | | | | |
| 400F | Please conta | act our T | echnical | Sales Te | am for fu | urther in | formatio | n on this | product | t. | | | | | | _ |



Hand-operated Unit Automatic Unit



| SPEED | EXCELLENCE | PARTNERSHIP

OAIRPEL®

Hambridge Road Newbury, Berkshire, RG14 5TR, United Kingdom

P: +44 (0) 1635 263915 F: +44 (0) 1635 36006 E: airpel@celerosft.com

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