WATER TECHNOLOGIES

Filtraflo™ FCP-P

VEOLIA

Media Pressure Filtration

Modular, hydraulically optimized pressure filter offering depth filtration & high retention capacity for suspended solids, chlorine, or organics depending on the selected media. Air and water backwash possible.

Flow rates From
6 to 450 m³/h

Power
Laboratory
Electronics
General Industry
Drinking Water
Municipal WW

FEATURES & BENEFITS

- Carbon Steel vessel with corrosion resistant epoxy coating & lining;
- Nozzle floor & inlet tulip for even hydraulic & air distribution
- Easier operability: 2xmanholes, 1x headhole, manlid crane, ladder support, lifting lugs
- Reliable & safe operation: Pneumatic valves, U-PVC & SS304 for water piping & PE100 for Air piping with air venting valve.
- Flexibility: Up to 4x filters in parallel with increased feed pressure
- Adjustable Backwash configurations : air + water, air only, water only.

HIGH QUALITY MEDIA
- Sand &/or Anthracite : suspended solids removal
- Activated Carbon: chlorine, phenol and organics removal

APPLICATIONS

- Surface and well water filtration and heavy metal precipitation
- Cooling tower water loop filtration
- Pre-treatment prior to membrane and ion exchange technologies
- Organics removal with specific media
- Drinking water production (ACS, KTW)
- Wastewater filtration for reuse

OPTIONS

- Magnetic inlet flow meter (one per battery)
- Outlet magnetic flow meter (one per filter)
- Inlet & outlet pressure transmitters (one of each per battery)
- Inlet TSS meter (one per battery, first filter)
- Outlet TSS meter (one per battery)
- Backwash air assembly

HYDREX® CHEMICALS

Hydrex® 3000 and 6000 water treatment chemicals from Veolia Water Technologies may optionally be used to enhance filtration.

ASSOCIATED SERVICES

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.

System Operating Parameters

Model	Unit	12-15	12-25	15-15	15-25	18-15	18-25
Max Feed Flowrate	m³/h	6.7-16	6.7-16	10-25	10-25	15-37	15-37
Backwash Flowrate	m³/h	8.9-38	8.9-38	13-60	13-60	20-87	20-87
Maximum supply pressure	barg	8					
Maximum Operating Temperature	°C	30					
Backwash Air	Nm³/h	49-72	49-72	77-112	77.8-112	112-162	112-162

Model	Unit	22-15	22-25	26-15	26-25	32-15	32-25
Max Feed Flowrate	m³/h	22-56	22-56	31-78	31-78	47-119	47-119
Backwash Flowrate	m³/h	30-131	30-131	41-183	41-183	63-278	63-278
Maximum supply pressure	barg	6					
Maximum Operating Temperature	°C	30					
Backwash Air	Nm³/h	168-243	168-243	235-339	235-339	357-516	357-516

Note:
1. Feed flow rates as shown above based on linear speed 6m/h (mini) - 15m/h (maxi)
2. Flow rates are dependant, on feed water quality and media selection
3. Our filters can be assembled and delivered up to 4x filters in parallel

System Dimensions

Model	Unit	12-15(3)	12-25	15-15	15-25	18-15	18-25
Total Installed Length(1)	m	3.20	3.20	3.50	3.50	3.80	3.80
Total Installed Width(1)	m	2.20	2.20	2.50	2.50	2.50	2.50
Total Installed Height(1)	m	2.80	3.80	3.00	4.00	3.20	4.20
Diameter	m	1.20	1.20	1.50	1.50	1.80	1.80
Empty Weight	kg	2300	2700	2800	3100	3100	3500
Operating Weight(2)	kg	4300	4500	5900	8200	7900	11100

Model	Unit	22-15	22-25	26-15	26-25	32-15	32-25
Total Installed Length(1)	m	4.60	4.60	4.90	4.90	5.90	5.90
Total Installed Width(1)	m	3.20	3.20	3.60	3.60	4.20	4.20
Total Installed Height(1)	m	3.40	4.40	3.70	4.70	4.50	5.50
Diameter	m	2.20	2.20	2.60	2.60	3.20	3.20
Empty Weight	kg	3700	4200	4900	5600	7100	8000
Operating Weight(2)	kg	11100	15800	15700	22200	24000	33800

(1) Please refer to O&C drawings for accurate values
(2) Max. values depending on media configurations
(3) XX-YY: XX for XX00mm vessel diameter & YY for YY00 mm ferrule height

Pipes Connections - Batteries S & D[4]

Model	Unit	12-15	12-25	15-15	15-25	18-15	18-25
Feed	DN	80	80	100	100	125	125
Treated water	DN	80	80	100	100	125	125
Backwash	DN	65	65	100	100	100	100
Drain	DN	40	40	50	50	50	50

Model	Unit	22-15	22-25	26-15	26-25	32-15	32-25
Feed	DN	150	150	200	200	250	250
Treated water	DN	150	150	200	200	250	250
Backwash	DN	125	125	150	150	200	200
Drain	DN	65	65	80	80	100	100

[4] Please refer to O&C drawings for Batteries T & Q

Feed water Requirements

Parameter	Unit	Value
Filtration Speed	m/h	6 - 15 [5]

[5] For surface or wastewater, coagulation may be needed in front

Environmental Conditions[6]

Parameter	Unit	Value
Minimum ambient temperature	°C	2
Maximum ambient temperature	°C	45
Maximum humidity	%	85

[6] Indoors use only

Materials of Construction

Pressure Vessels	Carbon Steel, coating & lining
Pipework	U-PVC, PE100

Air & Power Requirements

Parameter	Unit	Value
Compressed Air Pressure	barg	8
Voltage	V	110-230
Frequency	Hz	50-60

*Product manufactured by Solys whose quality system has been certified ISO 9001 by Bureau Veritas Certification.

In keeping with the progressive nature of the company, we reserve the right to amend details without notice. VEOLIA/SOLYS/Filtraflo™ FCP-P/12/June/2024