SEMI-AUTOMATIC Filters

filtration degrees scanaway	filtration degrees brushaway	supported diameters	max. operating pressure
500-50 micron	**3500-200** micron	**2" - 14"**	**10** bar (150 psi)

Quick and efficient way for cleaning manual filters

features:

- 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"

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 "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 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.

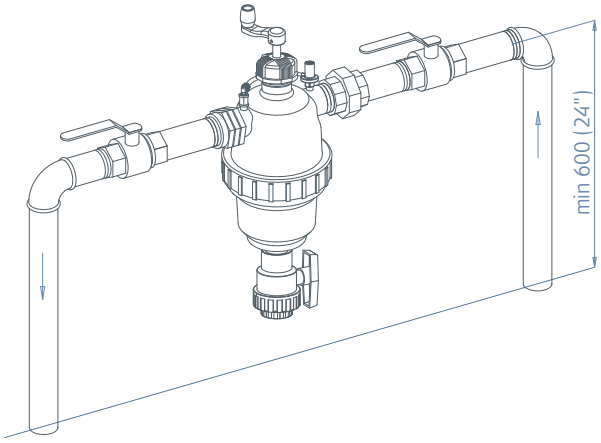
The Motorized Brushaway Assembly - MBA

Amiad's provides an option for converting Brushaway filters into motorized filters. The MBA is a Motorized Brushaway kit to be added to the semi-automatic Brushaway assembly and converting it to an automatic cleaning mechanism.
The kit includes: an exhaust valve, a motor and a controller enabling the filter to be automatically cleaned at pre-set time intervals.
The MBA kit is available in 3 phase, 1 phase or 12V DC models for supporting Brushaway filters sized from 4"-Super to 14".

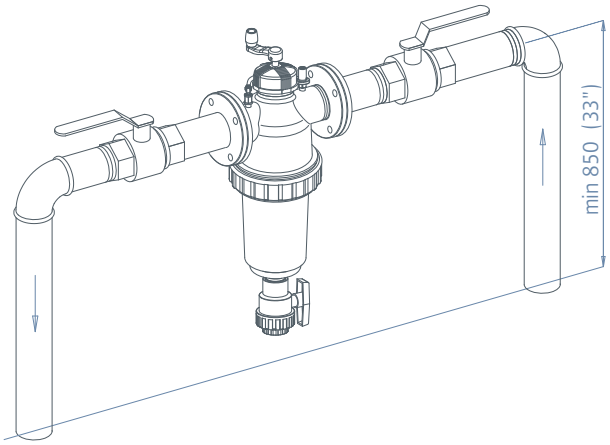
How the "Clogging Indicator" Works

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.

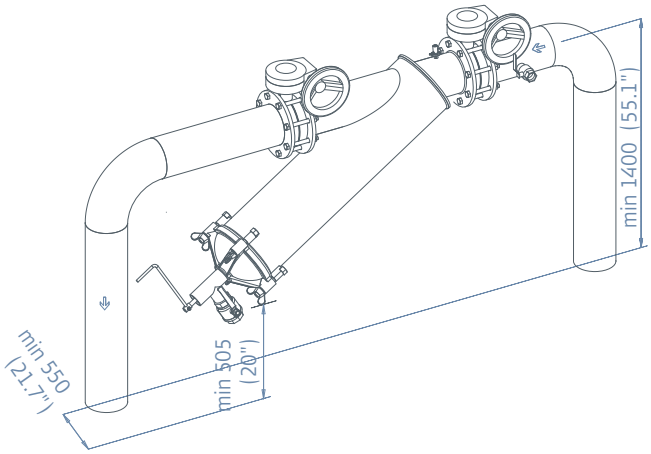
2"T



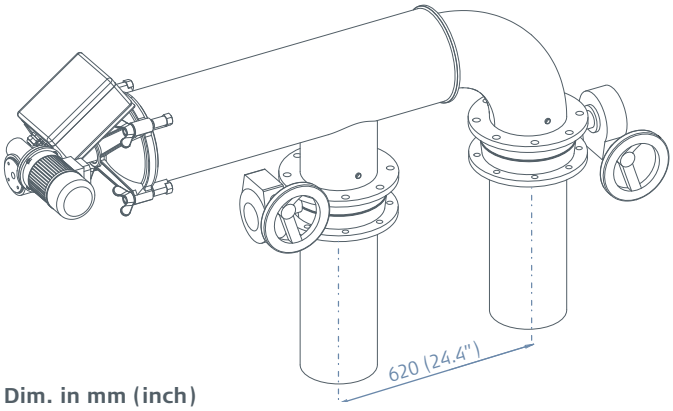
3"T



6" Super



6" Motorized Brushaway



Dim. in mm (inch)

Technical Specifications

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 m^3/h	1000 m^3/h	
Filter area	465 - 700 cm^2 (72 -108 in^2)	465 - 22,880 cm^2 (72-3,546 in^2)	
Screen types	Molded St. St. Screens		
Filtration degrees	500, 300, 200, 130, 100, 80, 50 micron		
Min. working pressure	2 bar		
Max. working pressure	10 bar (150 psi)		
Max. working temperature	60°C (140°F)		
Weight (empty)	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, Nitril 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 m^3/h	1000 m^3/h	
Filter area	465 - 700 cm^2 (72 -108 in^2)	465 - 22,880 cm^2 (72-3,546 in^2)	
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"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, Nitril Rubber, Nylon		