Flowkit
by Armstrong Medical
Support Pack

Respiratory care, simplified
# Flowkit Support Pack

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1. Select correct size of AquaNASE® prongs.
2. Apply AquaNASE® and secure neck strap as shown.
3. Insert humidification chamber onto heater plate and spike water bag.
4. Attach circuit as shown a-d.

5. Connect heater cable and temperature probes.
6. Turn on heater and select NIV mode.
7. Set flow at 20l/min and select prescribed FiO₂ for 2 minutes.
8. Increase flow to 30l/min and monitor PaO₂, SpO₂ and respiratory rate.
Fitting guide

**Step 1**
Fit the looped neck support strap by placing over patients head and sliding down around the neck as shown.

**Step 2**
Adjust the looped neck support strap by pulling one strap through the clamp as shown.

**Step 3**
Place the elasticated strap around the patients head.

**Step 4**
Adjust the ends of the elasticated strap to secure the device.
1. Select correct size of face mask using sizing gauge, **DO NOT APPLY MASK UNTIL POINT 7.**
2. Insert humidification chamber onto heater plate and spike water bag.
3. Attach circuit as shown a-f.
4. Connect heater cable and temperature probes.
5. Turn on heater and select NIV mode.
6. Set flow at 60l/min and select prescribed FiO2.
7. Apply mask as per IFU.
8. Connect breathing circuit to mask.
9. Adjust flow to achieve CPAP, confirmed by manometer reading.
BPAP

Instructions for use

1. Select correct size of face mask using sizing gauge, **DO NOT APPLY MASK UNTIL POINT 7.**
2. Insert humidification chamber onto heater plate and spike water bag.
3. Attach circuit as shown a-d.
4. Connect heater cable and temperature probes.
5. Turn on heater and select NIV mode.
6. Select mode of ventilation as prescribed.
7. Apply mask as per IFU.
Universal Face Mask

Instructions for use

Step 1
Use sizing gauge to select appropriate size of mask. Place gauge tip to the bridge of patient’s nose. Align chin to scale to indicate correct size for patient. If in between 2 sizes, use smaller size for a better fit.

Step 2
Remove mask from packaging and release the bottom two quick release strap clips. Label should be facing outwards and readable.

Step 3
Place patient’s chin in chin cup and gently roll mask up to cover mouth and create a seal over the bridge of the nose.

Step 4
Slide headgear over patient’s head and reconnect bottom strap clips.
Step 5
Adjust top and bottom velcro straps by pulling slightly to hold the mask in place. Adjust the straps at the crown of the head to create a secure, comfortable fit.

Step 6
Mask and headgear should look like this when fitted correctly on patient.

Step 7
Mask and headgear should look like this when fitted correctly on patient.

Step 8
Universal face mask can be used for CPAP and BPAP therapies. By adding a CO₂ exhalation valve the mask can be used for BPAP.
To lock the front panel

Press and hold for 3 secs. LOCK will appear in the display.

To unlock the front panel

Press and hold for 3 secs to unlock for 60 secs. UNLK will appear in the display.

Change between Invasive and Non-invasive modes

Invasive mode display

Press and hold for 3 secs to unlock for 60 secs.

Non-invasive mode display

Chamber 37°C  
Patient 40°C

Chamber 31°C  
Patient 34°C

Green lights will flash to indicate:
• Non-Invasive mode
• Invasive mode
• Heater plate active.

Red lights will flash to indicate warning.
An alarm will sound to alert a user to a fault.
To view patient airway temperature.

Press and hold for 3 secs to unlock for 60 secs. UNL.K will appear in the display.

Ensure the heater is unlocked, to view heater plate and chamber temperature, continue to press and release the function button. This will enable you to scroll through the various temperature displays.

After 5 secs press and release to display patient airway temperature. Repeat to display heater plate and chamber temperature.

To lock display on a reading, press and hold the function for 3 secs to lock the screen.
FD140

Instructions for use

Turn FD140 ON/OFF

Mode selection (HFOT)
The display background colours are green for the helmet CPAP mode, purple for the CPAP mode and blue for the HFOT mode. After selection of a mode, the screen display changes and you can adjust the flow.

Adjustment of flow
Adjust flow to the required setting.

Adjustment of FiO₂
The standby and the therapy screens show the set FiO₂. The FiO₂ value can be adjusted by pressing the corresponding field on the touch screen.

Transition between therapies
The FD140 allows for easy transition between therapies.
Mode selection (CPAP)
The display background colours are green for the helmet CPAP mode, purple for the CPAP mode and blue for the HFOT mode. After selection of a mode, the screen display changes and you can adjust the flow.

Adjustment of flow
Adjust flow to the required setting.

Adjustment of FiO₂
The standby and the therapy screens show the set FiO₂. The FiO₂ value can be adjusted by pressing the corresponding field on the touch screen.

Activating the nebuliser
The standby and the therapy screens show the set FiO₂. The FiO₂ value can be adjusted by pressing the corresponding field on the touch screen.

Transition between therapies
The FD140 allows for easy transition between therapies.
MAXBlend™ should be calibrated before its first clinical use. Thereafter, the manufacturer, Maxtec Inc, recommends weekly calibration.

Option 1. (Based on MAXBlend™ operator manual)

- Connect the oxygen supply line (pressure alarm will sound). Verify that the oxygen sensor is located in the sensor port and connected to the sensor cable. Do not connect medical air supply line at this time.
- Using the ON/OFF key, ensure MAXBlend™ is powered on.
- Rotate the FiO₂ control to 100%. Allow two minutes for the reading to stabilise.
- Unlock the screen.
- Press the CAL key ; the text ‘CAL’ will be displayed at the top of the screen momentarily, followed by a flashing % icon.
- Press the or key to adjust the display O₂.
- After the value is set, press the CAT or LOCK keys to return to normal operation.
Option 2. (Based on MAXBlend™ operator manual)

Alternatively, MAXBlend™ can be quickly calibrated to room air (20.9%) using a shortcut command. This function saves time by setting the calibration valve to 20.9% without scrolling the display.

- Suspend the oxygen sensor in room air.
- Press the LOCK key to unlock the keypad.
- Press and hold down the CAL key . When the % sign starts to flash, press the key to set the calibration value to 20.9%
- Release both the CAL key and the key.
- The unit will automatically enter the LOCKED condition and return to normal operation.
AquaVENT® Heated Breathing Systems contain BioCote® antimicrobial silver additive to limit the numbers of microbes on the surface of the breathing circuit, protecting it from microbial colonisation.

Microscopy showing viable P. aeruginosa cells as green-coloured and dead P. aeruginosa cells as red-coloured.

Protected by BioCote®
Silver ions combine with microbial proteins located in the cell wall and cytoplasm, which interferes with their normal functioning.

Silver ions stop the microbes replicating by blocking the copying of their genetic material.

Silver ions are known to promote the formation of harmful chemicals called reactive oxygen species (ROS) inside microbial cells. Damage caused by ROS is a major contributor to ageing that results in further inhibition of microbial growth.

**BioCote® antimicrobial protection is effective against a broad spectrum of micro-organisms:**

- Clostridium difficile
- Legionella pneumophila
- MRSA
- Pseudomonas aeruginosa
- Salmonella enteritidis
- Salmonella typhimurium
- Staph aureus
- Vancomycin Resistant Enterococcus
- Aspergillus niger
- Aspergillus brasiliensis
- Candida albicans
- Penicillium sp.
- Influenza A H1N1
Armstrong manufacture a complete range of disposable respiratory products for anaesthesia and critical care applications. For supply of these products or any product within the Armstrong range, please contact your local representative.