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.
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

**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.

**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.

**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.

**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 / 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, e.g. with an O2 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 with option PediatricPlus 0.02 to 2.0 L

### Inspiratory pressure
- 1 to 99 mbar (or hPa or cmH2O)

### PEEP/interm. PEEP
- 0 to 50 mbar (or hPa or cmH2O)

### Pressure support/ΔPsupp
- 0 to 50 mbar (or hPa or cmH2O) (relative to PEEP)

### Flow acceleration
- 5 to 200 mbar/s (or hPa/s or cmH2O/s)

### O2-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 $T_{in}$, 0.2 to 22.0 s
- Expiratory time $T_{ex}$, 0.1 to 22.0 s
- Inspiratory pressure $P_{in}$, 1 to 95 mbar (or hPa or cmH2O)
- Expiratory pressure $P_{ex}$, 0 to 50 mbar (or hPa or cmH2O)

### Displayed measured values

#### Airway pressure measurements
- Max. airway pressure, plateau pressure, mean airway pressure, PEEP 0 to 99 mbar (or hPa or cmH2O)

#### Minute volume (MV)
- Total MV, spontaneous MV 0 to 99 L/min, BTPS
- Inspiratory VT, expiratory VTe, VTsp, 0 to 3999 mL, BTPS

#### Total respiratory rate
- Total and spontaneous respiratory rate, 0 to 150/min

#### Inspiratory O2-concentration
- 21 to 100 % Vol.

#### End-tidal CO2 concentration EtCO2
- 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), CO2 (t)

#### Ventilation ratio (I:E)
- 1:150 to 150:1

#### Compliance C
- 0.5 to 200 mL/mbar (or mL/hPa or mL/cmH2O)

#### Resistance R
- 3 to 300 mbar/L/s (or hPa/L/s or cmH2O/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 cmH2O)
- Exp. Hold
# Technical Data

## Alarms

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airway pressures</td>
<td>high / low</td>
</tr>
<tr>
<td>Expiratory minute volume</td>
<td>high / low</td>
</tr>
<tr>
<td>Tidal volume</td>
<td>high / low</td>
</tr>
<tr>
<td>Apnea-alarm time</td>
<td>15 to 60 sec</td>
</tr>
<tr>
<td>Spontaneous breathing frequency</td>
<td>high</td>
</tr>
<tr>
<td>Inspiratory O₂-concentration</td>
<td>high / low</td>
</tr>
<tr>
<td>Inspiratory breathing gas temperature</td>
<td>high</td>
</tr>
<tr>
<td>EtCO₂</td>
<td>high / low</td>
</tr>
</tbody>
</table>

## Performance Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum (continuous) inspiratory flow</td>
<td>250 L/min</td>
</tr>
<tr>
<td>Valve response time T₀…₉₀</td>
<td>≤ 5 ms</td>
</tr>
<tr>
<td>Control principle</td>
<td>time-cycled, volume-controlled, pressure limited</td>
</tr>
<tr>
<td>Safety valve opening pressure</td>
<td>120 mbar (or hPa or cmH₂O)</td>
</tr>
<tr>
<td>Emergency valve</td>
<td>automatically enables spontaneous breathing with filtered ambient air if air and O₂ supply should fail.</td>
</tr>
<tr>
<td>Automatic gas switch-over function if O₂ supply fails</td>
<td>synchronized with inspiration</td>
</tr>
<tr>
<td>Output for pneumatic medication nebuliser</td>
<td>optimized patient-ventilator synchrony adjusts the flow trigger and the inspiratory termination criteria for leaks.</td>
</tr>
<tr>
<td>- tube application: up to 10L/min</td>
<td></td>
</tr>
<tr>
<td>- NIV VC-modes: up to 25 L/min</td>
<td></td>
</tr>
<tr>
<td>- NIV PC-modes: unlimited</td>
<td></td>
</tr>
<tr>
<td>Leak compensation</td>
<td></td>
</tr>
</tbody>
</table>

## Operating Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains power connection</td>
<td>100 V to 240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Current consumption</td>
<td>max. 1.3 A at 240 V, max. 3.4 A at 100 V</td>
</tr>
<tr>
<td>Battery</td>
<td>internal typically 45 min (optional extension up to 5 h)</td>
</tr>
<tr>
<td>Turbine exchange interval</td>
<td>8 years, with no limit in operating hours during this interval</td>
</tr>
</tbody>
</table>

## Digital machine outputs

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

## Gas supply

<table>
<thead>
<tr>
<th>Component</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air</td>
<td></td>
</tr>
<tr>
<td>O₂ gas supply</td>
<td>3 bar (43.5 psi) - 10 % up to 6 bar (87 psi)</td>
</tr>
</tbody>
</table>

## Dimensions and weights

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions W x H x D (without trolley)</td>
<td>460 x 383 x 364 ±2 mm (18.11 x 15.08 x 14.33 ±0.08 inch)</td>
</tr>
<tr>
<td>Weight (basic device)</td>
<td>approx. 26 kg (57.3 lbs) without trolley</td>
</tr>
<tr>
<td>Diagonal screen size</td>
<td>12&quot; TFT color touch screen</td>
</tr>
</tbody>
</table>

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