

TORAY Membrane Module Specification Sheet

- Model : Bench Scale PVDF Hollow Fiber UF Membrane Module HFU-LAB 018

Table 1. Membrane Properties

Membrane Material	PVDF (Polyvinylidene fluoride)
Nominal Molecular Weight Cut Off	150,000

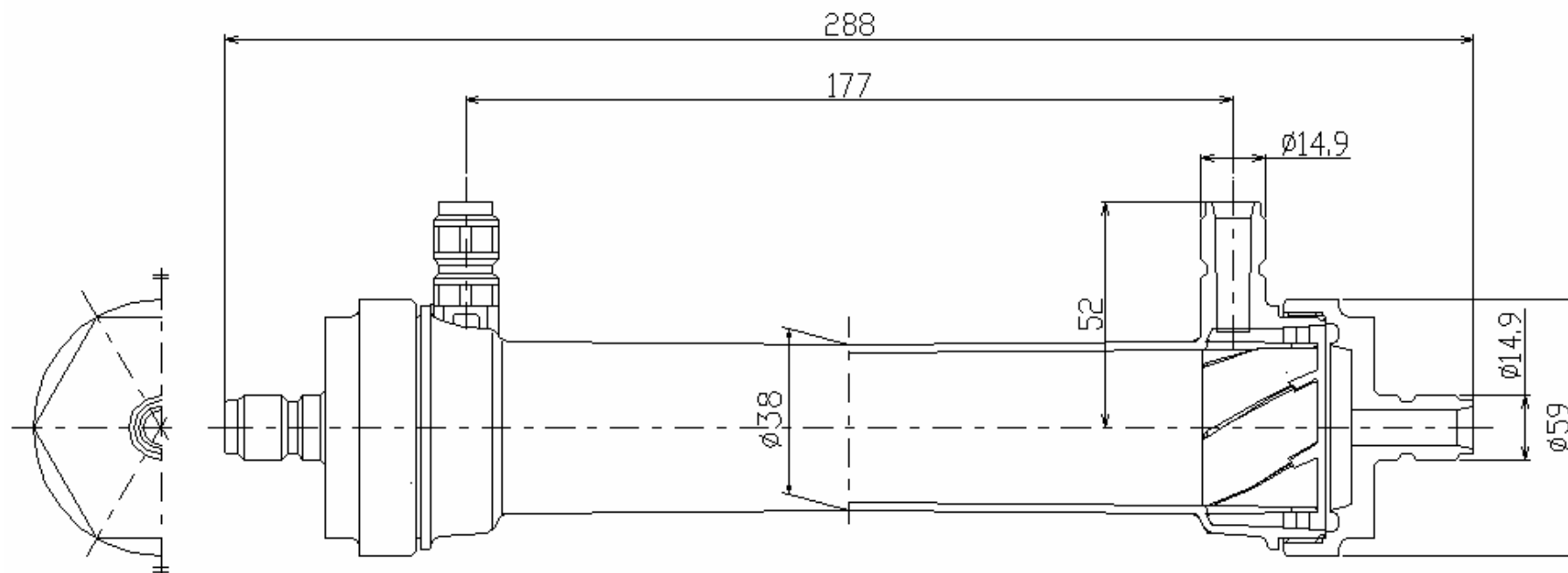
Table 2. Cleaning Limits

Cleaning pH Range	0 – 12
Maximum Cleaning Temperature	40 degree C (104 degree F)
Maximum concentration of NaClO cleaning as Cl ₂	3,000 mg/L
Maximum NaClO exposure (lifetime contact time) as Cl ₂	1,000,000 mg/L hours
Maximum acid exposure contact time	1,000 hours (pH≥0, Temp. < 25 degree C (77 degree F))
Maximum alkali exposure contact time	1,000 hours (pH≤12, Temp. < 25 degree C (77 degree F))

Table 3. Module Specifications

Module Type		Table 1: Module Specifications	
Membrane Surface Area (Outer Surface)		HFU-LAB 018	
		0.18 m ²	
Dimensions	Diameter	38 mm	
	Length	288 mm	
Weight	Full of water	0.4 Kg	
	Drained	0.3 Kg	
Materials	Housing	Polycarbonate	
	Potting Material	Polyurethane	
Operating Conditions	Filtration Method	Outside to inside, dead end	
	Maximum Inlet Pressure	100 kPa	
	Maximum Trans Membrane Pressure	100 kPa	
	Typical Operating Trans-Membrane Pressure	100 < kPa	
	Maximum Operating Temperature	40 degree C (104 degree F)	
	Operating pH Range	1 – 10	

Note) This specification sheet will be updated by TORAY from time to time.



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Module Configuration