Semi-Automatic Filters

Quick and efficient way for cleaning manual filters

- Simple turn-of-a-handle cleaning of the filter screen
- Eliminates the need for turning off the water and extracting the filter screen for rinsing
- No interruption of the process water flow during cleaning
- Low pressure loss
- Available as an upgrading kit for Amiad manual filters from 2”-14”
- Fitted with a “Clogging Indicator”

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<tr>
<th>filtration degrees scanaway</th>
<th>filtration degrees brushaway</th>
<th>supported diameters</th>
<th>maximum operating pressure</th>
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<tr>
<td>500-50 micron</td>
<td>3500-200 micron</td>
<td>2” - 14”</td>
<td>10 bar (150 psi)</td>
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</table>
Amiad Semi-Automatic Filters

General
Amiad’s exclusive Semi-Automatic assemblies provide a quick and efficient way for cleaning manual filters. Amiad’s Scanaway and Brushaway are add-on assemblies built for upgrading Amiad’s steel and plastic filters to semi-automatic operation by adding simple turn-of-a-handle cleaning mechanism to the filter’s screen. Upgrading a manual filter to semi-automatic operation eliminates the need for turning-off the water and extracting the filter screen for rinsing, with the semi-automatic assembly the process flow is not interrupted during operation. Amiad’s semi-automatic assemblies are fitted with a Clogging Indicator for visually monitoring the status of the filter element without disrupting the water flow. A red button pops-up from the indicator when the differential pressure across the screen reaches 0.5 bar. Amiad’s semi-automatic assemblies are available for all Amiad manual filters from 2” to 14”.

How the “Clogging Indicator” Works
The Clogging Indicator is a special feature mounted on the filter pressure check points and acts like a "traffic light". When the pressure differential across the screen reaches a pre-set value of 0.5 bar the red button of the Clogging Indicator pops-up to visually indicate that the filter needs cleaning.
How the “Scanaway” Assembly Works
The Scanaway assembly consists of a suction-scanner, a hollow pipe with suction nozzles, that is facing the inner side of the screen.
Outside the filter a handle is connected to the “suction” scanner, allowing turning of the scanner in a spiral movement so it rotates inside the screen surface without touching the screen mesh.
Opening the exhaust valve at the filter lid creates low pressure conditions in the suction scanner, which cause the scanner nozzles to suck-in the dirt particles from the screen surface and expel the dislodged particles out through the exhaust valve.
Scanning is done during the filtration process without having to stop the flow of process water through the filter.

How the “Brushaway” Assembly Works
The Brushaway assembly consists of nylon brushes fitted on a frame and inserted into the filter screen.
A simple handle, outside the filter, allows brushing away particles from the inner screen surface and expel them out from the filter through the exhaust valve.
Brushing is done during the filtering process without having to stop the flow of process water through the filter.
2”T

3”T

6” Super

Dim. in mm (inch)
## Technical Specifications

<table>
<thead>
<tr>
<th>Filter type</th>
<th>Plastic filters</th>
<th>Steel filters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scanaway assembly</strong></td>
<td></td>
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<tr>
<td>Supported filters</td>
<td>2”T, 2”T-Super, 3”T</td>
<td>2” In-line, 3” In-line, 4”L, 4”S, 6”C, 6”S, 8”, 10”, 12”, 14”</td>
</tr>
<tr>
<td>Maximum flow rate</td>
<td>50 m³/h (220 US gpm)</td>
<td>1000 m³/h (4400 US gpm)</td>
</tr>
<tr>
<td>Filter area</td>
<td>465 - 700 cm² (72 -108 in²)</td>
<td>465 - 22,880 cm² (72-3,546 in²)</td>
</tr>
<tr>
<td>Screen types</td>
<td>Molded St. St. Screens</td>
<td></td>
</tr>
<tr>
<td>Filtration degrees</td>
<td>500, 300, 200, 130, 100, 80, 50 micron</td>
<td></td>
</tr>
<tr>
<td>Min. working pressure</td>
<td>2 bar (30 psi)</td>
<td></td>
</tr>
<tr>
<td>Max. working pressure</td>
<td>10 bar (150 psi)</td>
<td></td>
</tr>
<tr>
<td>Max. working temperature</td>
<td>60°C (140°F)</td>
<td></td>
</tr>
<tr>
<td>Weight [empty]</td>
<td>2”T = 5.1 kg (11.2 lb)</td>
<td>2”IL = 9.5 kg (21 lb)</td>
</tr>
<tr>
<td></td>
<td>2”T-Super = 5.9 kg (13 lb)</td>
<td>3”IL = 19 kg (42 lb)</td>
</tr>
<tr>
<td></td>
<td>3”T = 6.3 kg (13.9 lb)</td>
<td>4”L = 20 kg (44 lb)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4”S = 44.5 kg (98 lb)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6”C = 50 kg (110 lb)</td>
</tr>
<tr>
<td>Construction materials</td>
<td>St. St. 316, Nitrile Rubber, Polypropylene</td>
<td></td>
</tr>
</tbody>
</table>

| **Brushaway assembly** | | |
| Supported filters | 2”T, 2”T-Super, 3”T | 2” In-line, 3” In-line, 4”L, 4”S, 6”C, 6”S, 8”, 10”, 12”, 14” |
| Maximum flow rate | 50 m³/h (220 US gpm) | 1000 m³/h (4400 US gpm) |
| Filter area | 465 - 700 cm² (72 -108 in²) | 465 - 22,880 cm² (72-3,546 in²) |
| Screen types | Molded St. St. Screens | Perforated St. St. Screens |
| Filtration degrees | Molded St. St. Screens: 500, 300, 200 micron | Perforated St. St. Screens: 3500, 2500, 1500, 800, 500 micron |
| Max. working pressure | 10 bar (150 psi) | |
| Max. working temperature | 60°C (140°F) | |
| Weight [empty] | 2”T = 6 kg (13.2 lb) | 2”IL = 10 kg (22 lb) |
| | 2”T-Super = 6.7 kg (14.8 lb) | 3”IL = 16 kg (35.2 lb) |
| | 3”T = 7.3 kg (16 lb) | 4”L = 20 kg (44 lb) |
| | | 4”S = 42.4 kg (93.5 lb) |
| | | 6”C = 47.4 kg (105 lb) |
| Construction materials | St. St. 316, Nitrile Rubber, Nylon | |
NP.00945/10.2011

Filter type Plastic filters Steel filters

Scanaway assembly

Supported filters 2"T, 2"T-Super, 3"T 2" In-line, 3" In-line, 4"L, 4"S, 6"C, 6"S, 8", 10", 12", 14"

Maximum flow rate 50 m³/h (220 US gpm) 1000 m³/h (4400 US gpm)

Filter area 465 - 700 cm² (72 -108 in²) 465 - 22,880 cm² (72-3,546 in²)

Screen types Molded St. St. Screens

Filtration degrees 500, 300, 200, 130, 100, 80, 50 micron

Min. working pressure 2 bar (30 psi)

Max. working pressure 10 bar (150 psi)

Max. working temperature 60°C (140°F)

Weight
- 2"T = 5.1 kg (11.2 lb)
- 2"T-Super = 5.9 kg (13 lb)
- 3"T = 6.3 kg (13.9 lb)
- 2"IL = 9.5 kg (21 lb)
- 3"IL = 19 kg ( 42 lb)
- 4"L = 20 kg ( 44 lb)
- 4"S = 44.5 kg (98 lb)
- 6"C = 50 kg (110 lb)
- 6"S = 63.5 kg (140 lb)
- 8" = 72.5 kg (160 lb)
- 10" = 205 kg (452 lb)
- 12" = 305 kg (672 lb)
- 14" = 395 kg (870 lb)

Construction materials St. St. 316, Nitrile Rubber, Polypropylene

Brushaway assembly

Supported filters 2"T, 2"T-Super, 3"T 2"In-line, 3" In-line, 4"L, 4"S, 6"C, 6"S, 8" 10" 12" 14"

Maximum flow rate 50 m³/h (220 US gpm) 1000 m³/h (4400 US gpm)

Filter area 465 - 700 cm² (72 -108 in²) 465 - 22,880 cm² (72-3,546 in²)

Screen types Molded St. St. Screens

Perforated St. St. Screens

Filtration degrees Molded St. St. Screens: 500, 300, 200 micron

Perforated St. St. Screens: 3500, 2500, 1500, 800, 500 micron

Max. working pressure 10 bar (150 psi)

Max. working temperature 60°C (140°F)

Weight
- 2"T = 6 kg (13.2 lb)
- 2"T-Super = 6.7 kg (14.8 lb)
- 3"T = 7.3 kg (16 lb)
- 2"IL = 10 kg (22 lb)
- 3"IL = 16 kg (35.2 lb)
- 4"L = 20 kg (44 lb)
- 4"S = 42.4 kg (93.5 lb)
- 6"C = 47.4 kg (105 lb)
- 6"S = 61 kg (135 lb)
- 8" = 70 kg (154 lb)
- 10" = 200 kg (441 lb)
- 12" = 295 kg (650 lb)
- 14" = 385 kg (850 lb)

Construction materials St. St. 316, Nitrile Rubber, Nylon

www.amiad.com

W A T E R  SYSTE M S

Industry

Municipal

Irrigation

Headquarters
Amiad Water Systems Ltd. D.N. Galil Elyon 1, 12335, Israel,
Tel: 972 4 690 9500, Fax: 972 4 690 9391,
E-mail: info@amiad.com

North America
Amiad Filtration Systems, 2220 Celsius Avenue, Oxnard,
California 93030, USA, Tel: 1 805 988 3323, Fax: 1 805 988 3313,
E-mail: info@amiadusa.com

South America
Amiad Oil & Gas, Benito Nardone 2219, Montevideo, Uruguay,
Tel: 598 2 7117617, Fax: 598 2 7120816,
E-mail: amisur@adinet.com.uy

Chile
Amiad Andina, Carretera General San Martín 16.500 No 30,
Loteo Industrial Los Libertadores, Colina, Santiago de Chile,
Tel: 56 2 489 5100, Fax: 56 2 489 5101,
E-mail: amiadandina@amiad.com

Brazil
E-mail: amiad@amiad.com.br

Europe
Amiad Water Systems Europe SAS, lot 4, zia La Boitardière,
37530 Chargé, Tel: 33 (0) 2 47 23 01 10, Fax: 33 (0) 2 47 23 80 67,
E-mail: info@amiadfrance.com

Germany
Deutschland Prinz-Regent-Str. 68 a 44795 Bochum,
Tel: 49 (0) 234 588082-0, Fax: 49 (0) 234 588082-12,
E-mail: info@amiad.de

Turkey
FTS – Filtration & Treatment Systems, Istanbul yolu 26 Km,
Yurt Orta Sanayii, Saray, Ankara, Tel: 90 312 8155266/7,
Fax: 90 312 8155248, E-mail: info@fts-filtration.com

India
Amiad Filtration India Pvt Limited, 305 Sai Commercial Building
Govandi St Rd, Govandi Mumbai 400 088, Tel: 91 22-67997813/14,
Fax: 91 22-67997814, Email: info@amiadindia.com

Chile
Yixing Taixing Environet Co., Ltd. 70 Baihe Chang, Xingjie Yixing
Jiangsu, 214204, Tel: 86 510 87134000, Fax: 86 510 87134999,
E-mail: marketing@taixing.cc

South-East Asia
Filtration & Control Systems Pte. Ltd., 19B Teo Hong Road,
088330 Singapore, Tel: 65 6 337 6698, Fax: 65 6 337 8180,
E-mail: fcs1071@pacific.net.sg

Australia
Amiad Australia Pty Ltd. 138 Northcorp Boulevard,
Broadmeadows, Victoria 3047,
Tel: 61 3 93585800, Fax: 61 3 93585888,
E-mail: sales@amiad.com.au