

# ARKAL DISC FILTERS SERIES



Compact - Spin Klin™ - Galaxy



# ARKAL DISC FILTERS SERIES (Compact, Spin klin™, Galaxy)



2" SpinKlin™ Compact



2" Spin Klin™



3" Spin Klin™



4" Spin Klin™ Galaxy



10" Spin Klin™ Super Galaxy

Filtration type		Compressed discs with back wash
Operation principle		<a href="#">Amiad - Arkal Spin Klin Filter</a>
Filtration degree		10-400 µm
Flow rates Depends on water quality and filtration degree	2" Compact	1 - 20 m³/h
	2" Spin Klin™	6 - 120 m³/h
	3" Spin Klin™	60 - 300 m³/h
	4" Galaxy	200 - 3000 m³/h
	10" Super Galaxy	500 - 60 000 m³/h
Applications type		<ul style="list-style-type: none"> <li>• Colling Tower full stream and side stream</li> <li>• Tertiary treatment, UV protection</li> <li>• Membrane protection</li> <li>• TSS Removal - mineral / organic</li> </ul>
TSS type		Mineral and organic TSS
Advantages		<ul style="list-style-type: none"> <li>• Polymeric construction, no corrosion, no electric motor, no wear</li> <li>• Excellent backwash cleaning ability</li> <li>• Excellent removal of mineral suspended solids fibers, algae filamentous, worms etc.</li> <li>• Suitable for corrosive products (sea water, chlorides)</li> </ul>
Constraints		<ul style="list-style-type: none"> <li>• Abrasive particles not recommended (&lt;3 PPM sand)</li> <li>• Sensitive to negative temperatures</li> <li>• Needs pressure for backwash, needs air compressed</li> </ul>
Max. working temperature*		60° C
Max. working pressure (standard)*		10 bar (SG10 6 bar)
Min. working pressure		1.5 bar
Minimum Pressure for Flushing	10 / 20 / 40 / 55 µm	5 bar
	70 µm	4 bar
	100 / 130 µm	3.5 / 3 bar
	200 / 400 µm	3 / 2.8 bar
Construction materials	Manifold PP	<ul style="list-style-type: none"> <li>• Filters: RPA (Reinforce Polyamide) or RPP (Reinforce Polypropylene)</li> <li>• Discs: PP (Polypropylene) or PA (Polyamide)</li> </ul>
Utilities	Electricity	230 VAC - 1 ph - 50/60 Hz / 12 VDC
	Compressed air (without oil)	6-8 bar clean
Comments		Typical solutions for Arkal Spin Klin™ filters: high volume of organic TSS. 50mg / l, available online, available with air aided or external source

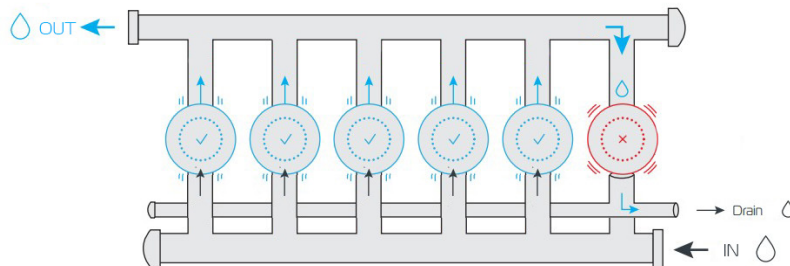
\*Maximum operating pressure and temperature are interdependent parameters and are given for general reference only.

## Examples of backwash configurations

### "Internal source"

If sufficient pressure for the backwash.

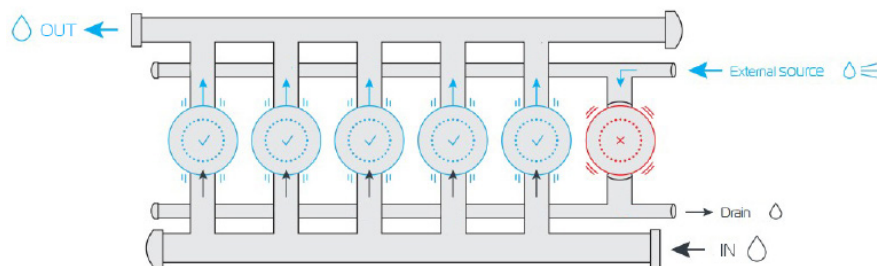
#### Internal source backwash battery



### "External source"

If insufficient service pressure for backwashing the pressurized water from the external source header enters the filter through its outlet port and backwashes it.

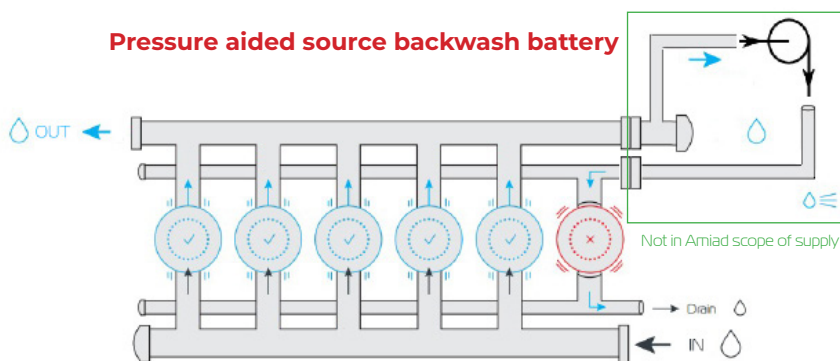
#### External source backwash battery



### "Pressure aided source"

If insufficient service pressure and no external network, dedicated pump booster.

#### Pressure aided source backwash battery



### "Air Aided Source"

If insufficient service pressure, compressed air is used to assist backwashing the filter.

#### Air aided source backwash battery

