

Projection Tool for PVDF Hollow Fiber Membrane Module "HF-Series"

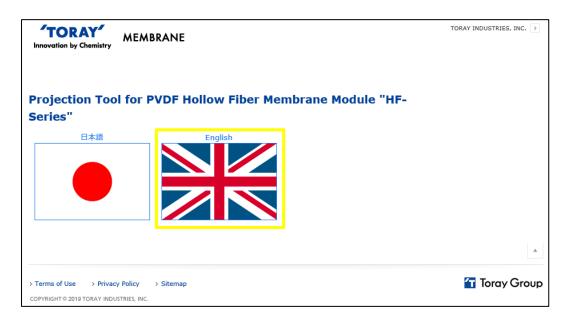
Manual

URL: https://tdsuf.toraywater.net/cgi-bin/userinfo.pl

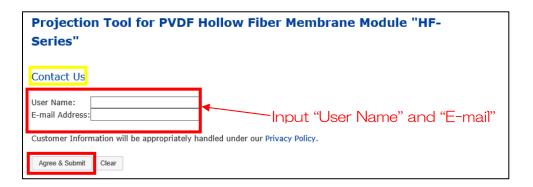


This application can calculate how many modules is required and how high flux can be applied in your project.

- 1. Please access above URL.
- 2. Please Chose English.

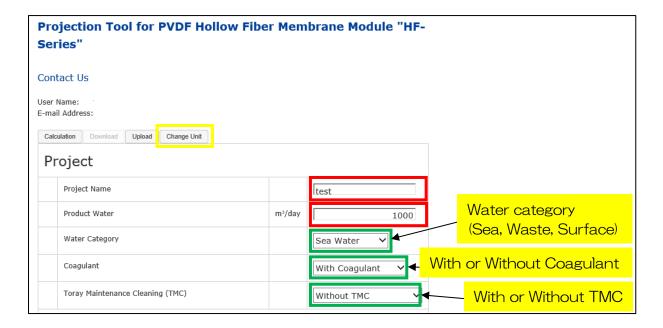


3. Please Input "User Name" and "E-mail Address". And then, click "Agree & Submit". If you have any question, please click "Contact US".





Please input about Project (Project Name & Product Water).
 Unit can be changed by clicking on "Change Unit" button.
 And select "Water category", "With or Without Coagulant" and "With or Without TMC".





5. Please input UF Feed Info (Feed water quality).

Attention 1) All of default values are "0".

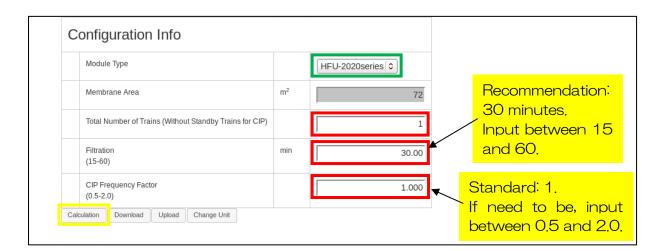
Attention 2) Please Input value of each item correctly. UF design may be varied with each input value.

Attention 3) Gray cells (e.g. "Water Cleanness") are determined automatically after calculation.

Feed nominal max. Turbidity (0-30)	NTU	0	
Feed peak max. Turbidity (0-100)	NTU	0	
Feed nominal max. TSS (0-30)	mg/L	0	
Feed peak max. TSS (0-100)	mg/L	0	
Feed max. Color	deg	0	
Feed max. Fe	mg/L	0.000	
Feed max. Mn (0-0.05)	mg/L	0.000	
Feed max. TOC	mg/L	0.000	
Feed max. COD	mg/L	0.000	
Feed max. UV260 (0-0.075)	abs/cm	0.000	
Feed max. NH ₄ ⁺	mg/L	0.000	
Feed max. Oil & Grease (0-1)	mg/L	0.000	"Water Cleanness
Feed Water min. Temp. (0-40)	deg C	0.00	is determine automatically after
Water Cleanness		Normal	calculation



6. Please select "Module Type" and input configuration info.
After input all items, please click "Calculation" button ("Calculation" button is also located in the upper region.).



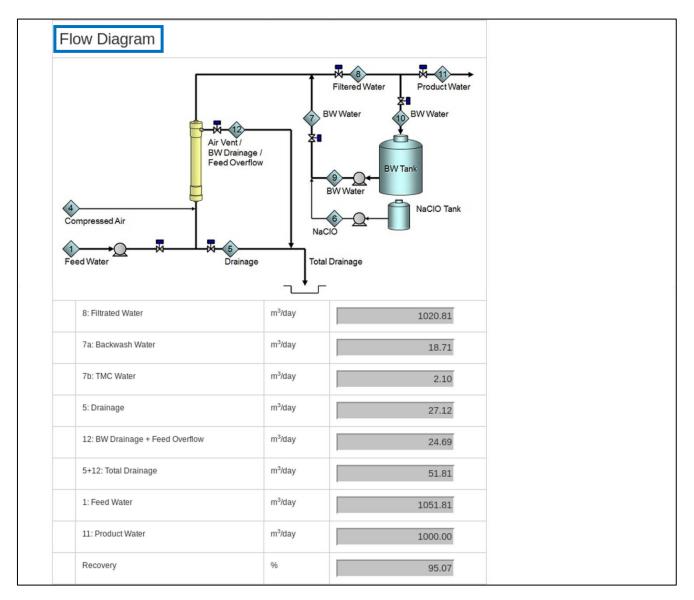


7. "Operation Conditions", "Duration", "Capacity" and "Flow Diagram" are calculated.

Operation Conditions			
Instantaneous Filtration Flux	m³/m²/day	1.344	
Filtration Flowrate per one Module	m³/day	96.755	
Backwash Flux	m³/m²/day	1.478	
Scrubbing Air Flow Rate per one Module	NL/min	100	
Backwash Chlorine	mg/L as CI ₂	0	
TMC Chlorine	mg/L as CI ₂	300	

Duration			
Filtration	min	30.00	
Backwash with Air	min	0.00	
Backwash	min	0.50	
Air Scrubbing	min	0.50	
Drain	min	0.75	
Refill	min	0.91	
Control Loss	min	0.75	
Total	min	33.41	
TMC Time	min	30.00	
TMC Pre-backwash	min	0.35	
TMC Backwash	min	1.02	
Filtration Cycle	cycles/day	42.20	
CIP Frequency	times/year	6	





★If you get the error message, please recheck input items. If input of feed water quality exceeds our design guideline, the calculation is not performed (See drawing below). Some water category has more strict quality limits. For more detail, please contact us.

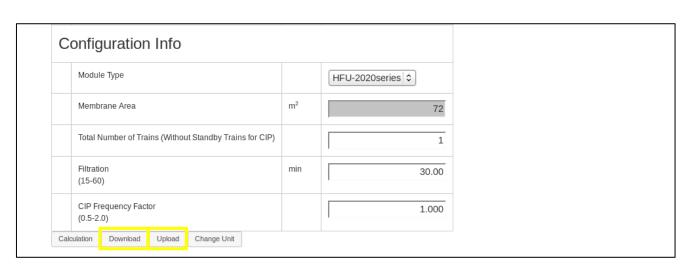


UF Feed Info			In case of Mn				
Feed max. Mn (0-0.05)	mg/L	0.1		centratic design g			



8. The results can be saved by clicking "Download" button.
The "Download" buttons appear when you click "Calculation" button.
The saved results can be reused by clicking "Upload" button.





This projection software manual is subject to revision from time to time. Unauthorized use or reproduction of this manual is forbidden.

If you should require any further information, please don't hesitate to contact us.

Toray Industries, Inc. Head Office

UF & MBR Membrane Products Dept., Water Treatment Division

1-1, Nihonbashi-Muromachi 2-chome, Chuo-ku,

Tokyo 103-8666, Japan

Tel: +81-3-3245-4557 Fax: +81-3-3245-4913

http://www.toray.com/contact/con e090.html

http://www.toraywater.com/products/mf/index.html



