

# Uflex™



## Ultrafiltration

UFLEX™ ultrafiltration systems are skid-mounted, reliable and compact solutions for removing suspended solids, most bacteria and log4 viruses.



Flow rates 3.2 to  
112 m³/h



Pharma



Cosmetics



Power



Laboratory

General  
IndustryMunicipal  
WW

### ✓ FEATURES & BENEFITS

- Fully automatic operation with no operator involvement
- Automatic Hydraulic backflush & CEB backwash with connections
- Integrated and simple use controller for easy operation and maintenance
- Module vertical mounting for space saving
- Skid modular and flexible design enabling easy production capacity extension
- One controller to manage up to 4\*\* skids in parallel mode for cost saving

\*\* Applicable for UF35 controller

### 💧 APPLICATIONS

- Industrial process water\*
- Swimming pool water
- Water recycling and reuse
- City water station
- Well water
- Surface water\*
- Waste water\*

\* Coagulant dosing unit is necessary before filtration process and/or module recirculation pumps (excluded from our scope)

### + OPTIONS

- Inlet control valve
- CEB backwash station with dosing pumps
- Backwash buffer tank to complete the CEB station above
- Integrity test device
- Up to 4 parallel units

### HYDREX® CHEMICALS

Hydrex® 4000 water treatment chemicals from Veolia Water Technologies are recommended for optimized plant operation.

### 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	64/1-P	128/2-P	192/3-P	256/4-P
Nb of elements per skid	-	1	2	3	4
Membrane Area	m <sup>2</sup>	64	128	192	256
Permeate Nominal Flowrate	m <sup>3</sup> /h	3.2 - 7	6.4 - 14	9.6 - 21	12.8 - 28
Operating TMP	bar	0.5 – 1.0	0.5 – 1.0	0.5 – 1.0	0.5 – 1.0
Typical Design Flux	l/h/m <sup>2</sup>	50 - 110	50 - 110	50 - 110	50 - 110
Recovery	%	> 92%	> 92%	> 92%	> 92%
Installed Power	kW	3	6	6	8

Flow rate : 3.2 to 28 m<sup>3</sup>/h per skid

Flow rate : 6.4 to 112 m<sup>3</sup>/h with 4 skids in parallel

### System Dimensions

Model	Unit	64/1-P	128/2-P	192/3-P	256/4-P
Total Installed Length	m	0.795	0.795	0.795	0.795
Total Installed Width	m	1.648	1.657	2.635	2.655
Total Installed Height	m	2.218 / 2.138*	2.224 / 2.144*	2.141 / 2.151*	2.276 / 2.194*

\* with / without legs

### Pipes Connections

Model	Unit	64/1-P	128/2-P	192/3-P	256/4-P
Feed	DN	40	50	65	80
Permeate	DN	40	50	65	80
Drain	DN	40	65	65	80
Backwash	DN	40	65	65	80

### Feed water Requirements

Parameter	Unit	Value
General	City water/ Well/ surface water or waste water <sup>(1)</sup>	
Maximum Inlet TSS <sup>(2)</sup>	mg/l	< 20
Max COD	mg/l as O <sub>2</sub>	< 60
Maximum Inlet particle size	mm	< 0.200
Maximum supply pressure	barg	3

<sup>(1)</sup> For waste or surface water, coagulation unit is needed in front

<sup>(2)</sup> Above 20ppm TSS, to be validated by the Product Manager.

### Typical Treated Water Quality

Parameter	Unit	Value
Turbidity	NTU	< 0.1

### Environmental Conditions

Parameter	Unit	Value
Maximum ambient temperature	°C	40

### Materials of Construction

Skid	Epoxy coated steel
Control Cabinet	Epoxy coated steel IP54
Pipework	uPVC

### Power Requirements

Parameter	Unit	Value
Voltage	V	380 / 415
Frequency	Hz	50
Phases	-	3