



Advantages

- ★ Removal of turbidity with constant filtrate quality
- ★ Very high bacteria and virus retention rates of 99.99 % respectively
- ★ Minimum energy and water consumption in dead-end and cross-flow operation
- ★ Simple to install and operate
- ★ Compact design ensures convenient installation in existing systems control room

Applications

- ★ Surface Water Clarification
- ★ RO Pre-Treatment
- ★ Waste Water Treatment

Ultra-Filtration (UF) is a kind of membrane filtration method. It is a filtration process which utilizes trans-membrane pressure differential to separate particles according to molecular weights. ROTEK UF membrane pore size is designed for molecular weight 50,000 Daltons(0.01um) Generally, it is used to remove high molecular-weight substances, colloidal materials, bacteria, organic and inorganic polymeric molecules. UF system requires ONLY 20% energy consumption of reverse osmosis system. Low operating pressures are sufficient to achieve high flux rates from UF membrane.

Product Description:

ROTEK UF systems are suitable for removing high turbidity peaks, particles and microbiological impurities (bacteria, viruses, parasites). Even with temporary or microbiological contamination after heavy precipitation the systems provide a constant filtrate quality – free of turbidity and pathogens. The extremely robust spiral wound membranes are operated in the dead-end or cross-flow process. Timer relay control allows adjustable in flush and filtration duration. A variety of control options ensures the highest possible degree of flexibility and operational reliability. Adapted to the untreated water quality, chemicals can be optimally added to support the cleaning process.

Specifications:

Wall Mounted Type

Model	Element No.	Flow Rate	Pipe Size	Dimension(cm)	Weight
UFD/C-1	UF4040 x 1	1,000 LPH	1/2"	L41xW32xH163	20KG
UFD/C-2	UF4040 x 2	2,000 LPH	3/4"	L55xW36xH163	40KG
UFD/C-3	UF4040 x 3	3,000 LPH	1"	L74xW36xH163	60KG

Skid Mounted Type

Model	Element No.	Flow Rate	Pipe Size	Dimension(cm)	Weight
UFD/C-4	UF8040 x 1	4,000 LPH	1"	L41xW32xH163	100KG
UFD/C-8	UF8040 x 2	8,000 LPH	1.5"	L55xW36xH163	150KG
UFD/C-12	UF8040 x 3	12,000 LPH	2"	L74xW36xH163	200KG
UFD/C-16	UF8040 x 4	16,000 LPH	2"	L41xW32xH163	250KG
UFD/C-20	UF8040 x 5	20,000 LPH	2.5"	L55xW36xH163	300KG
UFD/C-24	UF8040 x 6	24,000 LPH	2.5"	L74xW36xH163	350KG

★ UFD = Dead End Operation, UFC = Cross Flow Operation

Optional Features:

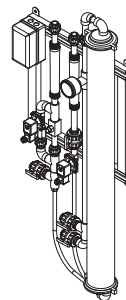
★ CIP skid

★ Complete skid with pump and prefilter

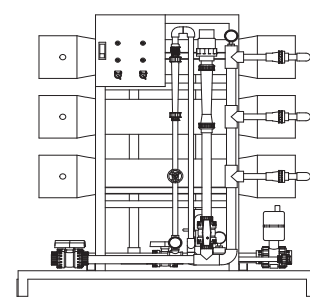
Feed Water Parameters:

Turbidity	< 120 NTU
TSS	< 100 mg/l
Temperature	< 45°C
Free Chlorine	< 50 ppm
pH	2 - 10
COD	< 60 mg/l
TOC	< 20 mg/l
Oil & Grease	< 1 ppm

Models:



Wall Mounted Type



Skid Mounted Type