



X-FLOW COMPACT 75G - NON CODED ULTRAFILTRATION MEMBRANE

MEMBRANE ELEMENT DATASHEET

8 INCH 5.2 MM Compact 75G - Non Coded ARTICLE CODE: 8181KQB990

APPLICATIONS

- · Pre-treatment RO and NF
- · Surface water
- · Drinking and process water production
- · Recovery of sandfilter backwash water
- · Effluent treatment
- · Membrane bioreactor
- Wastewater treatment
- Treatment of oil-in-water emulsions

GENERAL SOLVENT RESISTANCE

Since the resistance of the membrane to solvents strongly depends on the actual process conditions, the indications given below should only be considered as guideline.

Acids, pH >2	+
Bases, pH <11	+
Organic esters, ketones,	
ethers	_
Aliphatic alcohols	++
Aliphatic hydrocarbons	++
Halogenated hydrocarbons	3 ++
Aromatic hydrocarbons	+
Polar organic solvents	_
Oils	++

Sodium Hypochlorite

- Typical 200 ppm, at ≤ $40 \,^{\circ}$ C at ≥ pH 10
- Maximum 500 ppm
- 250.000 ppm hours cumulative at 30 $^{\circ}$ C; \geq pH 10

CLEANING CHEMICAL RESISTANCE

Depending on the nature of the feed solution the following cleaning agents can be chosen:

NaOCI (active chlorine)	500 ppm max.
H202	1000 ppm max.
NaOH	pH ≤ 11
Nitric acid	pH ≥ 1
Phosphoric acid	pH ≥ 1
EDTA	pH ≤ 11
Citric acid	

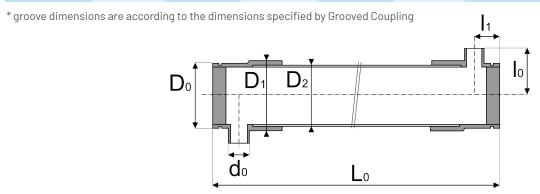
Citric acid

Enzymatic compounds

It is recommended to keep the pH between 1 and 11 and not to exceed a temperature of 40 °C during cleaning and/or disinfection If those standard cleaning techniques fail to remove the foulants, more concentrated cleaning solutions can be tried. Please contact X-Flow for recommendations. It has to be stressed, however, that no warranty can be given on the efficiency of any cleaning nor on the membrane performance after such cleaning attempts.

ELEMENT SPECIFICATIONS

Hydraulic membrane diameter[mm]	Membrane area[m²]	Feed connection D ₀ (*)[mm]	Module length L ₀ [mm](±1)	Saddle diameter D ₁ [mm]	Module diameter D ₂ [mm]	Permeate con- nection d ₀ (*) [mm]	Permeate length I ₀ [mm](±1)	Permeate position I ₁ [mm](±1)
5.2	33	220.0	3000	250	208	73.0	165	90



X-FLOW COMPACT 75G - NON CODED ULTRAFILTRATION MEMBRANE

MEMBRANE FLEMENT DATASHEET

OPERATING SPECIFICATIONS

Max. feed pressure	eed permeate membrane		Max. temp.	
[kPa	[kPa]	[kPa]	[°C]	
1250	1250	-100+500	70	

- Backwash water should be free of particulates and should be of permeate quality or better
- Backwash pumps should preferably be made of non-corroding materials, e.g., plastic or stainless steel. If compressed air is used to pressurize the backwash water, do not allow a two-phase air/water mixture to enter the element

 To avoid mechanical damage, do not subject the membrane module or element to sudden temperature changes, particularly decreasings. Do not exceed 70
°C process temperature. Bring the module or element back to ambient operating temperature slowly (typical value 3 °C/min). Failure to adhere to this guideline can result in irreparable damage

MEMBRANE CHARACTERISTICS

- Hydrophilic tubular polyvinylidene fluoride membrane cast on a polyester carrier
- Structure asymmetric
- Mean pore size of 30 nm
- Developed for use in large-scale processes for water purification
- High performance and a very good antifouling behaviour
- Membrane elements can be backflushed for efficient membrane cleaning resulting in a higher average product flux

TECHNICAL SPECIFICATIONS

Weight Specifications

Dry weight of membrane element ca. 45 kg [100 lbs]

Membrane element filled with water ca. 110 kg [242 lbs]

Materials of Construction

Housing Glass fibre reinforced

epoxy, drinking water quality

Potting EP resin

Membrane - Material composed of

polyvinylidene fluoride - Carrier is a composite polyester woven/non

woven

Process Characteristics (water, 20°C)

Hydraulic membrane diameter	Crossflow flow rate (*)	Pressure-drop across module (laminar flow)(***)	Pressure-drop across module (turbulent flow)(**)	
[mm]	[m³/h]	[kPa]	[kPa]	
5.2	53.5 x v	1.2 × L ₀ × v	$3.6 \times L_0 \times V^{1.75}$	

(*) superficial velocity (v) in m/s (**) module length (L₀) in m

X-FLOW COMPACT 75G - NON CODED ULTRAFILTRATION MEMBRANE

MEMBRANE ELEMENT DATASHEET

STORAGE

New membrane modules can be stored as supplied.

Membrane modules should be stored in a dry, normally ventilated place, away from sources of heat, ignition and direct sunlight. Store between 0 and 40 $^{\circ}$ C.

The membrane modules should not be subjected to any freezing temperatures. After use, UF membranes need to be stored wet at all times.

To avoid biological growth during shutdowns or storage, wet membranes should be treated with a compatible biocide. The membrane is compatible with many common disinfecting agents or biocidal preservatives. For short-term shutdowns, a daily flush with permeate quality water containing up to 2.0 ppm free available chlorine for 30 to 60 minutes may be adequate for bacteria control.

In case of long-term storage, membranes should be cleaned before the disinfection step is carried out. For disinfection, a 1% sodium metabisulfite solution can be used. In either situation, modules should be stored hydraulically filled.



X-FLOW BV

P.O. BOX 739, 7500 AS ENSCHEDE, NETHERLANDS WWW.X-FLOW.COM

Note: The information and data contained in this document are based on our general experience and are believed to be correct. They are given in good faith and are intended to provide a guideline for the selection and use of our products. Since the conditions under which our products may be used are beyond our control, this information does not imply any guarantee of final product performance and we cannot accept any liability with respect to the use of our products. The quality of our products is guaranteed under our conditions of sale. Existing intellectual property rights must be observed.

DS COMPACT 75G - NON CODED EN 0519 © 2019 Pentair. All Rights Reserved.



Headquarter: 54/18 Bui Quang La, Ward 12, Go Vap District, HCMC, Vietnam **Office:** 77 DHT10B, Dong Hung Thuan Ward, District 12, HCMC, Vietnam

Phone: (028) 6258 5368 - (028) 6291 9568 Email: info@atswatertechnology.com Website: www.atswatertechnology.com