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The orange ring on the adsorbers in this box indicates the HD-Q membrane chemistry.

## ORDERING & TECHNICAL SUPPORT

For ordering information or technical support, please contact your local distributor. Distributor contact information can be found at:

[www.natrixseparations.com/contact](http://www.natrixseparations.com/contact)



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# QUICK START GUIDE

## NatriFlo™ HD-Q

### Recon & Recon Mini

#### Flow-Through Membrane Adsorbers



## A. EXPERIMENTAL PARAMETERS

### Typical Buffers

Equilibration:	25 mM Tris-HCl pH 8.1
Stripping / Cleaning:	25 mM Tris-HCl + 1 M NaCl pH 8.1
Sanitization (Optional):	1 M NaOH containing 2 M NaCl

### Where to Start

RECON MINI	RECON
<b>Flow Rate</b> 2 mL/min	<b>Flow Rate</b> 8 mL/min
<b>Typical mAb Capacity</b> 2 g	<b>Typical mAb Capacity</b> 8 g

### Sample Preparation

- Adjust pH and conductivity before loading
- Ensure solution has enough buffering capacity at operating pH
- Microfilter before loading to avoid excessive pressure increase during operation

### Key Technical Information

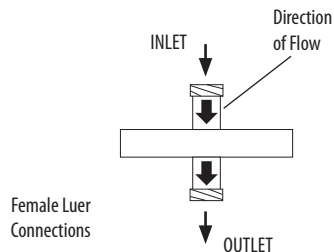
	Recon Mini	Recon
Product Code	NXF-01	NXF-02
Membrane Volume (MV)	0.2 mL	0.8 mL
Flow Rate Range (5-25 MV/min)	1-5 mL/min	4-20 mL/min
Max Pressure	75 psi / 5 bar	90 psi / 6 bar

## B. SYSTEM SET-UP

### Connect to System

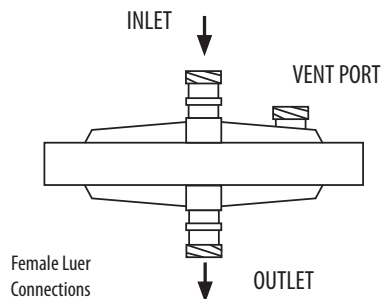
Connect the membrane adsorber to the chromatography system (see illustrations below)

#### Recon Mini



**Note:** for HD-Q Recon Mini adsorbers only, a system backpressure of at least 20 psi is required for optimum performance.

#### Recon



Adapters may be required to connect to the intended chromatography system which can be configured with M6 or 10-32 threaded connectors.

## C. OPERATION

### Prime

1. Flow equilibration buffer at 10 MV/min with the outlet facing up
2. Gently tap or shake to dislodge trapped air
3. For Recon adsorbers only: the vent port can be used to remove trapped air
4. Once priming is complete, the adsorber can be operated in any orientation

### Equilibration

- Flow approximately 50 MV equilibration buffer at 10 MV/min
- Ensure effluent pH and conductivity within specified range

### Load

- Load sample at desired flow rate up to target capacity
- Collect fractions at pre-determined intervals up to max. load for analysis (also consider wash and strip fractions for characterization)

### Wash

- Flow 10 - 40 MV of equilibration buffer to complete sample recovery

### Strip

- Strip using 1-2 M NaCl in equilibration buffer if bound impurities need to be eluted (eg. to understand mass balance and characteristics of impurities)