

QUICK SELECTION GUIDE:

NatriFlo[™] HD-Q Membrane Adsorbers

With a revolutionary three-dimensional macroporous hydrogel structure that provides a High Density of binding sites and rapid mass transfer, Natrix HD Membranes deliver binding capacity that exceeds resinbased columns with fast flow rates typical of membrane adsorbers. When packed into the NatriFlo HD-Q Membrane Adsorbers, this combination of performance and speed enables low risk, scalable polishing solutions for efficient purification of biologics.

3 Reasons To Choose NatriFlo HD-Q

Reason 1. High-Capacity Protein Purification

NatriFlo HD-Q Adsorbers generate the best-in-class HCP, DNA, endotoxin and virus clearance, even with the most challenging process streams.

Reason 2. Superior Operating Flexibility

NatriFlo HD-Q Adsorbers maintain high performance over a wide range of conductivity and pH using common anion exchange buffers – even phosphate, known to be challenging for membrane adsorbers.

Reason 3. Simple and Cost-Effective Operation

NatriFlo HD-Q Adsorbers are "plug-and-flow", work with existing chromatography systems and reduce labor cost, foot print, and buffer use.

Download the **NatriFlo HD-Q Data File** for detailed performance information generated by some of the world's top chromatographers. www.natrixseparations.com/proof

3 Steps for Success with NatriFlo HD-Q

STEP 1: Start screening the buffer conditions and optimizing the load parameters using the Recon family. These conditions are essential to achieve targeted purification performance.

STEP 2: Choose a product that accommodates the specific volume and capacity required using the Product Selection Table.

STEP 3: Experience the speed, high performance, and simplicity of NatriFlo HD-Q.

The process conditions for a specific antibody (or other biologic) are dependent on the optimum parameters that need to be defined. To determine performance and the correct size device, please refer to NatriFlo HD-Q data file and NatriFlo HD-Q method development guide.



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Product Selection Table

Product Name	Recon Mini	Recon	Pilot	Process 150	Process 300	Process 450	Process 600
Product number	NXF-01	NXF-02	NXF-10	NXF-20	NXF-30	NXF-40	NXF-50
Quantity/ pack	10	5	1	1	1	1	1
Nominal Membrane volume (mL) 1	0.2	0.8	15	115	230	345	460
Membrane Configuration	Flat sheet		Pleated				
Membrane bed thickness (mm)	0.5						
Total BSA binding capacity (g)	0.04	0.16	3	23	46	69	92
mAb nominal polishing capacity (g) ²	2	8	150	1150	2300	3450	4600
Flow rate range ³	1 - 5 mL/min	4 - 20 mL/min	75 - 375 mL/min	0.6 - 3 L/min	1 - 6 L/min	1.5 - 8.5 L/min	2 - 10 L/min
Intended use	Scaled down laboratory model to screen and fine-tune parameters.	Intermediate scale adsorbers, intended to verify and adjust operating parameters. Pilot may be used for small-scale GMP manufacturing.		Process scale adsorber designed for full-scale GMP manufacturing of proteins.			

¹ Contact Natrix Separations if larger HD-Q membrane volumes are required to meet specific manufacturing needs.

² Based on typical process streams and loading up to 10 kg mAb/L-membrane. Loading capacity is not limited to 10 kg/L and depends on the total impurity content.

³ Typical flow rate range is based on 5-25 membrane volumes/minute. Specific flow rates can be determined to accommodate process requirements (e.g. maximum back pressure, improved process time, etc.).