



Creating Support for **Life**

Neo**Flow** Neonatal **Care**



armstrongmedical.net

Creating Support for **Life**



Contents

3	NeoFlow Introduction	14	High Flow Oxygen Therapy
4	NeoFlow Bonnet	16	Invasive Ventilation
6	NeoFlow nCPAP Generator	18	Resuscitation
8	NeoFlow HFOT Cannula	20	NeoFlow Systems
10	nCPAP Circuits	21	AquaVENT® Heater
12	Bubble CPAP	22	BioCote®

NeoFlow

Neo**Flow** is a range of respiratory products to support healthcare professionals in improving outcomes in Neonatal critical care.

Neo**Flow** multi-therapy breathing circuits, protected by BioCote®, are easier & safer to use. Streamlining delivery of care to save users time and reducing waste.



Aqua**VENT**® technology offers advances in thermal conductivity and breathing circuit construction to deliver optimal and controlled humidification.

Neo**Flow** patient interfaces for High Flow Oxygen Therapy (HFOT) and nCPAP offer innovative design to improve comfort.



What is **important to us?**



NeoFlow Bonnet



Our bonnet is made from ultrasoft material and is easy to size, fit and adjust.



The wrap-over design allows for baby growth and reduces the number of bonnet sizes required to 5.



The Neo**Flow** bonnet can be used for both nCPAP and HFOT.



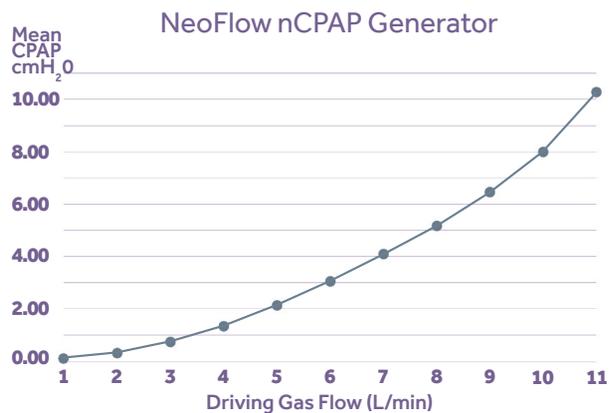
Maintain normothermia during and after resuscitation with the Neo**Flow** bonnet.

Thermal property tests demonstrated lower heat transfer through the Neo**Flow** bonnet compared with standard cotton bonnets.

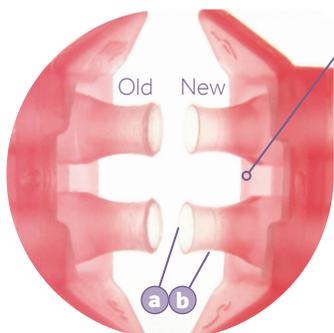
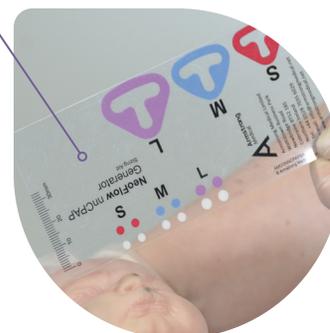
Neo**Flow** nCPAP Generator



The Neo**Flow** nCPAP Generator with accurate pressure/flow curve includes a support cradle for a stable midline placement reducing the potential for a nasal tissue injury.



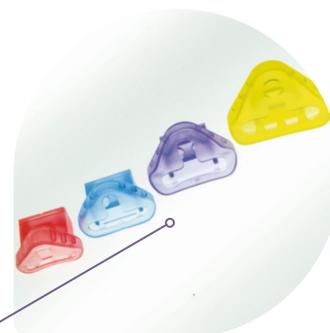
Colour coded sizing aid.



Improved atraumatic prong tip design:

- a) Thin-walled feather tip
- b) Flared prong design

Full range of nasal masks also available.



Available with silencer.

Crimped tie end for ease of threading when using conventional bonnets.



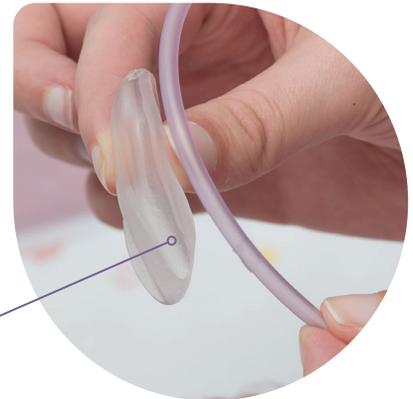
NeoFlow HFOT



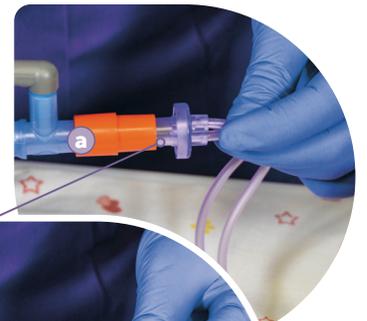
NeoFlow ultra soft nasal High Flow cannula include fixation and securement options.



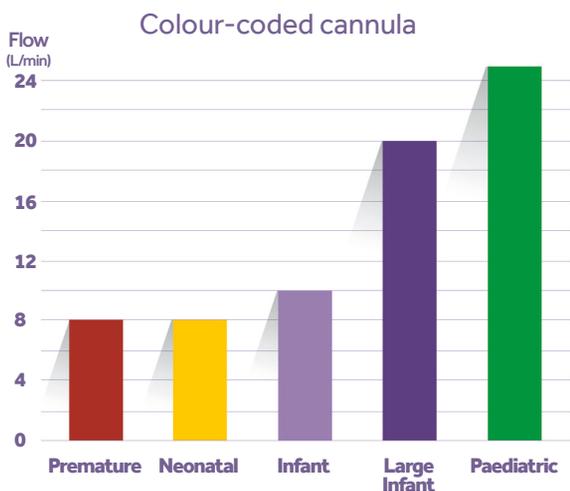
Colour coded sizing aid.



NeoFlow adjustable fixation pads, available in 2 sizes (S + L), are adhered with hypoallergenic 3M™ Gentle Si Medical Acrylic Silicone tape.



Enhanced connectivity to F&P^(a) and Vapotherm^{®(b)} circuits.



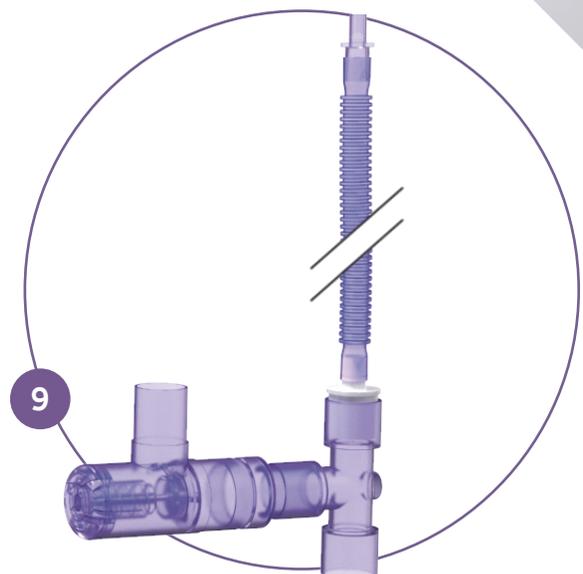
Compatible with the NeoFlow bonnet, reducing the need for fixation to the skin.

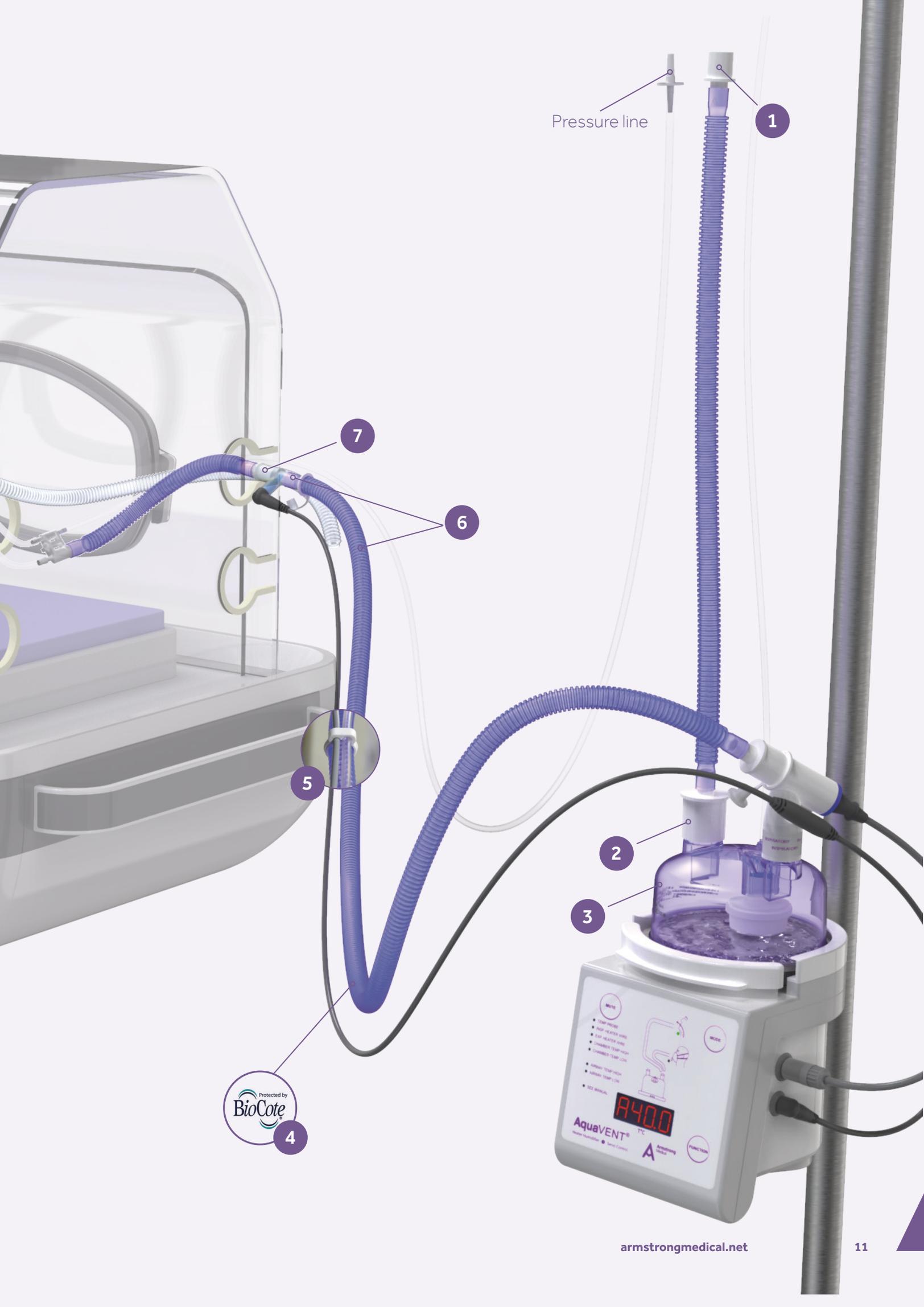


nCPAP Circuits

Neo**Flow** nCPAP circuits are compatible with the majority of flow drivers. Flexibility of use reduces the need to hold multiple circuits in stock.

- 1** | Adapters to fit:
 - Acutronic Fabian
 - Heinen + Löwenstein Leoni, Leoni Plus
 - Infant Flow® SiPAP Plus
- 2** | Nitric oxide connectors
- 3** | Autofill humidification chamber with 1.2m feedline
- 4** | Protected by BioCote®
- 5** | Tubing clips
- 6** | 1.3m Inspiration limb with 1.2m heated section
- 7** | Detachable incubator limb
- 8** | With or without nCPAP generator
- 9** | High Flow conversion kit





Pressure line

1

7

6

5

2

3

Protected by
BioCote

4

- TEMP. HIGH
- TEMP. HEATER LOW
- TEMP. HEATER HIGH
- CHAMBER TEMP. HIGH
- CHAMBER TEMP. LOW

- AIRWAY TEMP. HIGH
- AIRWAY TEMP. LOW
- SEE MANUAL

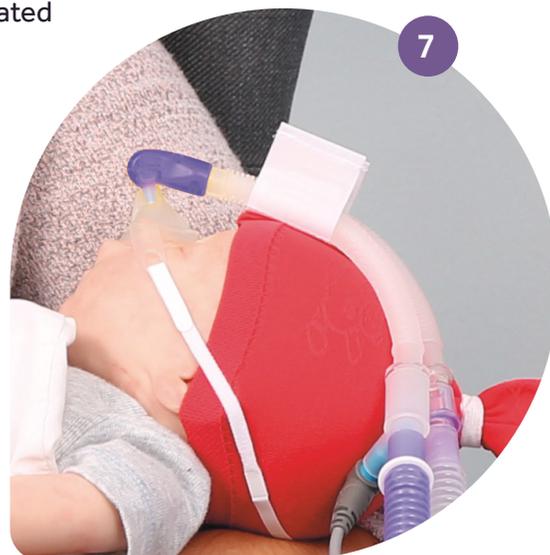
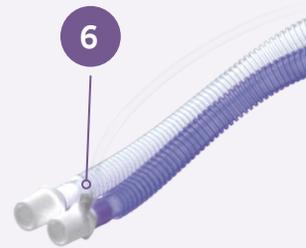
AquaVENTTM

Humidifier

Bubble CPAP

Neo**Flow** Bubble CPAP provides a safe, consistent and accurate method of delivering humidified respiratory support to spontaneously breathing neonates.

- 1 | Pressure Relief Valve
- 2 | Autofill humidification chamber with 1.2m feedline
- 3 | Protected by BioCote®
- 4 | Tubing clips
- 5 | 1.3m Inspiration limb with 1.2m heated section
- 6 | Pressure monitoring
- 7 | Bubble CPAP interface
- 8 | Water trap expiratory limb (Heated expiratory limb also available)
- 9 | Bubble CPAP generator

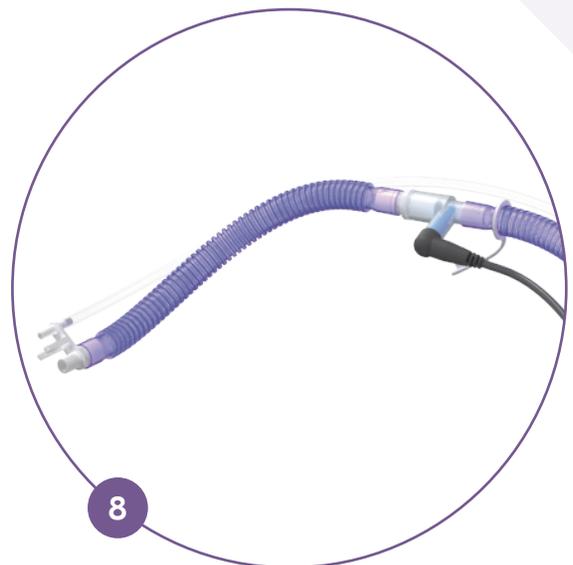




High Flow Oxygen Therapy

Neo**Flow** High Flow circuits are created for easy transition to and from nCPAP, bubble CPAP or invasive ventilation.

- 1** | High Flow/nCPAP adapter
- 2** | Pressure Relief Valve
- 3** | Autofill humidification chamber with 1.2m feedline
- 4** | Protected by BioCote®
- 5** | Tubing clips
- 6** | 1.3m Inspiration limb with 1.2m heated section
- 7** | Detachable incubator limb
- 8** | nCPAP Conversion Kit



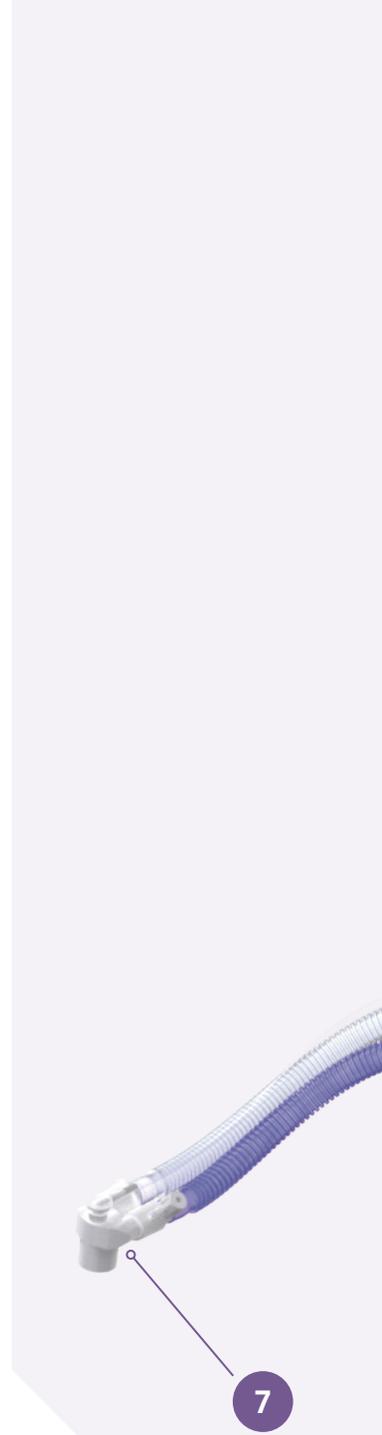
NeoFlow blender includes a dual flow meter for both low flow 0-3 L/min and full high flow 15 L/min support and full control of oxygen concentration 21-100%



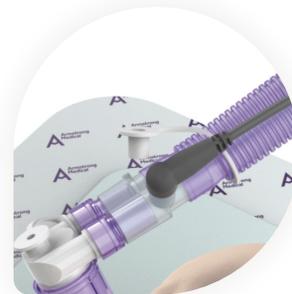
Invasive Ventilation

Neo**Flow** ventilation circuits include active humidification, high frequency oscillation and transport options.

- 1** | Adapters to fit common ventilators
- 2** | Nitric oxide connectors
- 3** | Autofill humidification chamber with 1.2m feedline
- 4** | Protected by BioCote®
- 5** | Tubing clips
- 6** | 1.3m Inspiration limb with 1.2m heated section
- 7** | Swivel Y-Piece
- 8** | Heated or non-heated expiratory limb with water trap



Our Swivel Y-Piece has 3-point independent rotation & combined articulation, enabling smooth movement when maintaining a fixed endotracheal tube.



Gentle repositioning of neonate results in minimal torque to the endotracheal tube.

Rotational force is transferred to the inspiratory & expiratory limbs.

Limbs can be independently repositioned with reduced risk of disconnection.



Resuscitation

The Neo**Flow** blender and resuscitation circuits provide accurate control of flow, O₂ and PEEP.

Applications include:

- + Resuscitation
- + Humidified Low Flow Oxygen Therapy
- + Humidified High Flow Oxygen Therapy
- + Bubble CPAP

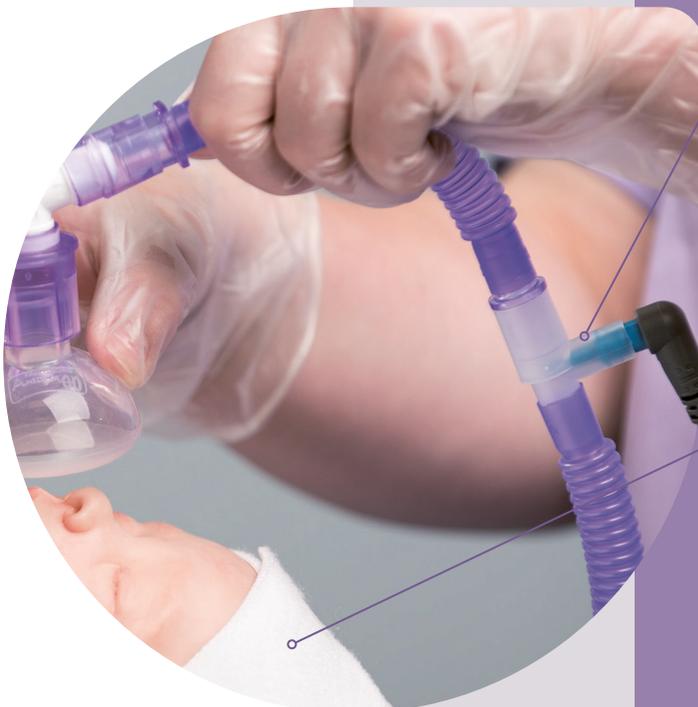
- 1 | NeoFlow blender
- 2 | Dual flow meter for Low Flow 0–3 L/min and High Flow 0–15L/min
- 3 | Oxygen analyser for confirmation of FiO₂
- 4 | NeoFlow resuscitator
- 5 | NeoFlow circuit protected by BioCote®
- 6 | NeoFlow resuscitation masks, 4 sizes





Neo**Flow** resuscitation masks include hand positioning guides for optimal seal and ventilation.

Mask design incorporates core strength to resist collapse during use.



Heated humidified resuscitation delivers optimal care for babies' first breaths and improves temperature on admission to NICU.*

*Neo Resus Guidelines 2015, Resuscitation Council (UK).

Maintain normothermia during and after resuscitation with the Neo**Flow** bonnet. The Neo**Flow** bonnet can remain in use with High Flow or nCPAP.

NeoFlow Systems

NeoFlow Blender and Blender Buddy

Product Overview

Our NeoFlow Blender and Blender Buddy can be connected to any neonatal resuscitator for accurate control of flow and O₂ concentration. Inline oxygen analyser allows for accurate O₂ monitoring.

The dual flow meter options include 0-3L/min, 0-8L/min, 0-15L/min and 0-30L/min and can be used for Resuscitation, High Flow, Low Flow and Bubble CPAP.

NeoFlow includes the MaxO₂ analyser.

Order Code

Please refer to the Armstrong Medical Hardware System Catalogue for information on NeoFlow Blender and Blender Buddy codes.

NeoFlow Infant Resuscitator

Product Overview

- Light case with easy transport handle
- PIP and PEEP regulation valve and safety valve
- Works in tandem with NeoFlow Blender, with external gas source
- Input Pressure: 15MPa
- Flow: 0-15L/min
- Dimension: 53x44x18cm

Order Code

AMNF1020
NeoFlow Infant Resuscitator



AquaVENT[®] Heater Humidifier

Product Overview

The **AquaVENT[®]** Heater Humidifier is used to warm and humidify gases delivered to patients who require respiratory support via a tracheal tube, face mask or nasal cannula.

The system includes:

1. Invasive or non-invasive mode selection
2. Automatic temperature selection
3. Low and high temperature alarm
4. Over-temperature protection
5. Real-time temperature tracking display allows heated plate, chamber and airway temperature to be viewed
6. Digital display
7. Servo-controlled

Product Specification

- Dimensions: W135mm x D170mm x H156mm (without chamber)
- Weight: 2.9kg (without chamber)
- Electrical Rating: Supply Frequency: 50-60Hz
- Supply Voltage: 230V ± 23V
- Supply Current: 1.0A max at 230V
- Heater Plate: 150W
- Wire Capacity: 60W

Order Code

AMHH2600A UK

AquaVENT[®] Heated Humidifier, servo-controlled UK

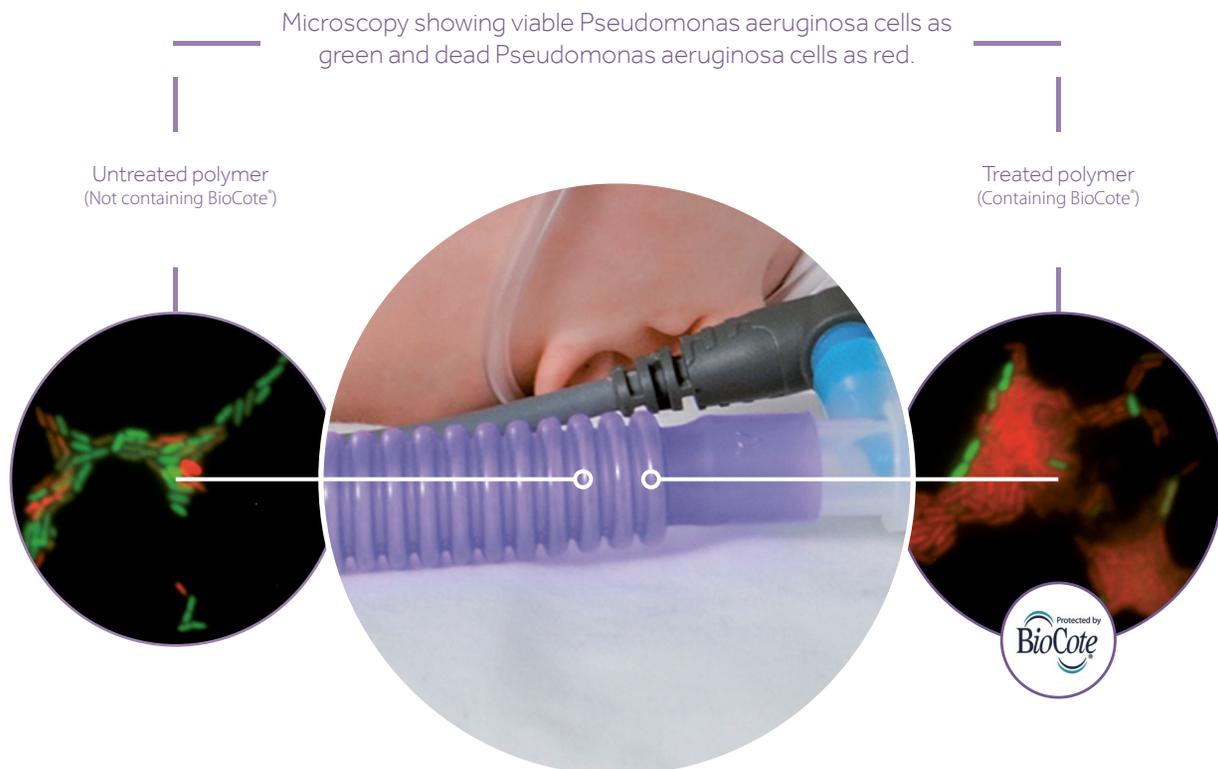


Protected by BioCote®

AquaVENT® heated breathing circuits contain **BioCote®** antimicrobial silver additive, protecting it from microbial colonisation.

BioCote® antimicrobial protection is effective against a list of micro-organisms:

Clostridium difficile	Salmonella typhimurium	Penicillium sp.
Legionella pneumophila	Staphylococcus aureus	Influenza A H1N1
Pseudomonas aeruginosa	Aspergillus niger	MRSA
Candida albicans	Aspergillus brasiliensis	
Vancomycin-Resistant Enterococcus	Salmonella enteritidis	



 Contact us for any specific requirements.



Please contact us at:

uk-sales@armstrongmedical.net
roi-sales@armstrongmedical.net
or **export@armstrongmedical.net**
to arrange your consultation.

Distributed by:



armstrongmedical.net

Armstrong Medical
Wattstown Business Park, Newbridge Road,
Coleraine, BT52 1BS, Northern Ireland.
T +44 (0) 28 7035 6029
F +44 (0) 28 7035 6875
info@armstrongmedical.net