

PACKAGE CONTENTS

- 5 NatriFlo HD-Q Recon membrane adsorbers (NXF-01) or
- 10 NatriFlo HD-Q Recon Mini membrane adsorbers (NXF-02)
- NatriFlo HD-Q Recon & Recon Mini Instruction Guide
- NatriFlo HD-Q Recon & Recon Mini Quick Start Guide

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



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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
Flow Rate 2 mL/min	Flow Rate 8 mL/min
Typical mAb Capacity 2 g	Typical mAb Capacity 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

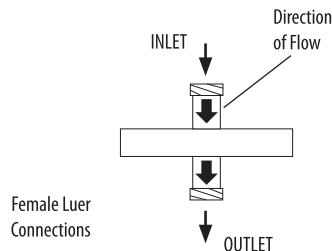
	Recon Mini	Recon
Product Code	NXF-01	NXF-02
Membrane Volume (MV)	0.2 mL	0.8 mL
Flow Rate Range (5-25 MV/min)	1-5 mL/min	4-20 mL/min
Max Pressure	75 psi / 5 bar	90 psi / 6 bar

B. SYSTEM SET-UP

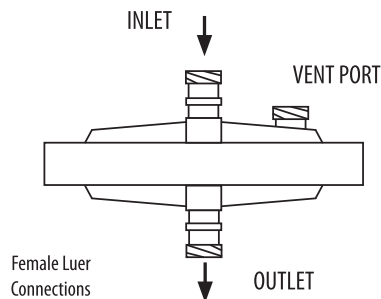
Connect to System

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

Recon Mini



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)