

Dräger Savina® 300

The 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

Ventilation modes	- VC-CMV / VC-AC - VC-SIMV - VC-MMV (optional) - PC-APRV (optional)	- PC-BIPAP¹) / 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 CO₂ measurement - MonitoringPlus - Loops, Trends, user Logbook - LPO - Low Pressure Oxygen. Independant oxygen supply - 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 ¹ with option PediatricPlus 0.02 to 2.0 L	
Inspiratory pressure	1 to 99 mbar (or hPa or cmH ₂ O)	
PEEP/interm. PEEP	0 to 50 mbar (or hPa or cmH ₂ O)	
Pressure support/ ΔP_{supp}	0 to 50 mbar (or hPa or cmH ₂ O) (relative to PEEP)	
Flow acceleration	5 to 200 mbar/s (or hPa/s or cmH ₂ O/s)	
O ₂ -concentration	21 to 100 Vol. %	
Trigger sensitivity	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 ₂ O) Expiratory pressure P _{low} 0 to 50 mbar (or hPa or cmH ₂ O)	



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Displayed measured values

Airway pressure measurements	Max. airway pressure, plateau pressure, mean airway pressure, PEEP 0 to 99 mbar (or hPa or cmH ₂ O)
Minute volume (MV)	Total MV, spontaneous MV 0 to 99 L/min, BTPS
Tidal volume	Inspiratory VT, expiratory VTe, VT _{spont} 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 ₂ O)
Resistance R	3 to 300 mbar/L/s (or hPa/L/s or cmH ₂ O/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 ₂ O) – Exp. Hold

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
EtCO ₂	high / low

Performance data

Maximum (continuous) inspiratory flow	250 L/min
Valve response time	≤ 5 ms
Control principle	time-cycled, volume-controlled pressure, pressure-limited
Safety valve opening pressure	120 mbar (or hPa or cmH ₂ O)
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 nebulizer	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	Advanced turbine technology
O ₂ gas supply	3 bar (43.5 psi) to 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 inches)
Weight (basic device)	approx. 26 kg (57.3 lbs) without trolley
Diagonal screen size	12" TFT color touchscreen

¹⁾ BIPAP – Trademark used under license

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

CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany

www.draeger.com

Manufacturer:

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany

USA

Draeger, Inc.
3135 Quarry Road
Telford, PA 18969-1042
Tel +1 800 4DRAGER
(+1 800 437 2437)
Fax 1 215 723 5935
info.usa@draeger.com

CANADA

Draeger Medical Canada Inc.
2425 Skymark Avenue, Unit 1
Mississauga, Ontario, L4W 4Y6
Tel +1 905 212-6600
Toll-free +1 866 343 2273
Fax +1 905 212-6601
Canada.support@draeger.com

Locate your Regional Sales
Representative at:
www.draeger.com/contact

