Dräger Savina® 300
Sub-Acute Care Ventilation

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.

D-46411-2012

Dräger. Technology for Life®

Benefits

Ease-of-use

- Intuitive for simple operation and quick configuration
- Dräger-wide standardized user interface provides confidence in use and reduces training time
- Quick operational readiness with an automatic device check
- Intelligent alarm handling for a quick response to patient alarm situations
- Smooth and sealed surfaces for easy cleaning and disinfection

High ventilation performance

- Huge range of ventilation modes (e.g. PC-APRV, VC-MMV, AutoFlow)
- Stress-free spontaneous breathing with excellent trigger response time thanks to the turbine
- Free breathing with AutoFlow in volume constant ventilation at a minimum pressure level
- Advanced non-invasive ventilation (NIV)
- Extended graphic capabilities with loops, trends and logbook
- Pediatric ventilation with enhanced trigger detection and low tidal volumes down to 20 mL

Independent from gas and power supply

- Built-in-turbine with rapid response time, continuous high flow delivery of up to 250 l/min
- Five hours of independent ventilation due to built-in and external batteries
- Transport Supply Unit (TSU) can be quickly attached for ergonomic handling of gas cylinders
- Bed coupling for quick connection between ventilator and patient bed
- Low Pressure Oxygen (LPO) inlet for ventilation without central gas supply

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.

MT-0487-2007

Dräger Carina®

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.

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-25283-2009

Dräger PulmoVista® 500

Making ventilation visible. Put the power of Electrical Impedance Tomography (EIT) to work for you and your patients. With the PulmoVista® 500, you can visualise regional air distribution within the lungs - non-invasive, in real time and directly at bedside.

Technical Data

Ventilation modes	
	– VC-CMV / VC-AC – VC-SIMV – VC-MMV (optional) – PC-APRV (optional) – PC-BIPAP[1] / PC-SIMV (optional) – PC-AC (optional) – SPN-CPAP
Optional Enhancements	
	– AutoFlow – Automatic adaption of the inspiratory flow in volume orientated ventilation modes. – NIV – Non Invasive Ventilation with optimized alarm systems and automatic leakage compensation. – Capnography - Mainstream CO_2 measurement – MonitoringPlus - Loops, Trends, user Logbook – LPO - Low Pressure Oxygen. Independant oxygen supply, e.g. with an O_2 concentrator – Nurse call - Connection for transmitting alarm signals to a central, alarm system
Patient type	Adult, pediatric
Respiratory rate	2/min to 80/min
Inspiration time	0.2 to 10 s
Tidal volume	0.05 to 2.0 L, BTPS[2] with option PediatricPlus 0.02 to 2.0 L
Inspiratory pressure	1 to 99 mbar (or hPa or cmH_2O)
PEEP/interm. PEEP	0 to 50 mbar (or hPa or cmH_2O)
Pressure support/ΔPsupp	0 to 50 mbar (or hPa or cmH_2O) (relative to PEEP)
Flow acceleration	5 to 200 mbar/s (or hPa/s or cmH_2O/s)
O_2-concentration	21 to 100 Vol. %
Trigger sensitivity (Flow trigger)	1 to 15 L/min
Inspiratory termination criterion	5 to 75 % PIF (peak inspiratory flow)
PC-APRV (optional)	Inspiratory time T_{high} 0.2 to 22.0 s Expiratory time T_{low} 0.1 to 22.0 s Inspiratory pressure P_{high} 1 to 95 mbar (or hPA or cmH_2O) Expiratory pressure P_{low} 0 to 50 mbar (or hPA or cmH_2O)
Displayed measured values	
Airway pressure measurements	Max. airway pressure, plateau pressure, mean airway pressure, PEEP 0 to 99 mbar (or hPa or cmH_2O)
Minute volume (MV)	Total MV, spontaneous MV 0 to 99 L/min, BTPS
Tidal volume	Inspiratory VT, expiratory VTe, VT_{spon} 0 to 3999 mL, BTPS
Total respiratory rate	Total and spontaneous respiratory rate, 0 to 150/min
Inspiratory O_2-concentration	21 to 100 % Vol.
End-tidal CO_2 concentration $EtCO_2$	0 to 100 mmHg (or 0 to 13.2 Vol% or 0 to 13.3 kPa)
Breathing gas temperature	18 to 48 °C (64.4 to 118.4 °F)
Curve displays	Paw(t), Flow (t), Tidal volume (t), CO_2 (t)
Ventilation ratio (I:E)	1:150 to 150:1
Compliance C	0.5 to 200 mL/mbar (or mL/hPa or mL/cmH_2O)
Resistance R	3 to 300 mbar/L/s (or hPa/L/s or cmH_2O/L/s)
Leakage minute volume MVleak	0 to 100 %
Rapid shallow breathing RSB	0 to 9999 (1/min/L)
Special Maneuvers (optional)	– Intrinsic PEEP PEEPi 0 to 100 mbar (or hPa or cmH_2O) – Exp. Hold

Technical Data

Alarms	
Airway pressures	high / low
Expiratory minute volume	high / low
Tidal volume	high / low
Apnea-alarm time	15 to 60 sec
Spontaneous breathing frequency	high
Inspiratory O_2-concentration	high / low
Inspiratory breathing gas temperature	high
Inspiratory breathing gas temperature	high
$EtCO_2$	high / low

Performance data	
Maximum (continuous) inspiratory flow	250 L/min
Valve response time T0...90	≤ 5 ms
Control principle	time-cycled, volume-controlled, pressure limited
Safety valve opening pressure	120 mbar (or hPa or cmH_2O)
Emergency valve	automatically enables spontaneous breathing with filtered ambient air if air and O_2 supply should fail.
Automatic gas switch-over function if O_2 supply fails	
Output for pneumatic medication nebuliser	synchronized with inspiration
Leak compensation	optimized patient-ventilator synchrony adjusts the flow trigger and the inspiratory termination criteria for leaks. – tube application: up to 10L/min – NIV VC-modes: up to 25 L/min – NIV PC-modes: unlimited

Operating data	
Mains power connection	100 V to 240 V, 50/60 Hz
Current consumption	max. 1.3 A at 240 V, max. 3.4 A at 100 V
Battery	internal typically 45 min (optional extension up to 5 h)
Turbine exchange interval	8 years, with no limit in operating hours during this interval

Digital machine outputs	
	Digital output and input via an RS 232 C interface
	Dräger MEDIBUS and MEDIBUS.X

Gas supply	
Air	Turbine technology
O_2 gas supply	3 bar (43.5 psi) - 10 % up to 6 bar (87 psi)

Dimensions and weights	
Dimensions W x H x D (without trolley)	460 x 383 x 364 ±2 mm (18.11 x 15.08 x 14.33 ±0.08 inch)
Weight (basic device)	approx. 26 kg (57.3 lbs) without trolley
Diagonal screen size	12" TFT color touch screen

[1] BIPAP – Trademark used under licence

[2] BTPS – Body Temperature Pressure Saturated. Measured values relating to the conditions of the patient lung (98.6 °F), steam-saturated gas, ambient pressure.

[3] 1 mbar = 100 Pa,

AutoFlow® – Trademark by Dräger