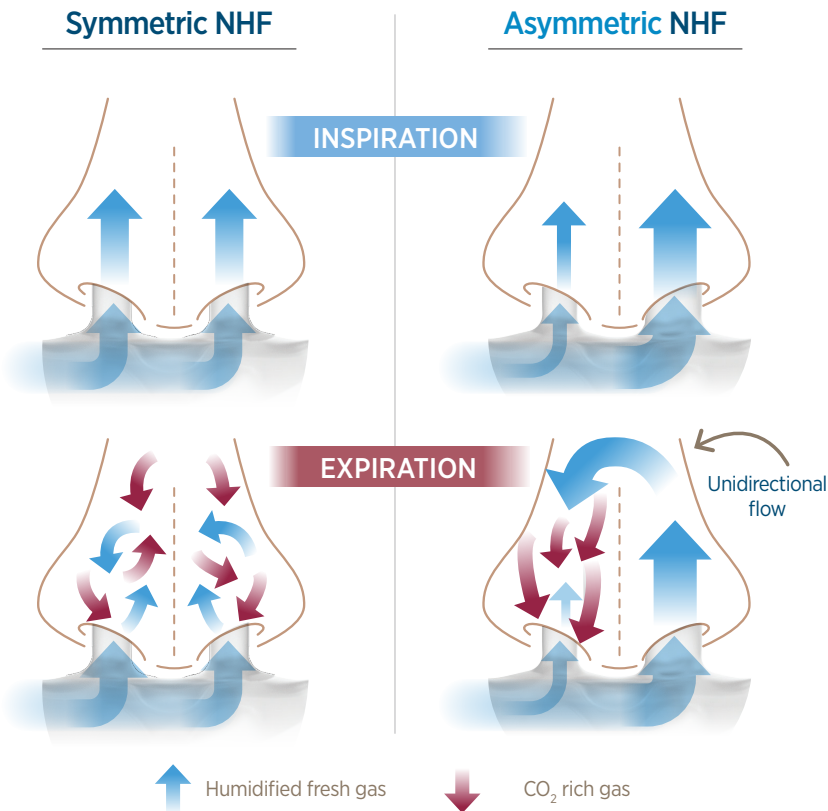


Asymmetric nasal high flow therapy,
reshaping respiratory support.



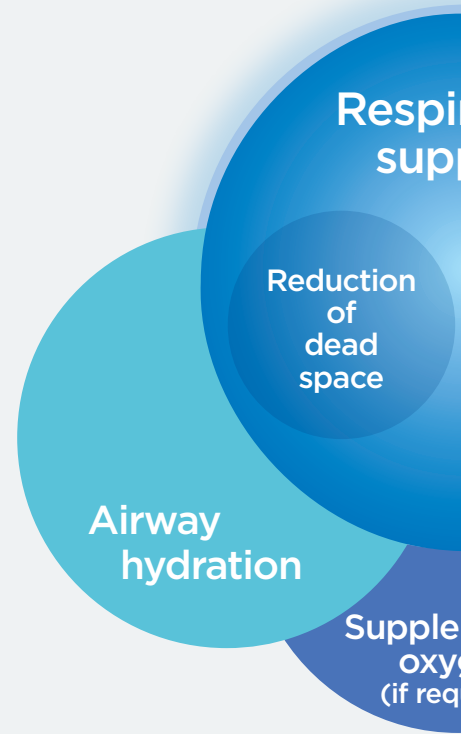
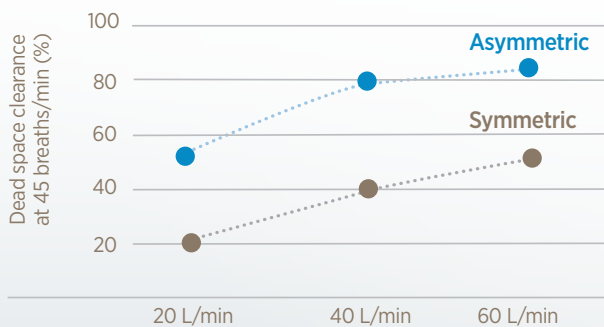
Enhancing Optiflow™ nasal high flow therapy

Optiflow+ Duet increases dead space clearance¹



Asymmetric design increases dead space clearance by creating unidirectional flow which purges expired gas¹.

Dead space clearance in an upper airway model*



Optiflow+ Duet

Asymmetric design offers improved comfort for patient comfort

72% of users reported it was quieter during use



*Adapted from Tatkov S, et al. 2023.

**Adapted from Slobod D, et al. 2023.

Compared to their usual interface.

Respiratory
port

Dynamic
positive
airway
pressure

Patient
comfort

Minimal
leakage
(no
CPAP
required)

reduces noise³

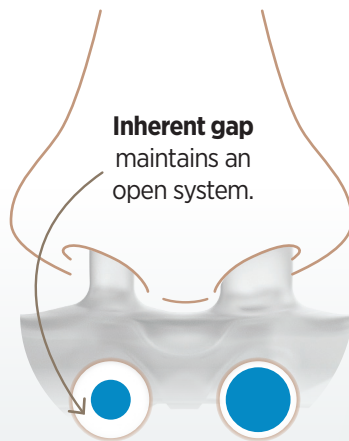
Provides a quieter³ interface
with better fit and compliance.

Prove that the Optiflow+ Duet
reduces noise³ during therapy^{#4}.

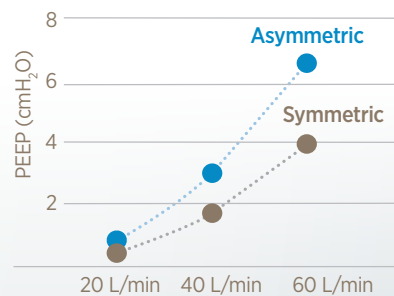


Optiflow+ Duet increases pressure¹

Asymmetric design provides **greater total occlusion**
which increases pressure¹.



PEEP in an upper airway model*



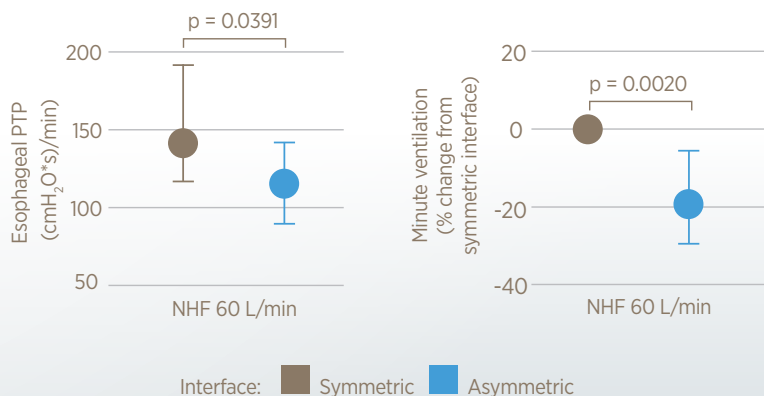
Optiflow+ Duet reduces work of breathing²

Asymmetric nasal high flow therapy reduces work of breathing and minute ventilation in adult ICU patients with acute hypoxemic respiratory failure².

17%

reduction in work of breathing when using
60 L/min of asymmetric NHF therapy².

Work of breathing and minute ventilation in AHRF patients**



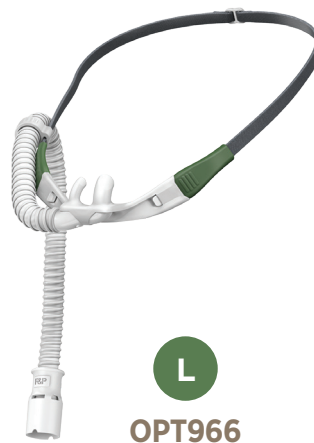
- Increased dead space clearance¹
- Increased pressure¹
- Reduced work of breathing²
- Reduced noise³



S
OPT962



M
OPT964



L
OPT966

F&P Optiflow™ Duet™ App



1. Tatkov S, Rees M, Gulley A, et al. Asymmetrical nasal high flow ventilation improves clearance of CO₂ from the anatomical dead space and increases positive airway pressure. *J Appl Physiol.* 2023; 134(2):365-377.
2. Slobod D, Spinelli E, Crotti S, et al. Effects of an asymmetrical high flow nasal cannula interface in hypoxemic patients. *Crit Care* 2023;27:145.
3. Rees M, et al. TR-37238 (internal F&P benchtop testing) 2021. *Compared to symmetric interface, Optiflow+ Duet was lower in average dBA at 30, 40 and 50 L/min, p < 0.05.*
4. Gerez L, et al. TR-40899 (internal F&P preference trial) 2023. *Cross sectional survey with 18 participants at 15 sites in 3 countries.*