

## Carina®

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



### TECHNICAL DATA

#### Ventilation settings

Ventilation mode	<ul style="list-style-type: none"> <li>- VC-SIMV AutoFlow</li> <li>- PC-BIPAP</li> <li>- PC-AC</li> <li>- SPN-PS (+VG)</li> <li>- SPN-CPAP</li> <li>- Apnea Ventilation</li> </ul>
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#### Settings

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 Trigger	normal, sensitive, OFF
Insp. O <sub>2</sub> -concentration FiO <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
<b>Measured value displayed</b>	
Inspiratory 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>	0 to 4000 mL, BTPS*
Ventilation frequency f	0 to 80 bpm
Minute volume MV <sub>i</sub>	0 to 40 L/min, BTPS*
Minute volume leakage MV <sub>leak</sub>	0 to 99 L/min, BTPS*



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clever, comfortable and compact.

**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))
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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

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**HEADQUARTERS**

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