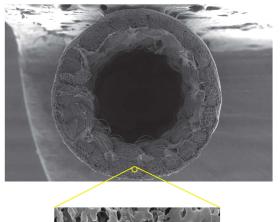
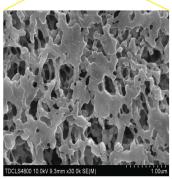


# Polyvinylidene Fluoride PVDF

### **UF Membrane Module**

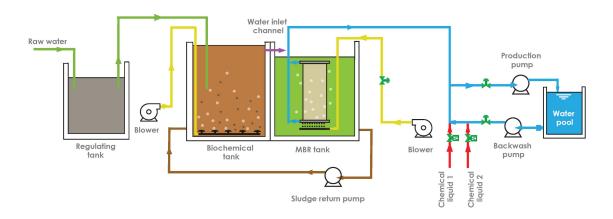






Fiber enhanced MBR membrane components from CWT's have following advantages. The hollow fiber membrane has higher mechanical properties, better pressure resistance, and higher permeability through porous structure. Moreover, the membranes have better anti-pollution and hydrophilic properties, and better separation efficiency.

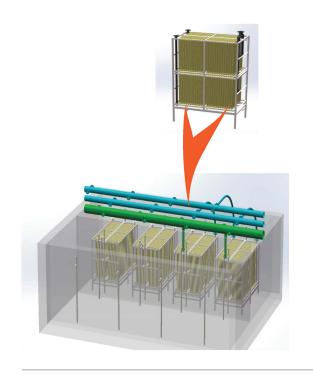
#### MBR system operation process

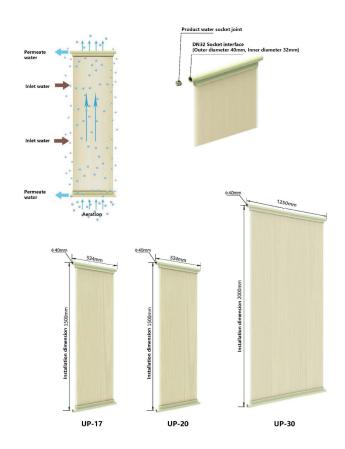


The system integrated membrane aeration and backwash system maintains high sludge concentration and organic load, effectively ensuring long-term continuous and stable operation of the MBR system.

## MBR membrane frame design of large scale project \_

- Double membrane frame design, bottom aeration
- Intermittent aeration
- Lowest footprint
- Lowest operating energy consumption





#### **Module Performance Parameters**

Module		UP-17	UP-22	UP-30
Module parameters	Material	PVDF		
	Membrane making method	H-TIPS		
	Effective membrane area (m 2 )	17	22	30
	Pore size (µm)	0.03		
	Fiber diameter ID/OD (mm)	1.1/2.0		
Module size	Length*Width*Height (mm)	534 x 46 x 1500	534 X 46 X 2000	1250×30×2000
	Connector specification	DN32 Socket interface (Outer diameter 40mm , Inner diameter 32mm)		
Module Weight	Shipping weight (kg)	13	13	20
Operation conditions	Filtration mode	Dead-end filtration or Cross flow		
	Permeate flux (L/m2·h)	filtration 15-30		
	TMP range (kPa)	80		
	Instantaneous air flow (Nm3 /h·piece )	2~6		
	Operational TMP (kPa)	10~60		
	Applicable temperature range (° C)	5~40		
	Applicable sludge concentration (mg/L)	<12000		
	Backwash pressuer(m)	<10		
Cleaning conditions	pH range of doing chemical cleaning	1~13		
	Maximum tolerance concentration of NaCLO (ppm)	5000		
Produced water performance	Produced water turbidity (NTU)	<1		

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More information on www.cwt-global.com

All information described in this document is for informational purposes only. Please note that physical properties may vary depending on certain conditions, although the operating conditions specified in this document are intended to extend product life and improve product performance, but will ultimately depend on the actual situation and cannot be guaranteed under any circumstances specific results. Unless otherwise stated, a reference to "CWT" or "company" means a legal entity that Clean Water Technology, Inc. sells to a customer. CWT<sup>TM</sup>, GEM<sup>TM</sup>, <sup>TM</sup> or <sup>®</sup> indicates a trademark, service mark or registered trademark of CWT.



