Media filters

Amiad (No longer available)

These products have been replaced by media filters from Netafim.

High-quality Amiad media filters in the sizes 16" to 60". These media filters filter the water by means of a thick layer of sand grains. 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
Main filter in drip irrigation, spinkler irrigation and in UV installations, or as prefilter for e.g. reverse osmosis

CHARACTERISTICS
- Depth filtration thanks to deep sand bed
- Dimensions 16" to 60" with threaded or flanged connection
- High capacities from 8 to 90 m³/h
- Simple manual or automatic back-flushing on the basis of pressure difference and/or time
- Standard grain size from 0.6 - 1.0 mm (not supplied)

TECHNICAL DATA
Diameter   : 16" - 60"
Connection   : flanged or threaded connection
Capacity   : see table
Max. working pressure : 8 bar (at 20°C)
Resistance   : see charts
Material   : epoxy-coated steel
Colour   : RAL 5010 (blue)
Nozzle slot width   : 0.5 mm
Standard sand grain   : 0.6 - 1.0 mm

Technical specifications

Model designation		16"	20"	20"	30"	36"	42"	48"	60"
Max. filtration capacity	m³/h	8	11	11	24	36	48	60	90
Back-flushing capacity	m³/h	4-5	7-8	7-8	16-17	22-25	30-34	39-45	62-70
Inlet / outlet	inch	1½"	2"	3"	3"	3"	3"	4"	4"
Connection (D1)	type	threaded	threaded	threaded	flanged 90	flanged 90	flanged 90	flanged 110	flanged 110
Total height (H)	mm	1175	1280	1280	1197	1242	1110	1189	1420
Height of outlet (H1)	mm	180	180	180	300	300	300	330	440
Height of inlet (H2)	mm	840	880	880	-	-	-	-	-
Filter diameter (D)	mm	390	480	480	750	900	1050	1200	1500
Filter bed area	m²	0,13	0,18	0,18	0,44	0,64	0,9	1,13	1,77
Filter bed depth	mm	500	500	500	400	400	400	400	400
Filter bed volume	litres	65	100	100	175	260	360	450	710
No. of nozzles	pieces	11	14	14	30	42	58	72	126
Sand weight	kg	100	150	150	250	375	550	650	1000

NETAFIM™
NETHERLANDS
GROW MORE WITH LESS

Pressure loss

Function of back-flushing
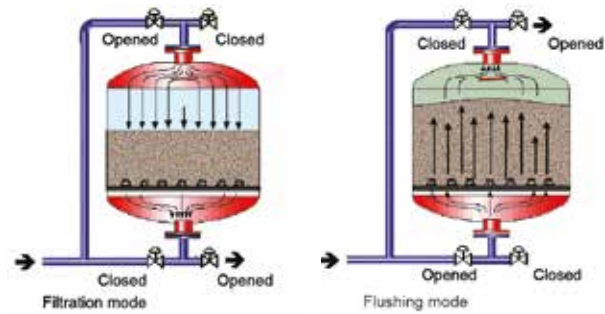
INSTALLATION & MAINTENANCE

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.

Inspection and replacement of sand filling
Do not open the filter until the following actions have been performed:
- ✓ Close all valves up- and downstream of the media filter.
- ✓ Open the flushing valve and ensure that the filter has been completely drained and is depressurised.
- ✓ The filter covers can now be carefully opened.

Filter covers
The following filter covers and rubbers are available:

1:	Cover (complete) 1998
	Rubber (74480-008360)
2:	Cover (complete) 1999
	Rubber flat/round (74480-017351)
	O-ring housing (74480-004150)
3:	Service cover (side) 2000
	Rubber
4:	Cover (top) complete 2000
	(74480-061255)

NETAFIM™
NETHERLANDS
GROW MORE WITH LESS