840™ Ventilator

PAV™+ SOFTWARE OPTION SETUP CARD

Setup Procedure

Follow the steps below to apply the Proportional Assist™ Ventilation Plus (*PAV*™+) software option from the New Patient Setup screen or current ventilation screens as indicated. For a complete description of the setup procedure, ventilatory parameters and patient parameters, please see the *PAV+* option addendum in the *840* Ventilator Operator's and Technical Reference Manual.

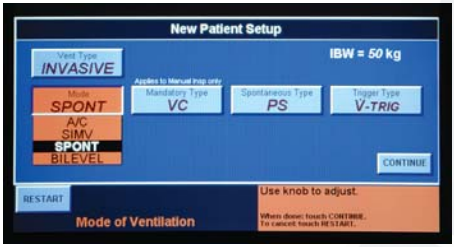
To set up a new patient:

1. Run or ensure that Short Self Test (SST) has been run with an adult-size circuit. When SST is complete, the ventilator automatically transitions from SST to the New Patient Setup screen.
2. Touch the New Patient Setup button.

For a patient currently being ventilated:

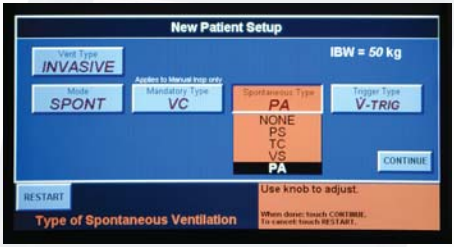
1. Ensure that the patient is being ventilated with an adult-size breathing circuit.
2. Touch the VENT SETUP button on the lower screen. **Proceed to Step 5.**

3. Verify that you are using an ADULT circuit, and enter the patient's body weight by touching the IBW* button and turning the knob to the desired weight setting. Touch the CONTINUE button.
4. Touch the MODE button. Turn the knob to select SPONT mode.



5. Touch the SPONTANEOUS TYPE button. Turn the knob to select PA (proportional assist breath type).

   Note: for the PA breath type to be available:
   - The patient's ideal body weight (IBW) must be at least 25 kg
   - The tube I.D. must be at least 6.0 mm



6. Touch the CONTINUE button. Default settings applicable to SPONT and PA appear in the *Sandbox* portion of the lower screen.

7. Enter the tube type and tube size:
   Type: ET or TRACH
   Size: 6.0 mm to 10.0 mm tube I.D.
8. Set the following alarms:
   - High inspired spontaneous tidal volume alarm ($\uparrow V_{TI\ SPONT}$)
   - High inspiratory pressure limit alarm ($\uparrow P_{PEAK}$)
9. Press ACCEPT to apply the new settings.
10. Adjust all other alarm settings as appropriate or as necessary.

***Calculation of IBW**

Males

IBW = 50k + 2.3(height in inches - 60)

Females

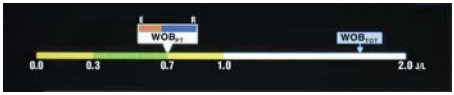
IBW = 45.5k + 2.3(height in inches - 60)

840™ *Ventilator*

PAV™+ SOFTWARE OPTION SETUP CARD

NOTE:

- For *PAV+* only, E_{SENS} represents the measured flow in L/min (not % of peak flow, as in Pressure Support breath types) at which the ventilator declares end of inspiration.
- When selecting the appropriate *%Support* level, consider the following during initial setup and subsequent adjustments:
  - Wait a minimum of 10 to 15 breaths for the algorithm to stabilize the patient's response to the new *%Support* setting before changing other settings.
  - Higher levels of support may prove uncomfortable to the patient, which may result in increased agitation. Be cautious when choosing *%Support* values higher than 80%.



  - Use the work of breathing (WOB) bar as a guide. Adjust the *%Support* setting to maintain the patient's WOB (WOB_{PT}) within the "green" region. If the WOB_{PT} indicator is to the left or the right of the green region, the patient is being, respectively, over-supported or under-supported by the ventilator.
- These suggestions should not replace sound clinical practice.

Monitored Data

The *PAV+* software option displays the following monitored data:

C_{PAV}	PAV-based lung compliance*
E_{PAV}	PAV-based lung elastance*
$PEEP_I$	Intrinsic PEEP
R_{PAV}	PAV-based patient resistance
R_{TOT}	Estimated total resistance*
$V_{TI\ SPONT}$	Spontaneous inspired tidal volume
f/V_T/kg	Normalized rapid shallow breathing index (RSBI)

* If the estimated value of C_{PAV}, E_{PAV}, R_{PAV} or R_{TOT} violates expected (IBW-based) limits, parentheses around the value indicate that the value is questionable. If the estimated value exceeds its absolute limit, the limit value flashes in parentheses.

tyco Healthcare

O.c 3022v1-0906 VE14406