

# Oxygen Assist Module (OAM)

The Automatic Oxygen Controller for Vapotherm's Precision Flow® System



## More time in range. More time to care.

Vapotherm OAM and the Precision Flow System work together to work better for you and for your patients.

### OAM keeps babies in their prescribed target SpO<sub>2</sub> range significantly better than manual control<sup>1</sup>

- Helps easily and accurately maintain SpO<sub>2</sub> during stress, movement and feeding
- May allow nurses to spend more time with babies and parents and less time changing settings

### Precision Flow System with Hi-VNI® Technology—the clinically proven, gentler alternative to nCPAP and NiPPV for primary respiratory support in neonates<sup>2</sup>

- Facilitates kangaroo care without bulky interfaces
- Precise control of FiO<sub>2</sub> delivery
- Fast and easy setup



1. Reynolds PR et al. *Archives of Disease in Childhood - Fetal and Neonatal Edition* Published Online First 21 November 2018. doi: 10.1136/archdischild-2018-315342  
2. Lavizzari A, Colnaghi M, Ciuffini F, Veneroni C, Musumeci S, Cortinovis I, Mosca F. "Heated, humidified high-flow nasal cannula vs nasal continuous positive airway pressure for respiratory distress syndrome of prematurity – a randomized clinical noninferiority trial." *JAMA Pediatr.* 2016 Aug 8.

# Give babies the developmental care they need

The Precision Flow gives them a gentle alternative to nCPAP while OAM keeps their SpO<sub>2</sub> in range.

## Positioning<sup>1</sup>

The Precision Flow device allows for easy handling of the baby without worrying about leaking at the interface and with low risk of therapy disruption while OAM assists staff in maintaining target SpO<sub>2</sub>.

## Nursing Time for Care<sup>1</sup>

OAM may result in fewer manual adjustments, which could release time for other important clinical needs.

## Skin-to-Skin Care

Give your babies family-integrated care. Families can see their baby's face and bond without bulky interfaces in the way and practice skin-to-skin care.<sup>2</sup> Mothers can breastfeed while OAM keeps their babies' SpO<sub>2</sub> in range.<sup>1</sup>

## External Stimuli (Light/Sound)<sup>1</sup>

OAM may reduce time in SpO<sub>2</sub> alarms and noise due to SpO<sub>2</sub> alarms.



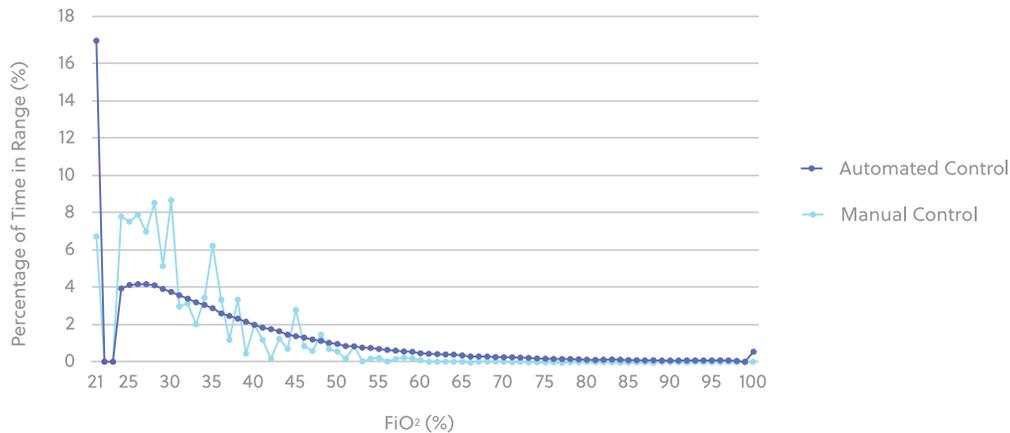
## Not a pressure modality— an open system

It is crucial to note that pressure is not the primary mechanism of action for the Precision Flow System. Instead, it delivers High Velocity, which is an open system that requires that no more than 50% of the patients' nares are occluded. This enables dead space washout and CO<sub>2</sub> egress. The loose-fitting interface is also what facilitates developmental care and greatly reduces the likelihood of skin erosion and nasal trauma in babies.



# Importance of keeping patients in the SpO<sub>2</sub> range

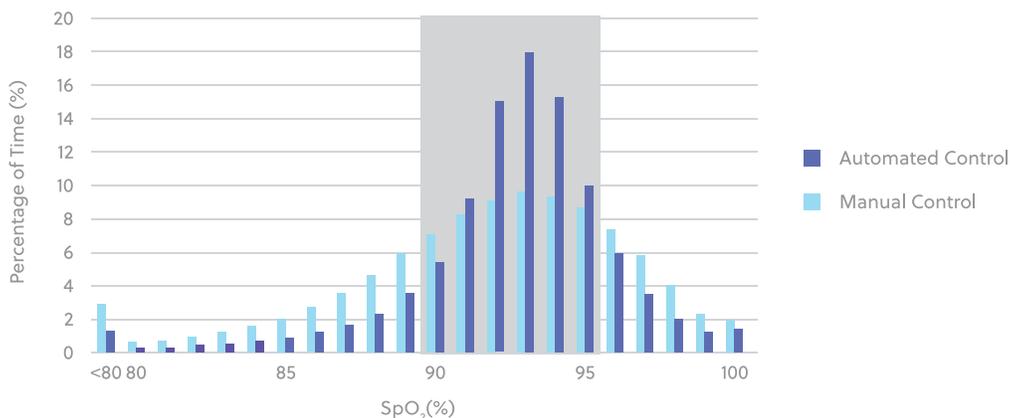
Keeping your patients' SpO<sub>2</sub> in range is a time-consuming challenge, but it is also crucial in avoiding clinical consequences of too high or too low SpO<sub>2</sub>, such as retinopathy of prematurity (ROP), lung damage, necrotizing enterocolitis (NEC), neurodevelopmental impairment, or even death.



**Figure 1**, adapted from Reynolds et al, shows that with OAM, babies spend more time on room air while staying in range. As the authors note, "OAM significantly improved the time spent in SpO<sub>2</sub> target range from 49% under manual control to 80% under automated control."

## OAM keeps your preterm babies in their SpO<sub>2</sub> range longer

Not only could OAM free up time for care, but it allows reliable realization of a selected SpO<sub>2</sub> target. In Reynolds et al 2019 OAM automated control maintained the babies' SpO<sub>2</sub> in the target SpO<sub>2</sub> range significantly more effectively than manual control, and reduced the duration of hypoxic and hyperoxic episodes.<sup>1</sup>



**Figure 2**, adapted from Reynolds et al, demonstrates the results OAM's automated control achieved by comparison to manual adjustments.

# Precise and safe oxygen control

“The [Oxygen Assist Module] maintained patients in the target SpO<sub>2</sub> range significantly better than manual adjustments in preterm babies.”

AUTHORS OF RANDOMISED CROSS-OVER STUDY OF AUTOMATED OXYGEN CONTROL FOR PRETERM INFANTS RECEIVING NASAL HIGH FLOW<sup>1</sup>



## Safe. Sophisticated. Simple.

Product simplicity and safety features give providers the option to confidently and easily control automated oxygen delivery:

- Full compatibility with Vapotherm Precision Flow Systems\*
- Convenient touch screen display on OAM
- Uses Masimo SET® Measure through Motion and Low Perfusion™ pulse oximetry
- Sophisticated trend views
- Large LED screen conveniently displays selected therapy parameters
- Integrated patient safety alarms
- Connection to nurse call
- Easy one-button control on the Precision Flow System
- The Precision Flow System is incubator safe and all components are safe to touch without burn risk



\*Compatible with all air/oxygen Precision Flow systems with software version 3.8.3 and above.

OAM is currently only available in the European Union.

Visit [www.vapotherm.com](http://www.vapotherm.com) to learn more.

