

# NitroBlend

Nitrous oxide-oxygen blender  
NitroBlend 50A, 50F and  
NitroBlend 70A



The **NitroBlend 50A** and **NitroBlend 70A** nitrous oxide oxygen mixer / blender are characterized by their particularly easy operation and high accuracy. The **NitroBlend 50A** variant enables a maximum adjustable concentration ratio of 50% O<sub>2</sub> and 50% N<sub>2</sub>O. The **NitroBlend 70A** variant enables a maximum adjustable concentration ratio of 30% O<sub>2</sub> and 70% N<sub>2</sub>O, whereby this variant has an additional mechanical stop at a concentration ratio of 50% N<sub>2</sub>O. The gas mixture is released via a flow meter or a connected demand valve.

All variants use oxygen as the carrier gas.

The **NitroBlend 50F** is not adjustable, but fixed to 50% nitrous oxide.

#### Sufficient oxygen supply

In the NitroBlend 70A variant, the patient is supplied with at least 30% oxygen; a lower value cannot be set. In the NitroBlend 50A and 50F variants, the oxygen supply is even at least 50% oxygen, so that there is always protection against the risk of hypoxia or anoxia.

#### Nitrous oxide barrier / N<sub>2</sub>O feed stop

The supply of the N<sub>2</sub>O flow is automatically interrupted when the oxygen flow is interrupted.

#### Emergency O<sub>2</sub> flush

When the O<sub>2</sub> flush is activated, the patient is immediately supplied with 100% O<sub>2</sub>, in the meantime the nitrous oxide supply is interrupted.

#### Acoustic alarm

In the event of a gas failure (oxygen and / or nitrous oxide) an acoustic warning signal sounds to inform the user of a gas failure.

Technical data	NitroBlend 50A	NitroBlend 70A	NitroBlend 50F
Measurements LWH	11,5 x 6,3 x 11,5 cm	11,5 x 6,3 x 11,5 cm	11,5 x 6,3 x 11,5 cm
Weight	ca. 1600 g	ca. 1600 g	ca. 1600 g
Accuracy	+/- 3 %	+/- 3 %	+/- 3 %
Max. concentration N <sub>2</sub> O	50%	70%	50%
Special feature		Detent at 50% N <sub>2</sub> O	Permanently set
Activation of gas supply alarm	> 1 bar pressure difference of the supply gases, or one gas 0	> 1 bar pressure difference of the supply gases, or one gas 0	> 1 bar pressure difference of the supply gases, or one gas 0
Flow outlet	2 – 40 l/min	2 – 40 l/min	2 – 40 l/min
Total flow maximum	> 40 l/min	> 40 l/min	> 40 l/min
Emergency shutdown N <sub>2</sub> O	< 2,5 bar O <sub>2</sub>	< 2,5 bar O <sub>2</sub>	< 2,5 bar O <sub>2</sub>
O <sub>2</sub> Flush	100% O <sub>2</sub>	100% O <sub>2</sub>	100% O <sub>2</sub>
Inlet pressure	3,5 – 6,5 bar	3,5 – 6,5 bar	3,5 – 6,5 bar
Operating temperature	+5°C bis +40°C	+5°C bis +40°C	+5°C bis +40°C
Relative humidity	max. 95% non-condensing humidity	max. 95% non-condensing humidity	max. 95% non-condensing humidity



**Safety features for patient and user:**  
Device type: not electrically operated  
Function: mechanical / pneumatic  
Industry standard: DIN EN ISO 11195: 2018  
CE mark / number: 13485: 2016 certified

Suite 9 - Hobsons Bay Business Centre  
Level 1/92  
Railway Street  
Altona, 3018

+61 3 8398 0849  
info@tenacore.com.au  
tenacore.com.au

tenacore

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