





ScanJet

Automatic screen filter for high dirt loads and fine filtration.

Efficient and powerful cleaning ability, makes it ideal for heavy duty applications with high loads and hard to remove suspended solids.



flowrates

filtration degrees

water for cleaning

minimum operating pressure

up to 1,000 m³/h (4,400 gpm)

25 - 300 micron

typical backwash volume < 1% 1.5 bar (22 psi)

Features and benefits:

- Automatic self cleaning screen filter designed for high and sticky TSS loads.
- The ScanJet is designed for continuous flushing, to handle high dirt loads in one stage filtration.
- Unique and innovative back-flushing process, which combines a suction scanner and pressurized spray jets.
- The ScanJet is a clog-free filter; its cleaning mechanism will not allow the screen to get blocked.
- * Patent pending

- Suitable for low-pressure filtration as low as 1.5 bar.
- Fine micron screen range, 50, 40, 25 micron screens are available for all applications.
- Flexible in flushing programs, including continuous flush, flush by DP, time, or a combination of all.
- While flushing, there are no interruptions on the filtered water flow.
- The ONLY filter in the market that offers multiple cleaning options and suites any type of heavy load applications and conditions.

How the ScanJet Filter Works

Filtration process:

Raw water is supplied by the consumer's system to the entry point of the filter. The filter filters the water to the micron degree of the screen and the filtered water exist the filter through the outlet port.

Self-cleaning process:

A filter cake starts to build up due to dirt load on the screen. The Filtration system enters into flushing mode due to one of the following triggers and signals:

- 1. Time interval.
- 2. DP Pressure differential signal.
- 3. Manual start command.

A pressure differential switch is installed on the filter control system. Once a pressure differential signal (at a preset value) is transmitted to the controller the system enters into flush cycle.

This back-flushing process is an innovative process that combines a suction scanner and pressurized spray jets:

In the inner side of the screen a suction scanner is installed, and in the outer side of the screen spray nozzles are located in front of each suction point of the scanner.

During flushing a powerful jet dislodges the filter cake from the outside in while the suction scanner sucks and expels the debris through the exhaust valve.

In the case of heavy dirt load the filter will automatically detect a higher frequency of DP build up, and the controller will switch to continual flush mode.

Control & flushing programs:

- Various operation modes of suction and jetting enable optimal cleaning efficiency with minimum wasted water.
- Flush by accumulated DP.
- Flush in continual mode, with jets or without, (optional).

Technical Specifications

Filter Type	10,000 *	4,500	1,500	
General Data				
Maximum flow rate *	1,000 m³/hr (4,400 gpm)	160 m³/hr (700 gpm)	80 m³/hr (350 gpm)	
Min. working pressure	1.5 bar (22 psi)			
Max. working pressure	10 bar (145 psi)			
Filter area	10,000 cm² (1,550 in²)	4,500 cm ² (690 in ²)	1,500 cm² (232 in²)	
Inlet/Outlet diameter	200-350 mm (8"-14")	80-150 mm (3"-6")	50-100 mm (2"-4")	
Max. working temperature		60°C (170°F)		
Type of screen	Weave Wire			

^{*} Max. flow recommendation is based on water quality and specific micron rating. Please consult with your authorized representative.

Flush data

Exhaust valve	3" (80 mm) butterfly valve	2" (50 mm) butterfly valve	2" (50 mm) butterfly valve	
Flushing cycle time	35 sec	20 sec	20 sec	
Wasted water per cycle	500 liter 80 liter (132 gallons)		40 liter (10 gallons)	
Min. flow for flushing	50 m³/hr (220 gpm) 15 m³/hr (66 gpm)		7 m³/hr (30.8 gallons)	
Recommended Spraying Pressure		10 bar (145 psi)		

Control and electricity

Electric motor	0.375 Kw	0.25 Kw	
Rated operation voltage	400-480 volt 50/60 (other voltages available per request)		
Control voltage		24 DC	

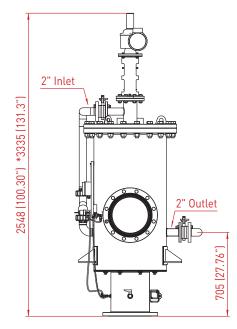
Pump and electrical Data

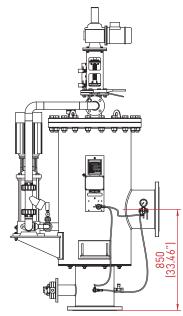
Pump	6 Kw	4 Kw	2.5 Kw
Flow nominal	15 m³/hr (66 gpm)	10 m³/hr (44 gpm)	6 m³/hr (26.5 gpm)
Pressure		10 bar (145 psi)	

Construction materials

Filter housing and lid	Epoxy coated C/ST, St St 316
Screen	ST/ST 316L
Cleaning mechanism	ST/ST 316L
Exhaust valve	Actuated valve (pneumatic or electric)
Seals	NBR, EPDM
Control system	PLC with HMI

ScanJet 10,000 dimensions: On-Line:





Dim: mm (inch)
*In-line configuration available as well

Filtration degrees available							
micron	200	130	100	80	50	40	25
mesh	0.2	N 13	N 1	N N8	0.05	0.04	0.02

Headquarters

Amiad Water Systems Ltd. D.N. Galil Elyon 1, 1233500, Israel, Tel: 972 4 690 9500, Fax: 972 4 814 1159, E-mail: info@amiad.com

America



Amiad USA Inc. Main Office and Manufacturing: 120-J Talbert Road, Mooresville, NC 28117, Tel: 1704 662 3133, Fax: 1704 662 3155, Toll Free: 1800 24 FILTER. E-mail: info@amiadusa.com www.amiadusa.com

West Coast Sales Office and Warehouse: 2220 Celsius Avenue, Oxnard, California 93030

Tel: 805 988 3323, Fax: 805 988 3313, Toll Free: 1 800 969 4055

Amiad Andina, Carretera General San Martín 16.500 No 30, Loteo Industrial Los Libertadores, Colina, Santiago de Chile, Tel: 56 2 24895100, Fax: 56 2 24895101, E-mail: amiadandina@amiad.com

Amiad Sistemas de Água Ltda., Av. Funchal, 411, Conj. 42, Vila Olimpia, São Paulo, CEP 04551-060 Tel: +55 11 31923824, E-mail: infobrasil@amiad.com

Amiad Oil & Gas, E-mail: amisur@adinet.com.uy

Amiad Mexico SA DE CV,

Priv. Retorno 8, Lote 3, Mza. 1, Interlomas Estado de Mexico Tel/Fax: +52 55 636 28122, E-mail: info@amiadmexico.com

Asia



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

Amiad China (Yixing Taixing Environtec 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., 22 Sin Ming Lane #07-88 Midview City, Singapore 573969, Tel: 65 6 337 6698, Fax: 65 6 337 8180, E-mail: amiad@amiad.com.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

Europe



Amiad Water Systems Europe SAS, Ilot No4 ZI La Boitardière, 37530 Chargé, France, Tel: 33 (0) 2 47 23 01 10, Fax: 33 (0) 2 47 23 80 67, E-mail: info@amiad-europe.com

Amiad Water Systems SAS Europe (German branch office) Zweigniederlassung Deutschland Prinz-Regent-Str. 68 a 44795 Bochum, Tel: 49 (0) 234 588082-0, Fax: 49 (0) 234 588082-10, E-mail: info@amiad.de

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









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