

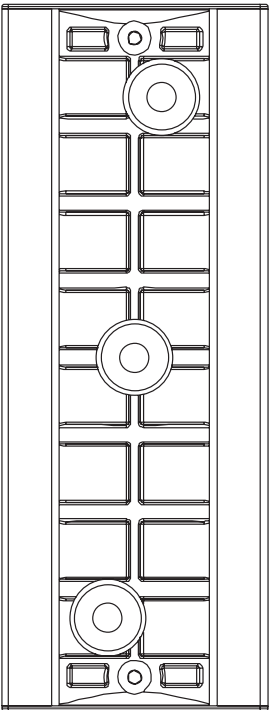
Kvick Lab SCU

1. Learn about the SCU

Membrane surface area	0.11 m² (1.2 ft²)
Housing	Polysulfone
Gaskets	Silicone
Membrane	Polyethersulfone
Membrane backing	Polypropylene copolymer
Membrane screen	Polypropylene

At room temperature, resistant to:

- Sodium hydroxide (1 M)
- Sodium hydroxide (0.5 M) and 300 ppm of sodium hypochlorite
- Sulfuric acid (0.5 M)
- Sodium hypochlorite (500 ppm)
- Peracetic acid (3%)
- Ethanol (40%)
- Isopropyl alcohol (20%)
- Many other chemical solutions

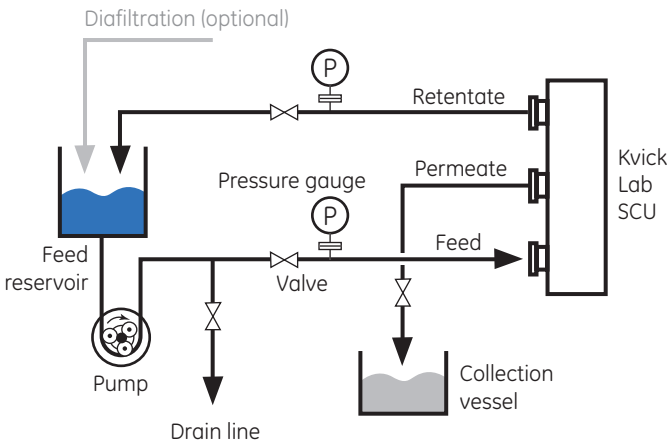


2. Open the SCU bag safely

The SCU contains up to 0.2 N NaOH and 22% glycerin in solution.

- Wear safety glasses, gloves, and lab coat.
- Open the plastic bag.
- Hold the SCU over a sink, remove silicone stoppers from the ports, and allow any excess storage solution to drain from the SCU before use.

3. Learn the system flow



www.gehealthcare.com

Global Headquarters GE Healthcare
Little Chalfont
Buckinghamshire, U.K. HP7 9NA

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Amersham Biosciences AB, a General Electric Company going to market as GE Healthcare.

GE Healthcare Amersham Biosciences AB
Björkgatan 30, 751 84 Uppsala, Sweden

GE Healthcare Amersham Biosciences Europe GmbH
Munzinger Strasse 9, D-79111 Freiburg, Germany

GE Healthcare Amersham Biosciences UK Ltd
Amersham Place, Little Chalfont, Buckinghamshire, HP7 9NA, UK

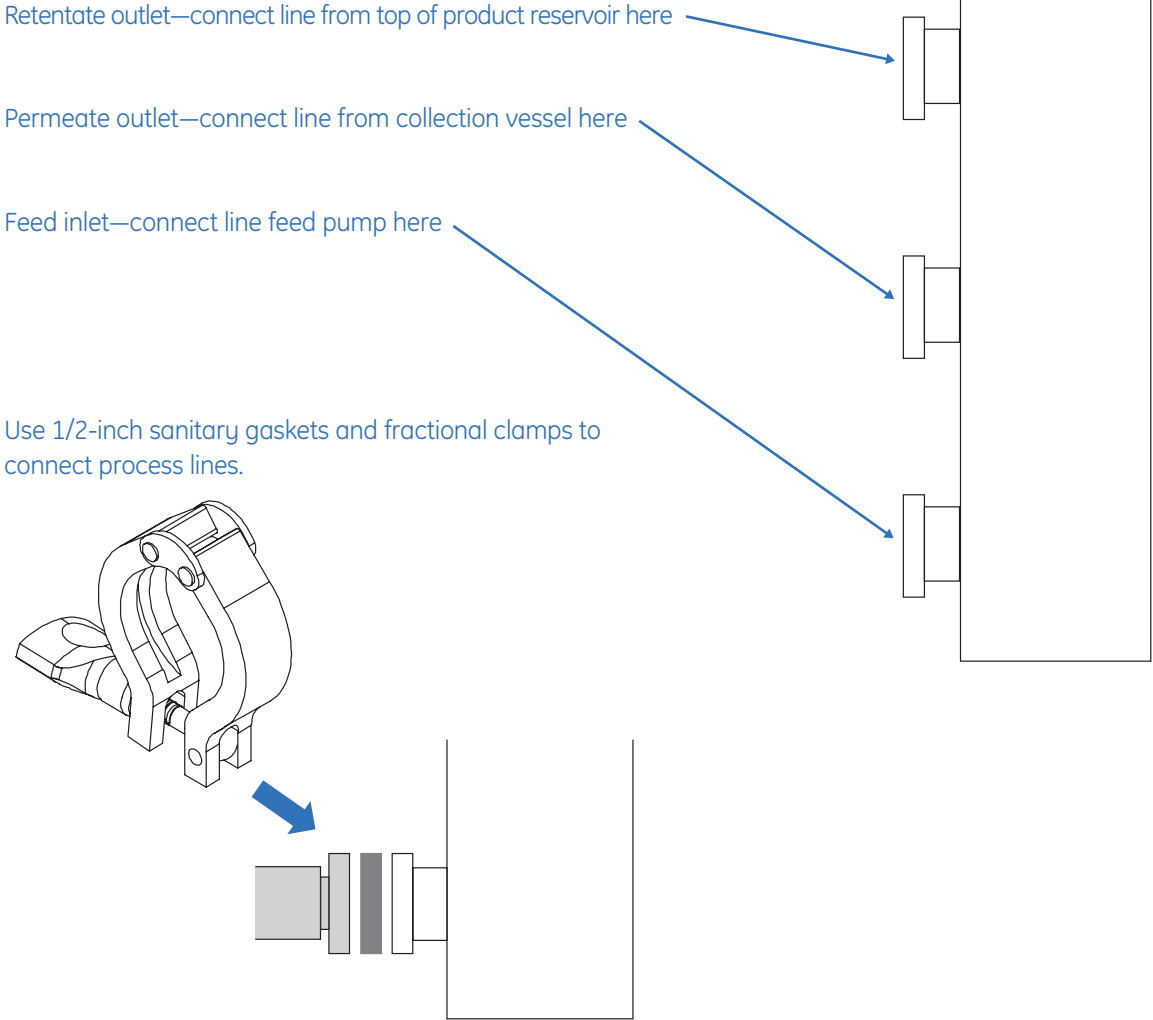
GE Healthcare Amersham Biosciences Corp
800 Centennial Avenue, P.O. Box 1327, Piscataway, NJ 08855-1327, USA

GE Healthcare Amersham Biosciences KK
Sanken Bldg. 3-25-1, Hyakunincho, Shinjuku-ku, Tokyo 169-0073, Japan

GE Healthcare Amersham Biosciences Ltd
13/F, Tower 1, Ever Gain Plaza, 88 Container Port Road Kwai Chung, New Territories, HONG KONG

Asia Pacific Tel: +852 2811 8693 Fax: +852 2811 5251 • Australasia Tel: + 61 2 9899 0999 Fax: +61 2 9899 7511 • Austria Tel: 01/57606-1619 Fax: 01/57606-1627 • Belgium Tel: 0800 73 888 Fax: 03 272 1637 • Canada Tel: 800 463 5800 Fax: 800 567 1008 • Central, East, & South East Europe Tel: +43 1 982 3826 Fax: +43 1 985 8327 • Denmark Tel: 45 16 2400 Fax: 45 16 2424 • Finland & Baltics Tel: +358 (0)9 512 39 40 Fax: +358 (0)9 512 39 439 • France Tel: 01 69 35 67 00 Fax: 01 69 41 96 77 • Germany Tel: 0761/4903-490 Fax: 0761/4903-405 • Italy Tel: 02 27322 1 Fax: 02 27302 212 • Japan Tel: +81 3 5331 9336 Fax: +81 3 5331 9370 • Latin America Tel: +55 11 3933 7300 Fax: +55 11 3933 7304 • Middle East & Africa Tel: +30 210 9600 687 Fax: +30 210 9600 693 • Netherlands Tel: 0165 580 410 Fax: 0165 580 401 • Norway Tel: 815 65 555 Fax: 815 65 666 • Portugal Tel: 21 417 7035 Fax: 21 417 3184 • Russia & other C.I.S. & N.I.S Tel: +7 (095) 232 0250, 956 1137 Fax: +7 (095) 230 6377 • South East Asia Tel: 60 3 8024 2080 Fax: 60 3 8024 2090 • Spain Tel: 93 594 49 50 Fax: 93 594 49 55 • Sweden Tel: 018 612 1900 Fax: 018 612 1910 • Switzerland Tel: 0848 8028 12 Fax: 0848 8028 13 • UK Tel: 0800 616928 Fax: 0800 616927 • USA Tel: 800 526 3593 Fax: 877 295 8102

4. Connect the SCU



5. Learn the operating specifications

Typical cross flow rate:
600 to 800 ml/min/SCU

Typical transmembrane pressure:
1.7 to 2.4 barg (25 to 35 psig)

TRANSMEMBRANE PRESSURE =
 $\{(FEED PRESS. + RETENTATE PRESS.) \div 2\} - PERMEATE PRESSURE^1$

Max. operating pressure:
3 barg (45 psig)

Max. operating temperature:
50°C

Recommended pH operating range:
2 to 13

SCU non-recoverable (drained) volume:
less than 20 ml

SCU minimum working volume:
50 ml

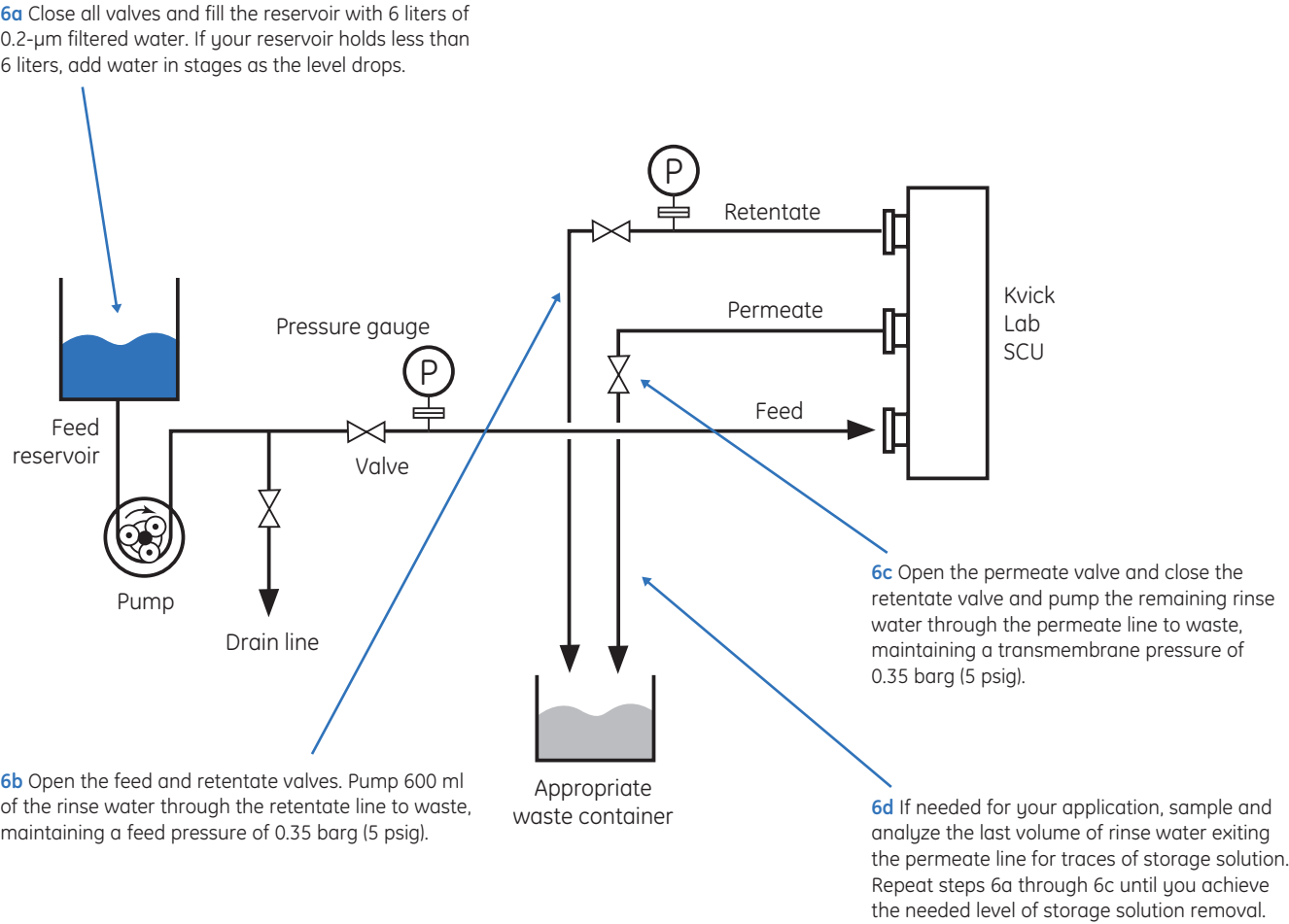
¹ Permeate pressure is typically 0 barg (0 psig).

 CAUTION

If you are new to or have no training in cross flow filtration, you should read and follow the instructions in the auxiliary user manual entitled, *Using the Kwick Lab Self-Contained Unit*, before using the SCU. The auxiliary user manual is available on our Web site and from your local GE Healthcare representative.

6. Rinse the SCU

Before using a new Kwick™ Lab SCU, you must rinse it with clean (0.2-µm filtered) water to remove the storage solution. In addition, some applications require that you complete other preparatory steps such as measuring water flux, testing the integrity of the cassette, sanitizing the cassette, and conditioning the cross flow system with buffer. See the supplemental user manual for additional guidance.



Getting help

If you are new to cross flow filtration and require additional information, read the auxiliary user manual entitled, *Using the Kwick Lab Self-Contained Unit*. This user manual is available on our Web site and from your local GE Healthcare representative.

You can access technical information and learn more about Kwick Lab products by visiting our Web site, www.gehealthcare.com. In the USA, you can contact our customer and technical support teams by calling 1-800-526-3593. Outside of the USA, you can contact your local GE Healthcare representative using the telephone numbers listed at the back of the Kwick Lab system user

manual. You can also receive customer and technical support by emailing us at these addresses:

- Technical Support:
ts-us@gehealthcare.com
- Customer Service:
cs-us@gehealthcare.com
- Europe Customer Service:
cust.servde@gehealthcare.com