

## Carina®

The clever-compact Carina, with its advanced NIV functionality, ease of operation and portability will help you put your patients on the road to recovery - quickly and comfortably.



### TECHNICAL DATA

<b>Patient type</b>	- Adult and pediatric patients
<b>Ventilation settings</b>	
Ventilation mode	- VC-SIMV AutoFlow™ <sup>1)</sup> - PC-BIPAP <sup>1)</sup> - PC-AC - SPN-PS (+VG) - SPN-CPAP - Apnea Ventilation
<b>Settings</b>	
Tidal volume VT	100 to 2000 mL, BTPS*
PEEP	3 to 20 mbar (cmH <sub>2</sub> O)
Inspiration pressure limit Pmax	5 to 50 mbar (cmH <sub>2</sub> O)
Inspiration pressure P <sub>insp</sub>	5 to 40 mbar (cmH <sub>2</sub> O) (leak valve) 5 to 50 mbar (cmH <sub>2</sub> O) (expiratory valve)
Pressure support ΔP <sub>supp</sub>	2 to 40 mbar (cmH <sub>2</sub> O) (leak valve) 2 to 50 mbar (cmH <sub>2</sub> O) (expiratory valve) (absolute ≥ 5 mbar (cmH <sub>2</sub> O))
CPAP	3 to 20 mbar (cmH <sub>2</sub> O)
Ventilation frequency (f)	5 to 50 bpm
Inspiration time (T <sub>i</sub> )	0.3 to 8.0 s
I:E ratio	1:39 to 2:1
Rise time Ramp	Auto, 0.1 to 2.0 s
Trigger sensitivity	normal, sensitive, OFF
Insp. O <sub>2</sub> -concentration (F <sub>i</sub> O <sub>2</sub> )	21 to 100 %
Time setting	T <sub>i</sub> / I:E
Application method setting	Mask / Tube (mask only for leak valve)
Screen type setting	Curves / Measure
Diagonal screen size	13.7 cm (5.4 inch) TFT color screen
Night screen setting	Screen on/off



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clever, comfortable and compact.

**Measured value displayed**

Inspiratory peak pressure (PIP)	0 to 80 mbar (cmH <sub>2</sub> O)
Pos. end-exp. pressure (PEEP)	0 to 80 mbar (cmH <sub>2</sub> O)
Mean airway pressure (P <sub>mean</sub> )	0 to 80 mbar (cmH <sub>2</sub> O)
Inspiratory tidal volume (VT <sub>i</sub> , VT)	0 to 4000 mL, BTPS*
Ventilation frequency (f)	0 to 80 bpm
Minute volume (MV <sub>i</sub> , MV)	0 to 40 L/min, BTPS*
Minute volume leakage (MV <sub>leak</sub> )	0 to 99 L/min, BTPS*

**Curve screen**

Pressure (t)	0 to 80 mbar (cmH <sub>2</sub> O)
Flow (t)	-160 to + 160 L/min

**Bargraph screen**

Pressure	0 to 60 mbar (cmH <sub>2</sub> O)
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**Alarms / settings**

Airway pressure (Paw)	10 to 55 mbar (cmH <sub>2</sub> O)
Insp. minute volume MV high	2 to 40 L/min
Insp. minute volume MV low	0.1 to 39 L/min
Ventilation frequency f high	10 to 50 bpm
Delay time (T <sub>disconn</sub> )	Mask 0 to 120 s (leak valve) Tube 0 to 60 s
Apnea alarm time (T <sub>Apn</sub> )	5 to 60 s

**Operating data**

Mains power connection	100 to 240 V AC (-20 to 10 %); 50 to 60 Hz; 1.7 to 1.1 A	
Internal battery	60 min	
Gas supply	HPO	O <sub>2</sub> -pressure 2.7 to 6 bar (39.16 to 87.02 psi) (270 to 600 kPa) O <sub>2</sub> -Flow 0 to 120 L/min
	LPO	O <sub>2</sub> -pressure 0 to 500 mbar (0 to 72.52 psi) (0 to 500 hPa) O <sub>2</sub> -Flow 0 to 10 L/min
Dimension (W x H x D)	Basic unit 175 x 275 x 385 mm (6.89 x 10.83 x 15.16 inch) Trolley 950 x 570 x 670 mm (37.40 x 22.44 x 26.38 inch)	
Weight	Basic unit 5.5 kg (12.13 lbs.) Trolley 11.5 kg (25.35 lbs.)	
Noise level	Max. 40 dBA (at 10 hPa (0.15 psi))	
Max. inspiratory flow	180 L/min at 21 Vol.% O <sub>2</sub> and normal ambient conditions 120 L/min at 100 Vol.% O <sub>2</sub> and normal ambient conditions	

**Connections**

Data port	RS 232 (MEDIBUS Software protocol output)
Nurse call system	AMP/Tyco 5-555237-3, 6-pole

**Accessories**

Patient hose system	One hose system with leak valve One hose system with expiratory valve
External battery	Approx. 8 h

\*BTPS = Body Temperature Pressure Saturated

1) BIPAP, trademark used under license. AutoFlow™, trademarked by Dräger.

**HEADQUARTERS**

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Dräger Medical GmbH is certified  
according to ISO 13485, ISO 9001  
and Annex II.3 of Directive 93/42/EEC  
(Medical devices).