

UFLEX™

Ultrafiltration

UFLEX™ MK3 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



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

HYDREX™ CHEMICALS

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

APPLICATIONS

- Industrial process water*
- Swimming pool water
- Water recycling and reuse
- Backwash buffer tank to complete the CEB :
 - City water station above
 - 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

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 ²	64	128	192	256
Permeate Nominal Flowrate	m ³ /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 ²	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 m³/h per skid

Flow rate : 6.4 to 112 m³/h with

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 ⁽¹⁾	
Maximum Inlet TSS ⁽²⁾	mg/l	< 20
Max COD	mg/l as O ₂	< 60
Maximum Inlet particle size	mm	< 0.200
Maximum supply pressure	barg	3

⁽¹⁾ For waste or surface water, coagulation unit is needed in front

⁽²⁾ 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