Dräger Savina® 300 Classic

The Dräger Savina 300 Classic combines the independence and power of a turbine-driven ventilation system with a wide range of ventilation modes. The large color touch screen and intuitive operating system make operation simple.

TECHNICAL DATA

Ventilation modes	
Volume-controlled ventilation modes	– VC-CMV / VC-AC – VC-SIMV
Pressure-controlled ventilation modes	– PC-SIMV+ – PC-AC
Support of spontaneous breathing	– SPN-CPAP

Optional Enhancements	
AutoFlow®	Automatic adaption of the inspiratory flow in volume orientated ventilation modes.
Capnography	Mainstream CO_2 measurement
LPO	Low Pressure Oxygen. Independent oxygen supply, e.g. with an O_2 concentrator
MonitoringPlus	Loops, Trends, user Logbook
NIV	Non Invasive Ventilation with optimized alarm systems and automatic leakage compensation.
Nurse call	Connection for transmitting alarm signals to a central, alarm system
Special Maneuvers	– Intrinsic PEEP – Exp. Hold

Therapy Settings	
Patient type	Adults, adolescents, children, infants
Respiratory rate	2/min to 80/min
Inspiration time	0.2 to 10 s
Tidal volume	0.05 to 2.0 L, BTPS[1]
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)

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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_2O)
Minute volume (MV)	Total MV, spontaneous MV 0 to 99 L/min, BTPS
Tidal volume	Inspiratory VT, expiratory VTe, VTspon 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)
Intrinsic PEEP	PEEPi 0 to 100 mbar (or hPa or cmH_2O)
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
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 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 nebulizer	synchronized with inspiration
Leak compensation	synchronized 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

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

Some functionalities are available as an option.

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