

Dräger Carina® Sub-Acute Care Ventilation

Designed for non-invasive ventilation: With its unique SyncPlus® technology and an extended NIV function, the user-friendly Dräger Carina® offers reliable and easy ventilation – and thanks to its compact design, this also applies when transporting patients.



Benefits

Carina – a clever choice

Dräger has developed an innovative type of high-performance NIV ventilator, that is comfortable for both the patient and the caregiver. Carina is compact and also mobile to optimise the workflow and the usage of working time and clever to recognise changes in flow parameters and patient status, providing just the right amount of support while giving the patient room to breathe. Carina features a range of ventilation modes for spontaneous and mandatory ventilation and an integrated blender which can supply oxygen concentrations from 21 - 100%. Should the need arise, Carina can even be used for invasive ventilation.

Comfortable operation

We know how important a restful, healing environment is to patients and caregivers. That's why the Carina features an extremely quiet blower that enables practically silent operation (max. 40 dBA). A 5.4 inch, high-visibility TFT colour monitor displays your choice of value or curve information which can be further customised to suit your particular needs.

Clever features

Dräger's unique SyncPlus® functionality provides the kind of consistent flow that translates to superior therapeutic benefit, but without compromising on comfort. Carina's AutoRamp® feature simulates a natural breathing pattern which helps optimise inflation flow delivery to the patient.

Compact device

Weighing in at just 5.5 kg, the Carina's extremely compact design lets you take it nearly anywhere for subacute care. For patient transfers or in case of power failure, the internal battery can provide power for up to an hour of off-line operation.

Related Products



MT-6073-2008

Dräger Evita® Infinity® V500 ventilator

Combine fully-featured, high-performance ventilation with Infinity® Acute Care System™ integration to meet the challenges of today's health care environment.



D-43497-2012

Evita® V300

The Evita® V300 is a scalable and versatile device which offers high ventilation quality. To meet and master the changing conditions and challenges of your everyday hospital work you need flexible equipment with versatile opportunities.



D-46411-2012

Dräger Savina® 300

The Dräger Savina® 300 combines the independence and power of a turbine-driven ventilation system with state-of-the-art ventilation modes. The large color touch screen and intuitive operating system that concentrates on essential features make configuration and operation very simple.

Technical Data

Patient type	Adults, and pediatric patients
Ventilation settings	
Ventilation mode	SPN-CPAP/PS PC-BIPAP/PS ¹⁾ (US: PC-SIMV/PS) PC-AC VC-SIMV/PS VC-AC (US: standard, All other countries: optional) Apnoea ventilation
Characteristics	<ul style="list-style-type: none"> - Non-invasive mask ventilation (NIV) - Invasive ventilation (Tube) - AutoFlow^{®2)}/Volume Guarantee – Automatic adjustment of the inspiratory flow in volume-controlled modes - AutoAdapt™ in NIV SPN-CPAP/PS, creates a linear pressure rise over a defined time in order to slowly ease patients into ventilation - Leakage compensation up to 180 L/min
Respiratory rate (RR)	5 to 50/min
Tidal volume (VT, VTi)	100 to 2,000 mL, BTPS ³⁾
Inspiration pressure (P _{insp})	Leakage valve: 5 to 40 mbar (or hPa or cmH ₂ O) Expiratory valve: 5 to 50 mbar (or hPa or cmH ₂ O)
Inspiration pressure limitation (P _{max})	Leakage valve: 5 to 40 mbar (or hPa or cmH ₂ O) Expiratory valve: 5 to 50 mbar (or hPa or cmH ₂ O)
PEEP/CPAP	3 to 20 mbar (or hPa or cmH ₂ O)
Pressure support (ΔP _{supp})	Leakage valve 0 to 37 mbar (or hPa or cmH ₂ O) Expiratory valve 0 to 47 mbar (or hPa or cmH ₂ O)
Pressure support rise time (ramp)	Auto, 0.1 to 2.0 s
Maximum inspiratory time for supported	0.4 to 10 s
Strokes (T_{imax})	
I:E ratio	1:39 to 2:1
Inspiration time (Ti)	0.3 to 8 s
O ₂ concentration (FiO ₂)	21 to 100 vol%
Multisense trigger criteria Trigger sensitivity	Off, normal, sensitive
Measured value displays	
Positive end exp. pressure (PEEP)	0 to 25 mbar (or hPa or cmH ₂ O)
Inspiratory peak pressure (PIP)	0 to 68 mbar (or hPa or cmH ₂ O)
Mean airway pressure (P _{mean})	0 to 68 mbar (or hPa or cmH ₂ O)
Minute volume (MV, MV _i)	0 to 60 L/min, BTPS
Inspiratory tidal volume (VT, VT _i)	0 to 4.0 L, BTPS
Respiratory rate (RR)	0 to 75/min
Total leakage volume (MV _{leak})	0–99 L/min, BTPS
Curve displays	
Airway pressure P _{aw} (t)	0 to 80 mbar
Flow (t)	-160 to +160 L/min
Alarms/monitoring	
Insp. Minute volume high	2 to 60 L/min
Insp. Minute volume high	0.1 to 39 L/min
Airway pressure P _{aw} high	10 to 55 mbar (or hPa or cmH ₂ O)
Tachypnoea monitoring (RR _{high})	10 to 74/min, off
Apnoea alarm time (Tapn)	5 to 60 seconds, off

Technical Data

Delay time until Paw alarm low !!! (Tdekon)	Non-invasive ventilation (NIV) 0, 15, 30, 60, 90, 120 s Invasive ventilation (tube) 0, 15, 30, 60 s
Performance data	
Control principle	Time or Flow-controlled and pressure or volume-controlled
Disconnection detection	automatic
Reconnection detection	automatic (also in standby)
Grid voltage	Grid voltage 100 V to 240 V AC, 50/60 Hz
Power input	At 100 V AC max. 1.1 A At 240 V AC max. 0.5 A
Maximum power consumption	90 W (in operation, when loading the internal battery)
Typical power consumption	35 W (in operation, when loading the internal battery)
Operating period of internal battery	60 min
Noise level	40 dB (A) (with typical ventilation)
Gas supply HPO	
O ₂ positive operating pressure	2.7 bar to 6 bar 270 kPa to 600 kPa 40 psi to 87 psi
O ₂ -Flow	0 to 120 L/min
Gas supply LPO	
O ₂ positive operating pressure	0 to 500 mbar (or hPa or cmH ₂ O)
O ₂ -Flow	0 to 10 L/min
Supply system for patient flow	Turbine
Maximum continuous inspiratory flow	180 L/min, BTPS (max. 120 L/min with 100 % O ₂)
Mechanical specification	
Dimensions (W x H x D)	Basic device: 175 x 275 x 385 mm (6.9 x 10.8 x 15.2 in) Trolley: 880 x 570 x 670 mm (34.7 x 22.4 x 67.06 cm)
Weight	5.5 kg (12.1 lbs) (basic device) 14.8 kg (32.6 lbs) (trolley)
Screen	TFT colour screen 13.7 cm (5.4 in)
Device outputs	
Digital output RS232	Dräger MEDIBUS or MEDIBUS.X protocol
Nurse call	optional
<p>1) BIPAP = registered trademark used under license 2) AutoFlow® = Dräger trademark 3) BTPS = Body Temperature Pressure Saturated</p>	

Ordering Information

Name	Description	Order-No.
Breathing Circuits	VentStar® Carina® LeakV	MP00312
	VentStar® Carina® ExpV	MP00313
	Disposable Expiration Valve Carina®	MP00220
	SyncVent Carina®	MP00224
	HEPA filter	57 03 105
Filters/HMEs		

Ordering Information

Masks	Filter CareStar® 30	MP01770
	ClassicStar® NIV Full-Face Mask with SE, Size S	MP01573
	ClassicStar® NIV Full-Face Mask with SE, Size M	MP01574
	ClassicStar® NIV Full-Face Mask with SE, Size L	MP01575
	NovaStar® NIV Full-Face Mask with SE, Size S	MP01579
	NovaStar® NIV Full-Face Mask with SE, Size M	MP01580
	NovaStar® NIV Full-Face Mask with SE, Size L	MP01581

Notes

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