

**SIDE STREAM FILTRATION SYSTEM
ADES ADF
Series**

**Model
ADES-ADF-018**

GENERAL INFORMATION

ADES ADF is the side-stream filtration product line for cooling tower, boiler which uses the Amiad Spin Klin™, a modular, all polymeric automatic disc filtration system.

Spin Klin™ is based on innovative technology that captures and retains a large amount of solids. Its unique and efficient hydraulic self-cleaning backwash mechanism requires low water consumption and saves energy demands.

ADES-ADF-018 system includes:

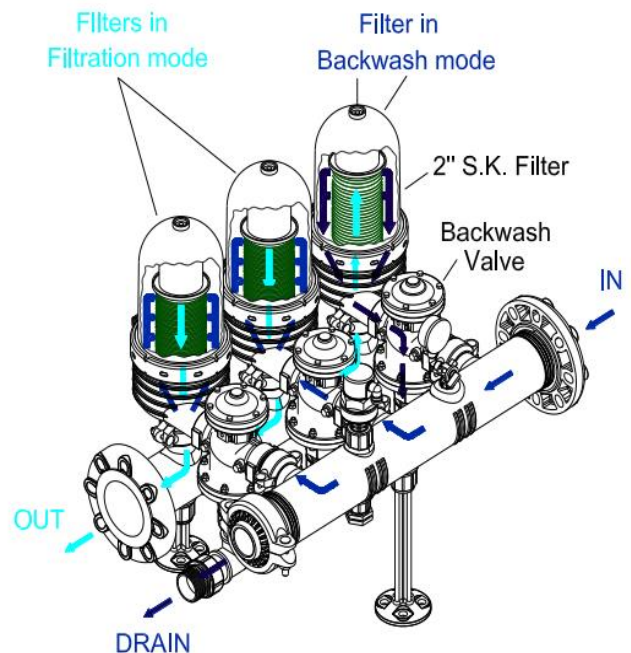
- ✓ Feed pump with IE3, IP55 motor.
- ✓ Automatic self-cleaning filter (Spin Klin - Amiad)
- ✓ SGP piping.
- ✓ Liquid filled pressure gauge and pressure switch for pump protection.
- ✓ Automatic control with dP sensor and pressure sustaining valve.
- ✓ Manual valves and accessories.
- ✓ SS400 with 3 layers epoxy coated steel skid frame.
- ✓ Connection with JIS10K Flange.
- ✓ 380 - 415V / 3Phase / 50Hz power supply.

System Features/ Benefits

- Micron-precise depth filtration of solids.
- Short automatic backwash with regulated water volume for a small water footprint.
- Compact design and minimal maintenance.
- Reliable and durable.
- Low water and energy consumption.
- Polymeric.



*The above photo of ADES-ADF-018 is for illustration purpose only.



*Amiad Spin Klin 's mode of operation

Pump Specifications

Pump type	Close-coupled end suction
Flowrate (m ³ /h)	18
Head (mH)	40
Temperature (Clean water)	Standard 85°C
Flange pressure rating	PN16
Casing & Impeller material	Cast iron
Shaft material	Stainless Steel ASTM 420

Automatic self-cleaning filter Specifications

Model	2 x 2" Spin Klin™
Filtration Degrees (µm)	100
Filtration type	Disc filter
Backwash data	
Flushing time (Sec.)	20
Min. backwash pressure (Bar)	3.5
Min. flow for backwash (m ³ /h)	10

Feed Water Quality¹

Parameter	Value
Turbidity (NTU)	≤30
Total Hardness (mgCaCO ₃ /L)	≤300
TSS (mg/L)	≤30
BOD (mg/L)	≤20

¹Please contact us if the feed water source is worse than the above standard.

System and Operating Configuration

Model	ADES-ADF-018
No. of unit batteries	2
Dimension ² L x W x H (mm)	1110 x 1460 x 1665
Approx. Weight (kg)	54
Net Production Flow (m ³ /h)	18

²The dimensions of the system may vary and subject to change without prior notice.

Mechanical Connections (Flange)²

Feed Port	DN80 (3")
Permeate Port	DN80 (3")
Drain Port	DN50 (2")



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