High media filters

Amiad (No longer available)

These products have been replaced by high media filters from Netafim.

High-quality Amiad high media filters in the sizes 20" to 48", specially developed for situations in which very fine filtration is required. These high media filters filter the water by means of three layers of filter material.
The filtration quality is dependent on the effective height of the filter bed and the flow velocity through the filter. The water enters through the filter inlet, is directed to the sand and trickles through the filter bed so that suspended contaminant particles are trapped by the grains of the filter bed. The clean water then runs via the filter nozzles to the filter outlet. Cleaning is carried out by back-flushing in the opposite direction.

APPLICATION

As main filter in e.g. UV installations, HP mist systems or as prefilter for reverse osmosis

CHARACTERISTICS

- Filling with 15 cm supporting layer (coarse sand, basalt or fine gravel), 40-45 cm filter sand (0.6-1.0 mm) and a top layer of 30-35 cm anthracite (0.8-1.6 mm)
- Manual or automatic back-flushing on the basis of pressure difference and/or time
- ISO 9001 standard, CE approval

Size		20"	30"	36"	48"
Max. capacity	m³/h	2	5	7	11
Back-flushing capacity	m³/h	7	16	22	40
Inlet / outlet	inch	2"	3"	3"	4"
Connection		thread-ed	90 mm flange	90 mm flange	110 mm flange
Total height	mm	1945	2050	2050	2050
Filter diameter	mm	508	750	900	1200
Filter capacity	liter	300	750	1100	2040
Filter bed area	m²	0,2	0,44	0,64	1,13
Filter bed depth	mm	950	950	950	950
Filter bed volume	litres	190	420	600	1070
Weight (empty)	kg	50	125	200	300

TECHNICAL DATA

Diameter : 20" to 48"
Max. pressure : 6 bar (at 20 °C)
Max. capacity : 2 - 11 m³/h (see table)
Max. temp. : 60°C (with decreasing max. pressure)
Resistance : see chart for Amiad media filters
Material : polyester-coated steel
Colour : RAL 5010 (blue)

INSTALLATION & MAINTENANCE

Installation

- Read the enclosed operating instructions and installation instructions before installation.
- Always use a subsequent filter with a screen of 100-130 micron behind the filter. A finer screen also gives an indication of whether the filter is 'leaking'.
- For a better function during back-flushing, we recommend the installation of a combination air valve (A.R.I. D-040 Barak) at the highest point of a media filter installation.

Maintenance

- Media filters are cleaned by back-flushing. Back-flushing in good time also prevents the formation of channels in the sand bed. Water is pumped in the opposite direction through the filter so that the sand bed is loosened; the contaminant particles are released from the sand and flushed away via the drain line. The back-flushing velocity must be 35-40 m³/h. Flush until contaminant is no longer washed out with the flushing water (min. 5 minutes).
- Check at least twice a year whether the sand is loose enough and that no channels have formed in the sand bed. Replace the sand every 3 years.