

Dräger Savina

Clinical advancement, ease of use,
versatility – in and out of the ICU



TECHNICAL DATA

SAVINA

Ventilation modes	<ul style="list-style-type: none"> – IPPV (CMV), IPPVAssist (CMVAssist) – SIMV, SIMVASB (SIMV/PS) – CPAP, CPAPASB (CPAP/PS) – BIPAP¹⁾, (PCV+) (optional), BIPAP¹⁾ASB (PCV+/PS) (optional)
Enhancements	<ul style="list-style-type: none"> – NIV – Non Invasive Ventilation with optimized alarm system and automatic leakagecompensation (optional) – AutoFlow[®] – Automatic adaptation of the inspiratory flow in volume orientated ventilation modes (optional). – LPO - Low Pressure Oxygen. Independant oxygen supply, e.g. with an O₂ concentrator (optional) – Graphic screen - Advanced ventilation monitoring (optional), – Nurse call - Connection for transmitting alarm signals to a central alarm system (optional)
Patient type	Adult, pediatric
Ventilation frequency	2 to 80 bpm
Inspiration time	0.2 to 10 s
Tidal volume	0.05 to 2.0 L, BTPS ²⁾
Inspiratory flow	0 to 180 L/min
Inspiratory pressure	0 to 99 mbar ³⁾ (cmH ₂ O)
PEEP/interm. PEEP	0 to 35 mbar (cmH ₂ O)
Pressure support/ASB	0 to 35 mbar (cmH ₂ O) (relative to PEEP)
Flow acceleration	5 to 200 mbar/s (cmH ₂ O/s)
O ₂ -concentration	21 to 100 Vol. %
Trigger sensitivity	1 to 15 L/min
Measured value display	
Airway pressure measurements	Peak pressure, plateau pressure, mean airway pressure, PEEP 0 -100 mbar (cmH ₂ O)
Minute volume (MV)	Total MV, spontaneous MV 0 to 99 L/min, BTPS
Tidal volume VT	Inspiratory VT, expiratory VT 0 to 3999 mL, BTPS
Breathing frequency	Total and spontaneous breathing frequency, 0 -150 bpm
Inspiratory O ₂ -concentration	21 to 100 Vol. %
Breathing gas temperature	18 to 48 °C (sensor optional)
Curve displays	Airway pressure / time, flow / time
Ventilation ratio (I:E)	150:1 to 1:150



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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

Performance data

Maximum flow for pressure assist/ spontaneous breathing	180 L/min
Valve response time T _{0...90}	≤ 5 ms
Control principle	time-cycled, volume-constant, pressure-controlled
Safety valve opening pressure	100 mbar (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 medicament nebuliser	synchronized with inspiration

Operating data

Main power connection	100 V to 240 V, 50/60 Hz AC, 10 to 36 V DC
Typical power consumption	100 W
Internal battery	approx. 60 min (optional extension up to 7 h)

Digital machine outputs

Digital output and input via an RS 232 C interface, Dräger Medibus standard	
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Gas supply

Air	Turbine technology
O ₂ gas supply	3 bar (39 psi) to 10 % up to 6 bar (87 psi)

Dimensions and weights

Dimensions W x H x D (without trolley)	380 x 383 x 358 mm (15.0 x 156.1 x 14.1 inches)
Weight (basic device)	approx. 24 kg (53 lbs.)
Diagonal screen size	6.1" TFT color screen

¹⁾ BIPAP – Trademark used under licence

²⁾ BTPS – Body Temperature Pressure Saturated. Measured values relating to the conditions of the patient lung, Body temperature 37 °C, steam-saturated gas, ambient pressure.

³⁾ 1 mbar = 100 Pa, AutoFlow®, Trademark by Dräger

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The quality management system at Dräger Medical GmbH is certified according to ISO 13485, ISO 9001 and Annex II.3 of Directive 93/42/EEC (Medical devices).