

Pulmonary Technology Dependence Program

BREAS Vivo 45LS Ventilator Supply Sheet

& Circuit Change Procedure



Children's
of Alabama®

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BREAS Vivo 45 LS Ventilator



Barrierbac Filter



Fisher & Paykel RT202 Circuit



**Whisper Swivel
Exhalation Valve**



15/22mm Two-Step Adapter



**Swivel Adapter
w/Suction Port**



Airlife Type II HME



Filtered HME(Gibeck Pedi)



Gibeck Mini HME



Omni-Flex



Inline MDI Adapter



NeoTech VersaGrip Velcro

(Reminder: all supply components may not always resemble what is pictured above. Providers may have to order from varying suppliers depending on product availability. You may or may not be required to use every component shown above for your child.)

BREAS Vivo 45 LS Circuit Change Procedure

(Pre-use test must be performed once circuit change has been completed IF any new components are added to circuit or circuit differs from previous circuit)

Transportation Setup Procedure:

- 1) Wash your hands or use hand sanitizer to clean your hands
- 2) Turn heater off
- 3) Remove heater wire (pigtail) & temperature probes (both connections) from circuit
- 4) Loosen short circuit from filter & long circuit from water chamber then swap.
- 5) Place HME/HMEF inline now if leaving home

Circuit Change Procedure:

- 1) Wash your hands or use hand sanitizer to clean your hands
- 2) Make sure **2nd caregiver is at bedside and ready to assist with bagging**
- 3) Turn heater off
- 4) Loosen short circuit from filter & loosen long circuit from water chamber and swap
- 5) Long circuit should now be attached at filter and other end to patient trach tube
- 6) Remove water bag from water chamber line and set aside where it will not leak (remember - water bag is not disposable)
- 7) Remove water chamber and entire circuit from heater and discard
- 8) Open new circuit bag and place new water chamber on heater
- 9) Combine new filter and new short circuit, then add to new water chamber
- 10) Add new long circuit to water chamber
- 11) Add whisper swivel to straight end of long circuit (components from steps 11-13 can be combined previously and set aside for now)
- 12) Add two-step adapter to whisper swivel
- 13) Add suction port to two-step adapter (Omni-Flex and inline HME/HMEF will fit between these two when used)
- 14) Add Velcro clip to long circuit and secure to patient
- 15) Remove heater wire (pigtail) & temperature probes (blue probes) from ventilator circuit and cap openings to prevent leaks
- 16) Clean temperature probes and heater wire (allow 2 minutes for alcohol to dry completely)
- 17) Place temperature probes and heater wire back into their appropriate locations on the new circuit
- 18) Grab Ambu-bag, turn on oxygen (if patient requires O₂) and hand to 2nd caregiver
- 19) **Remove suction port from tracheostomy tube and place Ambu-bag on hub (2nd caregiver)**
- 20) **Start bagging patient and continue until circuit has been changed and pre-use test completed (2nd caregiver)**
- 21) Turn off Vivo 45 and remove filter & old circuit from vent (1st caregiver)
- 22) Attach new filter & short circuit to Vivo 45
- 23) Open "Others" menu tab and arrow down to pre-use test
- 24) Arrow down to "Start pre-use test" and perform pre-use test by following on-screen instructions to complete
- 25) Start therapy on Vivo 45 by pressing and holding power button and follow on-screen instruction
- 26) Attach completed long circuit to patient tracheostomy tube **(2nd caregiver stops bagging and removes Ambu-bag simultaneously)**
- 27) Assess patient, circuit connections, and Vivo 45 LS display screen for proper connection and baseline values
- 28) Add water bag to water chamber and turn heater on, assess heater for temperature readout and no alarms

You must perform a pre-use test **before** placing your patient back onto the vent whenever a **NEW/different** circuit has been added, not one you have been receiving. Remember to **ALWAYS** place an HME/HMEF inline when patient will be without a heater for extended periods. **Always** check HME/HMEF for moisture every 30 minutes when in use.