

PT8038C Durasan*

Dairy Processing Sanitary Ultrafiltration

The P-Series family of polyethersulfone ultrafiltration membrane elements are characterized by a 5,000 molecular weight cut-off.

The PT8038C Durasan Elements are typically used for whey protein concentrate up to 28% whey solids.

The PT8038C Durasan Elements feature a Durasan patented outerwrap, a selection of feed spacers, and polysulfone parts.

Table 1: Element Specification

Model	Spacer Mil (mm)	Active Area ft ² (m ²)	Part Number
PT8038C-50D	50 (1.27)	258 (24.0)	1230690
PT8038C-65D	65 (1.65)	198 (18.4)	1230833

Table 2: Pressure Drops

Maximum Pressure Drop	Elements per Pressure Vessel				
	1	2	3	4	5
ΔP - psig (kPa)	15 (103)	30 (207)	45 (310)	60 (414)	60 (414)

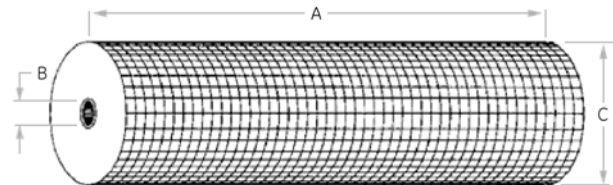


Figure 1: Element Dimensions Diagram

Table 3: Dimensions and Weight

Model	Dimensions, inches (cm)			Dry Boxed Weight lbs (kg)
	A	B	C	
PT8038C-50D	38.00 (96.5)	1.125 (2.857)	7.91 (20.1) ¹	32 (14.53)
PT8038C-65D	38.00 (96.5)	1.125 (2.857)	7.91 (20.1) ¹	32 (14.53)

¹ The element diameter (dimension C) is designed for optimum performance in GE pressure vessels. Other pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity.

Table 4: Operating and Design Parameters

Membrane	Polyethersulfone (PES)
Typical Operating Pressure	80-135 psig (555-931 kPa)
Typical Operating Process Flux	3-20 GFD (5-34 LMH)
Clean Water Flux (CWF) ²	59 GFD (100 LMH) @ 30 psig and 50°C
Maximum Pressure	200 psig (1,379 kPa)
Maximum Temperature	122°F (50°C)
Recommended pH	Operating Range 3.0-10.0, Cleaning Range 2.0-11.5
Chlorine Tolerance	5000+ ppm-days

²Clean 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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FS1213EN Mar-08