

Dairy Ultra UF 3838C

Sanitary Ultrafiltration

The Dairy Ultra UF 3838C ultrafiltration membrane elements are exclusively used for food related processes requiring stringent sanitary procedures. Typical applications include whey and milk fractionation where the Dairy Ultra UF membrane displays exceptional process flux and protein retention while being easily cleanable. The Dairy Ultra UF membrane also has great performance in whey applications.

Element features include:

- High protein rejection
- High process flux
- Durable membrane
- Our patented Durasan* outerwrap,
- Polysulfone parts and standard feed spacers

They may be used as intended in full compliance with the Federal Food, Drug, and Cosmetic Act and all applicable membrane food contact applications. The materials of construction conform to established guidelines as described in the Code of Federal Regulations, Vol. 21.

Table 1: Element Specification

Membrane	Polyethersulfone (PES)
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Model	Spacer Mil (mm)	Active Area ft ² (m ²)	Part Number
DAIRY ULTRA UF 3838C-30D	30 (0.76)	78 (7.25)	1268732
DAIRY ULTRA UF 3838C-50D	50 (1.27)	51 (4.74)	1268736
DAIRY ULTRA UF 3838C-65D	65 (1.65)	44 (4.08)	1268737

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Table 2: Pressure Drops

Maximum Pressure Drop	Elements per Pressure Vessel				
	1	2	3	4	5
ΔP - psig (kPa)	15 (103)	30 (206)	45 (309)	60 (412)	60 (412)

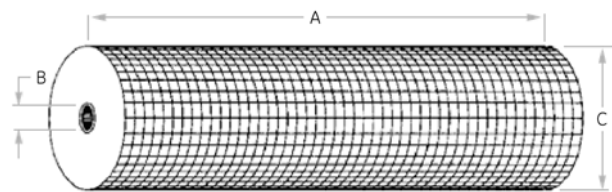


Figure 1: Element Dimensions Diagram

Table 3: Dimensions and Weight

Model	Dimensions, inches (cm)			Dry Boxed Weight lbs (kg)
	A	B	C	
DAIRY ULTRA UF 3838C-30D	38.00 (96.5)	0.833 (2.12)	3.79 (9.63)	12 (5.4)
DAIRY ULTRA UF 3838C-50D	38.00 (96.5)	0.833 (2.12)	3.79 (9.63)	12 (5.4)
DAIRY ULTRA UF 3838C-65D	38.00 (96.5)	0.833 (2.12)	3.79 (9.63)	12 (5.4)

Table 4: Operating and CIP Parameters

Typical Pressure	80-135 psig (555-931 kPa)
Typical Process Flux	7-20 GFD (12-34 LMH)
Clean Water Flux (CWF) ¹	45-55 GFD (76-93 LMH) @ 20 psig and 50°C
Maximum Pressure	150 psig (1,034 kPa)
Maximum Temperature	122°F (50°C)
Recommended pH	Operating Range 3.0-10.0, Cleaning Range 2.0-11.5
Chlorine Tolerance	5,000+ ppm-days 180 ppm for 20 min MAXIMUM during chlorine-caustic cycle

¹Clean water flux (CWF) is the rate of water permeability through the membrane after cleaning (CIP) at reproducible temperature and pressure. It is important to monitor CWF after each cleaning cycle to determine if the system is being cleaned effectively. CWF can vary ±25%.