

FILTRAFLO™ FCP-D

Media Pressure Filtration

Granular media pressure filter can remove suspended solids or chlorine depending on the selected media. Standard unit is only backwash with feed water. (without air)

Flow rates
From 12 to
106 m³/h



✓ FEATURES & BENEFITS

- Steel vessels internally coated with corrosion resistant epoxy painting;
- One manhole; easy access for maintenance
- U-PVC pipings
- Simplex Configuration only
- Venting pipe
- High Quality media available
- Indoor Installation

HIGH QUALITY MEDIA

- Sand: suspended solids removal
- Anthracite for in depth suspended solids removal
- Activated Carbon: chlorine, phenol and organics removal

HYDREX™ CHEMICALS

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

💧 APPLICATIONS

- Surface and well water filtration and heavy metal precipitation
- Cooling tower water filtration loop
- Pre-treatment prior to membrane and ion exchange technologies
- Organics removal with specific media
- Wastewater filtration for reuse
- Sea water filtration

+ OPTIONS

- Pressure Gauge, Differential Pressure Switch or Pressure transmitter
- Control panel for automatic backwashing and rinsing
- Air compressor for pneumatic valves
- Choice of high quality media: Double (sand, garnet, anthracite) or triple (sand, garnet, anthracite) layer media; Single layer activated carbon media

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	FCP-D-125-100	FCP-D-125-200	FCP-D-150-100	FCP-D-150-200	FCP-D-180-100	FCP-D-180-200	FCP-D-210-100
Nominal Feed Flowrate ⁽¹⁾	m ³ /h	7.3 - 18	7.3 - 18	10.5 - 26	10.5 - 26	15.2 - 38	15.2 - 38	20.5 - 52
Backwash Flowrate ⁽²⁾	m ³ /h	18 41	18 22	27 61	27 33	45 90	45 40	53 114
Max. Operating Pressure	bar	6						
Max. Operating Temp.	°C	40						

Model	Unit	FCP-D-210-200	FCP-D-225-100	FCP-D-225-200	FCP-D-250-100	FCP-D-250-200	FCP-D-300-100	FCP-D-300-200
Nominal Feed Flowrate ⁽¹⁾	m ³ /h	20.5 - 52	23.5 - 60	23.5 - 60	38.9 - 72.9	38.9 - 72.9	42 - 106	42 - 106
Backwash Flowrate ⁽²⁾	m ³ /h	52 59	59 143	59 79	79 174	79 91	114 250	114 131
Max. Operating Pressure	bar	6						
Max. Operating Temp.	°C	40						

⁽¹⁾ Indicative maximum flow rate are given for a velocity of 6 and 15m/h. Filtered water will vary depending on filtration velocity, media selection and inlet water quality

⁽²⁾ Value for dual media | triple media bed

System Dimensions

Model	Unit	FCP-D-125-100	FCP-D-125-200	FCP-D-150-100	FCP-D-150-200	FCP-D-180-100	FCP-D-180-200	FCP-D-210-100
Total Installed Length	m	1.80	1.80	2.15	2.15	2.40	2.40	2.70
Total Installed Width	m	2.07	2.07	2.47	2.47	2.76	2.76	3.11
Total Installed Height	m	2.36	3.36	2.40	3.40	2.70	3.70	2.75
Empty Weight	kg	500	600	850	900	1100	1400	1550
Operating Weight ⁽³⁾	kg	3900	3900	6000	6000	8700	8700	12300

Model	Unit	FCP-D-210-200	FCP-D-225-100	FCP-D-225-200	FCP-D-250-100	FCP-D-250-200	FCP-D-300-100	FCP-D-300-200
Total Installed Length	m	2.70	2.90	2.90	3.20	3.20	3.80	3.80
Total Installed Width	m	3.11	3.34	3.34	3.68	3.68	4.37	4.37
Total Installed Height	m	3.75	2.90	3.90	3.06	4.06	3.33	4.33
Empty Weight	kg	2700	1850	2900	2500	3200	3500	3800
Operating Weight ⁽³⁾	kg	12300	14500	14500	19000	19000	28000	28000

⁽³⁾ Maximum weight for this diameter

Pipes Connections

Model	Unit	FCP-D-125-100	FCP-D-125-200	FCP-D-150-100	FCP-D-150-200	FCP-D-180-100	FCP-D-180-200	FCP-D-210-100
Feed	DN	65	65	80	80	100	100	100
Treated water	DN	65	65	80	80	100	100	100
Drain	DN	50	50	50	50	50	50	50

Model	Unit	FCP-D-210-200	FCP-D-225-100	FCP-D-225-200	FCP-D-250-100	FCP-D-250-200	FCP-D-300-100	FCP-D-300-200
Feed	DN	100	150	150	150	150	150	150
Treated water	DN	100	150	150	150	150	150	150
Drain	DN	50	50	50	50	50	50	50





Feed water Requirements

Parameter	Unit	Value
Minimum Operating Pressure	bar	1 ⁽⁴⁾
Maximum Inlet TSS	mg/l	45 ⁽⁵⁾

⁽⁴⁾ Feed supply pressure must be able to cover backwash flow rate too

⁽⁵⁾ Above 45 mg/L it must be validated by SOLYS Technical Department

Environmental Conditions

Parameter	Unit	Value
Minimum ambient temperature	°C	5
Maximum ambient temperature	°C	50
Maximum humidity	%	75

Materials of Construction

Pressure Vessels	Carbon Steel. Epoxy painting internal 250µm; epoxy external 170µm
Pipework	PVC

Air & Power Requirements

Parameter	Unit	Value
Compressed Air Pressure	barg	6
Voltage	V	110-230
Frequency	Hz	50