Dräger Savina® 300 Select
ICU Ventilation and Respiratory Monitoring

The Dräger Savina® 300 Select (in this configuration) combines the independence and power of a turbine-driven ventilation system with sophisticated ventilation modes. Its broad variety of features and accessories supports a patient range from babies* to adults. The large colour touch screen and intuitive operating system that concentrates on established high class features make configuration and operation very simple.

D-14953-2019

* starting from 5 kg bodyweight

Dräger. Technology for Life®

Benefits

Ease-of-use

- Intuitive for simple operation and quick configuration
- Dräger-wide standardised user interface provides confidence in use and reduces training time
- Quick operational readiness with an automatic device check
- Safe and fast initial start of ventilation thanks to pre-set start configuration based on patient height or patient category
- Intelligent alarm handling for a quick response to patient alarm situations
- Smooth and sealed surfaces for easy cleaning and disinfection

High ventilation performance

- Sophisticated ventilation modes for critically ill patients (e.g. PC-APRV, VC-MMV, AutoFlow®)
- Enhanced trigger detection and precise ventilation settings allow the ventilation of babies starting from 5 kg bodyweight
- Automatic Tube Compensation ATC® reduces the work of breathing for intubated patients with spontaneous breathing[1]
- 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
- Non-invasive ventilation (NIV) available in all modes with a very quick response times to patient efforts
- No device change needed in case of altered ventilation therapy: O_2-therapy allows oxygen application with constant flow
- Extended graphic capabilities with loops, trends and logbook

Independent from gas and power supply

- Built-in-turbine with rapid response time and 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

[1] Respiratory comfort of automatic tube compensation and inspiratory pressure support in conscious humans Guttmann, J. et al, Intensive Care Medicine 1997, Vol. 23, No.11, 1119-1124

Related Products

D-3602-2019

Dräger Evita® V800

Experience the next level of ventilator operation. The Evita® V800 combines high performance ventilation with an aesthetic design enabling quick and efficient operation. From the first onset of a lung protective ventilation until the integration of a patient care-centred intensive care workplace.

D-12090-2019

Dräger Evita® V600

Experience the next level of ventilator operation. The Evita® V600 combines high performance ventilation with an aesthetic design enabling quick and efficient operation. From the first onset of a lung protective ventilation until the integration of a patient care-centred intensive care workplace.

Technical Data

Ventilation modes	
Volume-controlled ventilation modes	– VC-CMV / VC-AC – VC-SIMV – VC-MMV
Pressure-controlled ventilation modes	– PC-APRV – PC-BIPAP[1] / PC-SIMV+ – PC-AC
Support of spontaneous breathing	– SPN-CPAP

Enhancements	
	– AutoFlow® – Automatic adaption of the inspiratory flow in volume orientated ventilation modes. – NIV – Non Invasive Ventilation with optimised alarm systems and automatic leakage compensation. – Peadiatric Plus – allowing the ventilation of babies starting from 5 kg bodyweight – Capnography – Mainstream CO_2 measurement – MonitoringPlus – Loops, Trends, user Logbook – LPO – Low Pressure Oxygen. Independent oxygen supply, e.g. with an O_2 concentrator – Nurse call – Connection for transmitting alarm signals to a central, alarm system – Automatic tube compensation ATC® – Automatic tube compensation regulates the airway pressure to the tracheal level – O_2-therapy – continuous flow is applied via an oxygen mask, a hood or nasal cannula for patients with independent breathing
Patient type	Adult, paediatric patients, and babies starting from 5 kg bodyweight
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 PaediatricPlus 0.02 to 2.0 L, BTPS
Inspiratory pressure	1 to 99 mbar (or hPa or cmH_2O) (1 mbar = 100 Pa)
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 (otional)	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)
O_2-therapy	Constant flow Flow (BTPS) 2 to 100 L/min in increments of 1 L/min O_2 concentration FiO_2 21 to 100 Vol% in increments of 1 Vol%
Automatic tube compensation ATC	Tube type: Endotracheal tube ET or tracheostomy tube Trach. Inner diameter of the tube 3.5 to 12.0 mm in increments of 0.5 mm

Technical Data

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
Tidal volume per kg of body weight (VT / IBW)	0 to 99.9 mL/kg
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 Manoeuvres	– Intrinsic PEEP PEEPi 0 to 100 mbar (or hPa or cmH_2O) – Exp. Hold
Loops (MonitoringPlus)	– Pressure / Volume – Volume / Flow – Flow / Pressure – Volume / CO_2 – Ptrach – Volume – Flow – Ptrach

Alarms	
Airway pressures	high / low
Expiratory minute volume	high / low
Tidal volume	high / low
Apnoea-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	synchronised with inspiration
Leak compensation	synchronised patient-ventilator synchrony adjusts the flow trigger and the inspiratory termination criteria for leaks. – tube application: up to 10 L/min – NIV VC-modes: up to 25 L/min – NIV PC-modes: unlimited

Technical Data

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 (with a manufacturer guarantee of 8 years for the turbine[4])
O_2 gas supply	3 bar (43.5 psi) – 10 % up to 6 bar (87 psi)

Dimensions and weights	
Dimentions (W x H x D)	Basic device: 460 x 383 x 364 ±2 mm (18,11 x 15,08 x 14,33 ±0,08 in) Device with Savina 300 trolley: 577 x 1295 x 677 ±5 mm (22,72 x 50,98 x 26,65 ±0,20 in) Device with Savina 300 compact trolley: 577 x 1295 x 677 ±5 mm (22,72 x 50,98 x 26,65 ±0,20 in)
Weight (basic device)	approx. 26 kg (57.3 lbs) without trolley
Diagonal screen size	12" TFT colour 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

[4] Limited Manufacturer Guarantee subject to conditions specified in the Instructions for Use. Applies only to devices purchased after 1/1/2015.

Some functionalities are available as an option.

Notes

Notes

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