

# Dräger Evita® V800 Intensive Care Ventilation

# Technical Data

Patient type	Adults, pediatrics, neonates		
Ventilation settings			7 2 2 3
Ventilation modes	Volume controlled ventila	ation:	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	- VC-CMV	- VC-AC	The state of the s
	- VC-SIMV	- VC-MMV	Diagon St.
	Pressure controlled ventilation:		
	- PC-CMV	- PC-AC	
	- PC-BIPAP/SIMV+	- PC-APRV	
	- PC-SIMV	- PC-PSV	
	Support of spontaneous breathing:  - SPN-CPAP/PS - SPN-CPAP		
	- SPN-CPAP/VS	- SPN-CPAP - SPN-PPS	
Enhancements	- AutoFlow®/Volume Gu		
Enhancements	<ul> <li>Variable Pressure Sup</li> </ul>		
	<ul> <li>Smart Pulmonary View</li> </ul>	•	
	<ul> <li>Automatic Tube Comp</li> </ul>	ensation (ATC®)	H 1978-201
Special procedures	- SmartCare®/PS 2.0 -	Automated clinical	n n
	protocol in SPN-CPAF	P/PS	Dräger Evita® V800
	- Low Flow PV Loop		
	- Suction maneuver	– P0.1	
	<ul><li>Manual inspiration/hol</li><li>Medication nebulizatio</li></ul>		
Thereaches			
Therapy types	- Invasive ventilation (Tube/Tracheostomy) - Non-invasive ventilation (NIV)		
	- O <sub>2</sub> therapy		
Respiratory rate (RR)	Adult 0.5 to 98/min, pediatrics 0.5 to 150/min, neonates 0.5 to 150/min		
Inspiratory time (Ti)	Adults 0.11 to 10 sec, pediatrics 0.1 to 10 sec, neonates 0.1 to 10 sec		
Tidal volume (VT)	Adults 0.1 to 3.0 L, pediatrics 0.02 to 0.3 L, neonates 0.002 to 0.1 L		
Inspiratory flow (Flow)	Adults 2 to 120 L/min, pediatrics 2 to 30 L/min		
Maximum flow during non-invasive ventilation of neonates	0 to 30 L/min		
(Flow max)			
Inspiratory pressure (Pinsp)	1 to 95 mbar (or hPa or cmH <sub>2</sub> O)		
Pressure limitation (Pmax)	2 to 100 mbar (or hPa or	r cmH <sub>2</sub> O)	
Positive end-expiratory pressure (PEEP)	0 to 50 mbar (or hPa or cmH <sub>2</sub> O)		
Additional intermittent PEEP for sighs (ΔintPEEP)	0 to 20 mbar (or hPa or $cmH_2O$ )		
Pressure support (Psupp)	0 to 95 mbar (or hPa or	cmH <sub>2</sub> O)	
Pressure rise time (Slope)	Adults 0 to 2 sec, pediatrics 0 to 2 sec, neonates 0 to 1.5 sec		
O <sub>2</sub> concentration (FiO <sub>2</sub> )	21 to 100 Vol.%		
Trigger threshold (Flow trigger)	0.2 to 5 L/min		
Automatic Tube Compensation (ATC®)	Inner diameter of the tube Ø:		
	- Endotracheal tube ET		
	Adults 5 to 12 mm (0.2 to 0.47 inch), pediatrics 2 to 8 mm (0.08 to 0.31 inch),		
	neonates 2 to 5 mm (0.08 to 0.2 inch)  - Tracheostomy tube (Trach.)		
	Adults 5 to 12 mm (0.2 to 0.47 inch), pediatrics 2.5 to 8 mm (0.1 to 0.31 inch)		
	Degree of tube compe	• •	(2.7. 60 6.66.7)

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Airway Pressure Release Ventilation (APRV)			
Inspiratory time (Thigh)	0.1 to 30 sec		
Expiratory time (Tlow)	0.05 to 30 sec		
Maximum duration of lower pressure level (Tlow max)	0.05 to 30 sec		
Upper pressure level (Phigh)	1 to 95 mbar (or hPa or cmH <sub>2</sub> O)		
Lower pressure level (Plow)	0 to 50 mbar (or hPa or cmH <sub>2</sub> O		
Expiration termination criterion (in relation to the peak	1 to 80% (PEF)		
expiratory flow) (Exp. term.)			
Proportional Pressure Support (SPN-PPS)			
Flow-based assistance (Flow Assist)	Adults 0 to 30 mbar/L/s (or hPa/L/s or cmH <sub>2</sub> O/L/s)		
	Pediatrics 0 to 100 mbar/L/s (or hPa/L/s or cmH <sub>2</sub> O/L/s)		
	Neonates 0 to 300 mbar/L/s (or hPa/L/s or cmH <sub>2</sub> O/L/s)		
Volume-based assistance (Vol. Assist)	Adults 0 to 100 mbar/L (or hPa/L or cmH <sub>2</sub> O/L)		
Corresponds to compliance compensation	10000 to 10 mL/mbar (or mL/hPa or mL/cmH <sub>2</sub> O)		
	Pediatrics 0 to 1000 mbar/L (or hPa/L or cmH <sub>2</sub> O/L)		
Corresponds to compliance compensation	10000 to 1 mL/mbar (or mL/hPa or mL/cmH <sub>2</sub> O)		
	Neonates 0 to 4000 mbar/L (or hPa/L or cmH <sub>2</sub> O/L)		
Corresponds to compliance compensation	1000 to 0.3 mL/mbar (or mL/hPa or mL/cmH <sub>2</sub> O)		
O <sub>2</sub> therapy			
Continuous flow	2-80 L/min (adults), 2-30 L/min (pediatrics), 2-15 L/min (neonates)		
Pmax	2-55 mbar (or hPa or cmH <sub>2</sub> O)		
O <sub>2</sub> concentration, FiO <sub>2</sub>	21 to 100 Vol%		
Displayed measured values			
Airway pressure measurement	- Plateau pressure (Pplat)		
	- Positive end-expiratory pressure (PEEP)		
	- Peak Inspiratory Pressure (PIP)		
	- Mean airway pressure (Pmean)		
	- Minimum airway pressure (Pmin)		
	- Range -60 to 120 mbar (or hPa or cmH₂O)		
Flow measurement			
Minute volume measurement	- Expiratory minute volume, overall, not leakage-corrected (MVe)		
	- Inspiratory minute volume, overall, not leakage-corrected (MVi)		
	- Minute volume, leakage-corrected (MV)		
	- Mandatory expiratory minute volume, overall, not leakage-corrected (MVemand)		
	- Spontaneous expiratory minute volume, overall, not leakage-corrected (MVespon)		
	- Range 0 to 99 L/min BTPS		
Tidal volume measurement	- Tidal Volume, leakage-corrected (VT)		
	<ul> <li>Mandatory inspiratory tidal volume, not leakage-corrected (VTimand)</li> </ul>		
	<ul> <li>Mandatory expiratory tidal volume, not leakage-corrected (VTemand)</li> </ul>		
	<ul> <li>Spontaneous inspiratory tidal volume, not leakage-corrected (VTispon)</li> </ul>		
	- Range 0 to 5500 mL BTPS		
Respiratory rate measurement	- Respiratory rate (RR)		
	- Mandatory respiratory rate (RRmand)		
	- Spontaneous respiratory rate (RRspon)		
	- Range 0/min to 300/min		
O <sub>2</sub> measurement (inspiratory side)	Inspiratory O <sub>2</sub> concentration (FiO <sub>2</sub> ), Range 18 to 100 Vol%		
CO <sub>2</sub> measurement in main flow (adults and pediatrics only)	End-tidal CO <sub>2</sub> concentration (etCO <sub>2</sub> ), Range 0 to 120 mmHg		
Displayed calculated values			
	Range 0 to 650 mL/mbar (or mL/hPa or mL/cmH <sub>2</sub> O)		
Dynamic compliance (Cdyn)			
Dynamic compliance (Cdyn) Resistance (R)	Range 0 to 1000 mbar/L/s (or hPa/L/s or cmH <sub>2</sub> O/L/s)		
	Range 0 to 1000 mbar/L/s (or hPa/L/s or cmH <sub>2</sub> O/L/s) Range 0 to 99 L/min, BTPS		
Resistance (R)			
Resistance (R) Leakage minute volume (MVleak)	Range 0 to 99 L/min, BTPS		
Resistance (R) Leakage minute volume (MVleak) Rapid shallow breathing index (RSBI)	Range 0 to 99 L/min, BTPS  Adults 0 to 9999 (/min/L), pediatrics 0 to 9999 (/min/L), neonates 0 to 300 (/min/L)		

# Technical Data

Airway pressure Paw (t) -30 to 100 mbar (or hPa or cmH₂O)  Flow (t) -180 to 180 L/min  Volume V (t) 2 to 3,000 mL  CO₂ (t) 0 to 120 mmHg  igh/Low igh igh/Low to 60 seconds, Off to 60 seconds  me-cycled, volume-constant, pressure-controlled to 20 expiratory cycles eatment duration: 5, 10, 15, 30 minutes, continuously (∞) ax. 180 L/min, BTPS  dults 2 L/min, pediatrics 3 L/min, neonates 6 L/min	
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dults 2 L/min, pediatrics 3 L/min, neonates 6 L/min	
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live remains open if medical compressed air supply fails (supply gas flow is not sufficient to provide the	
spiratory flow required), enables spontaneous breathing with ambient air.	
utomatic	
utomatic	
ax. 3 minutes	
ax. 2 minutes	
ax. 2 minutes	
to 2	
daptive CPAP system with high initial flow	
0 V to 240 V, 50/60 Hz	
ax. 1.3 A	
Max. 3.0 A	
oprox. 8 to 24 A peak, approx. 6 to 17 A quasi-RMS	
00 W	
oprox. 100 W ventilation unit with display unit, approx. 180 W with GS500	
7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi)	
7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi)	
pe NiMH battery, sealed, exchange interval 2 years	
Without GS500 30 minutes, with GS500 15 minutes	
Type LFP batteries, exchange interval 4 years	
/ithout GS500 240 minutes, with GS500 120 minutes	
and new and ventilation is typical.	
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## **Technical Data**

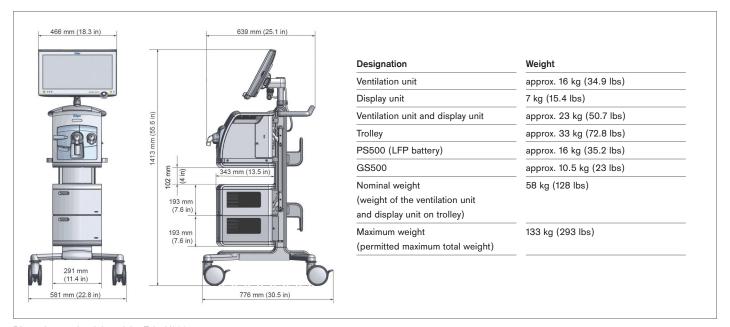
### Screen values

Evita V800 diagonal screen size	18.3 inches	
Input/Output ports	- 3 external RS232 (9-pin) connectors	
	<ul> <li>4 USB ports for data collection</li> </ul>	
	– 1 LAN port	
Touchscreen technology	Capacitive touchscreen with glass front	
Aspect ratio	16:9	
Resolution	1366 x 768 pixels	
Digital machine output	Digital output and input via an RS232 C interface	
	Dräger MEDIBUS® and MEDIBUS®X	

BTPS - Body Temperature Pressure Saturated. Measured values relating to the conditions of the patient lung 37° C (98.6° F), steam-saturated gas, ambient pressure. 1 mbar = 100 Pa

Some functionalities are available as an option.

## Physical Specifications



Dimensions and weights of the Evita V800

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