Recommended Circuit Components

1. Antimicrobial circuit filter (e.g. Vyaire 1853)

2. Oxygen feed port (e.g. CareFusion 004204)

3. Ventilation tubing (e.g. Fisher Paykel RT 219 or Philips Respironics 1073228)
   a. Standard “leak-port” tubing is preferable
   b. If no exhalation ports, need part 6

4. Inline heated humidifier (if available, e.g. Fisher Paykel MR850)

5. Exhalation port device (may be built into ventilation tubing) with high resistance and attached filter (e.g. Fisher Paykel RT 319)

6. Antimicrobial circuit filter (e.g. Filta-Guard 1944000)

7. Gas sampling adaptor for CO2 and flow monitoring (e.g. D-Lite Spirometry Kit 889560)

8. HME (inline moisture exchanger) if inline heated humidifier is unavailable (e.g. Covidien 353US908)
ASSEMBLY

Step 1: Connect antimicrobial filter to VPAP ST device.
- If low on filters, skip to Step 2 and prioritize the exhalation port viral filter in Step 4

Step 2: Connect inline O2 feed port at VPAP ST outlet

Step 3: Connect VPAP ST tubing circuit
- Standard circuit with exhalation port preferred (e.g. Fisher Paykel RT 219 or Philips 1065832)
- If using standard respiratory tubing without built-in leak port, MUST add standalone exhalation “leak” port (e.g. Fisher Paykel RT017 or Philips 1065775)
- Secure connections with tape
Step 4: Verify that exhalation port device with high resistance is present and can accept a viral filter
- Should be near the patient at end of tubing
- Attach a viral filter after exhalation port (so it can be changed when wet or clogged)
- Secure connections with tape

Step 5 (optional): If available, attach gas sampling adaptor for CO2 and flow monitoring

Step 6 (optional): If available, add inline heated humidifier (e.g. Fisher Paykel stand-alone humidifier) or inline moisture exchanger (e.g. Covidien 353US908)
- Secure connections with tape