

Dairy Ultra UF 4238C

Sanitary Ultrafiltration

The Dairy Ultra UF 4238C 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)		
Model	Spacer Mil (mm)	Active Area ft ² (m ²)	Part Number
DAIRY ULTRA UF 4238C-30D	30 (0.76)	100 (9.29)	3001162
DAIRY ULTRA UF 4238C-50D	50 (1.27)	75 (6.97)	3001161

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)

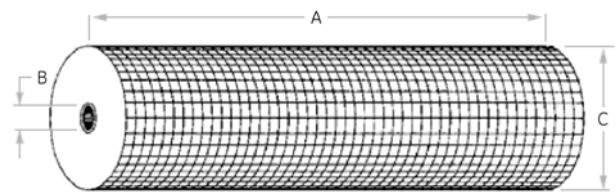


Figure 1: Element Dimensions Diagram

Table 3: Dimensions and Weight

Model	Dimensions, inches (cm)			Dry Boxed Weight lbs (kg)
	A	B	C	
DAIRY ULTRA UF 4238C-30D	38.00 (96.5)	0.833 (2.12)	4.29 (10.9)	12 (5.4)
DAIRY ULTRA UF 4238C-50D	38.00 (96.5)	0.833 (2.12)	4.29 (10.9)	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%.

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Find a contact near you by visiting ge.com/water or e-mailing custhelp@ge.com.

Global Headquarters
Trevose, PA
+1-215-355-3300

Americas
Watertown, MA
+1-617-926-2500

Europe/Middle East/Africa
Heverlee, Belgium
+32-16-40-20-00

Asia/Pacific
Shanghai, China
+86 (0) 411-8366-6489