

## ULTRAFILTRATION SYSTEM ADES X-LINE Series

### Model ADES-UFX-101-00

#### GENERAL INFORMATION

**ADES X-line** is the dead-end ultrafiltration product line and process where the individual XF75 membrane modules is positioned vertically in a newly developed system called X-line.

X-line is unique in the market for its serviceability, scalability and flexibility. With the X-line concept one can construct a plant with minimum design efforts and constraints.

#### ADES-UFX-101-00 system includes:

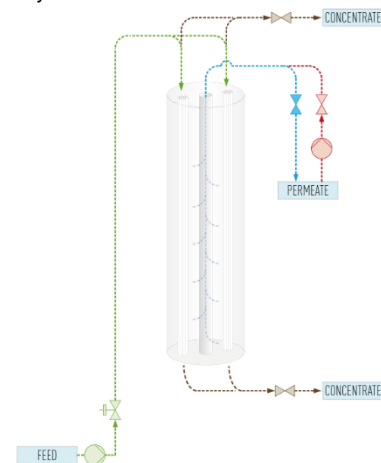
- ✓ Feed & Backwash pump with IE3, IP55 motor.
- ✓ UF modules (XF75 - Pentair).
- ✓ 200µm Amiad manual strainer.
- ✓ uPVC Sch80 piping with NSF / ANSI certificate.
- ✓ PLC & HMI 9" control panel.
- ✓ Liquid filled pressure gauges (panel mount).
- ✓ Automatic control with pneumatic butterfly valves.
- ✓ Flow indicators.
- ✓ Air compressor.
- ✓ SS400 with 3 layers epoxy coated steel skid frame.
- ✓ Connection with JIS10K Flange.
- ✓ 380 - 415V / 3Phase / 50Hz power supply.

#### Performance & Quality

- Turbidity  $\leq 0.1$  NTU.
- SDI  $\leq 3$ .
- Membrane filtration provides 99.9999% (LOG6) reduction of bacteria (*Pseudomonas diminuta*) and 99.99% (LOG 4) reduction of virus (MS2 colifages) by mechanical means. EPA Est. No. 090374-NLD-001.



\*The above photo of ADES-UFX-101-00 is for illustration purpose only.



#### System Features/ Benefits

- Pre-engineered, easy to operate, plug and play systems.
- Fully automated system.
- Optimized footprint and low cost.
- Designed to fit in a high cube container.

## Feed Water Quality<sup>1</sup>

Parameter	Unit	Value
Turbidity	NTU	0 - 5
TSS	mg/L	0 - 10
TOC	mg/L	0 - 2
Color	Hazen	0 - 10
Alkalinity	mg CaCO <sub>3</sub> /L	50 - 300
pH	-	6.5 - 8.5
Temperature	°C	0 - 40

<sup>1</sup>Please contact us if the feed water source is worse than the above standard.

## UF Membrane Specifications

Model	XF75
Effective Membrane area (m <sup>2</sup> )	75
Membrane Material	PES / PVP
Housing Material	PVC white
Potting Material	PU Resin
Filtration Flux (LMH)	Up to 90
Cleaning Chemical Resistance	Chlorine 200 ppm
	Acid pH = 2
	Base pH = 12

## Operating Process Parameter

Flow Type	Inside - Out
Filtration Type	Dead End Mode
Operating Temperature	Max 40°C (non-freezing)
Filtration TMP	0.2 - 0.8 bar
Backwash TMP	1.0 - 2.5 bar

## System and Operating Configuration

Model	ADES-UFX-101-00
No. of Membranes	1
Dimension <sup>2</sup> L x W x H (mm)	3400 x 1300 x 2500
Approx. Weight (kg)	1820
Net Production Flow (m <sup>3</sup> /h)	2 - 6

<sup>2</sup>The dimensions of the system may vary and subject to change without prior notice.

## Mechanical Connections (Flange)<sup>2</sup>

Feed Port	DN65 (2½")
Backwash Port	DN65 (2½")
Permeate Port	DN32 (1¼")
Concentrate Port	DN50 (2")
Membrane Connection	X-LINE



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