

Workstation Neonatal Care – Dräger Babylog[®] VN500

For generations to come. The Babylog[®] VN500 combines our years of experience with the latest technology. The result is a complete, integrated ventilation solution for the tiniest of patients. Move on toward new frontiers today and be prepared for the developments of tomorrow.



TECHNICAL DATA

Patient type	Neonatal and pediatric patients	
ventilation settings		6
Ventilation modes	Pressure-controlled ventilation:	1.24
	- PC-CMV	1
	– PC-AC	1
	- PC-SIMV	
	- PC-PSV	
	- PC-MMV	
	– PC-APRV	
	Support of spontaneous breathing: – SPN-CPAP/PS	
	- SPN-CPAP/VS	
	- SPN-PPS	
	– SPN-CPAP	
Enhancements	 Apnea ventilation 	
	 Flow trigger 	
	– Sigh	12
	- Volume Ventilation Option (VG)	1-20
	 Automatic Tube Compensation[®] (AIC) 	1334
	- AutoRelease	
Special management	Leak Compensation	The Bak
Special maneuvers	- Suction maneuver	Medical
	 Medication pebulization 	Weuldar
Therapy types	– Invasive ventilation (Tube)	
	 Non-invasive ventilation (NIV) 	
	– O₂ Therapy	
Respiratory rate (RR)	0.5 to 150/min	
Inspiratory time (Ti)	0.1 to 3 s	
Maximum inspiratory time for flow cycled breaths (Timax)	Neonates 0.1 to 1.5 s	
	Pediatric patients 0.1 to 4 s	
Tidal volume (VT)	Neonates 2 to 100 mL	
	Pediatric patients 20 to 300 mL	



The Babylog® VN500 with Infinity® Medical Cockpit™ C500

Tidal volume for pressure support (VT)	Neonates 2 to 100 mL Redistric patients 20 to 300 ml
Activation of Annea Ventilation	0n Off
Tidal volume during Appea Ventilation (VTapp)	Neonates 2 to 100 ml
nda tolano danng i prod tolladon (traph)	Pediatric patients 20 to 300
Respiratory rate during Apnea Ventilation (RRapn)	2 to 150/min
Inspiratory pressure (Pinsp)	1 to 80 mbar (or hPa or cmH ₂ O)
Inspiratory pressure limit (Pmax)	2 to 100 mbar (or hPa or cmH ₂ O)
Positive end-expiratory pressure (PEEP)	0 to 35 mbar (or hPa or cmH ₂ O)
Rise time for pressure support (Slope)	Neonates 0 to 1.5 s
	Pediatric patients 0 to 2 s
O ₂ concentration FiO ₂	21 to 100 Vol%
Trigger sensitivity (Flow trigger)	0.2 to 5 L/min
Airway Pressure Release Ventilation	Inspiratory time Thigh 0.1 to 30 s
(PC-APRV)	Expiratory time Tlow 0.05 to 30 s
	Inspiratory pressure Phigh 1 to 80 mbar (or hPa or cmH ₂ O)
	Expiratory pressure Plow 0 to 35 mbar (or hPa or cmH_2O)
	Termination criterion (peak expiratory flow) 1 to 80 % PEF
Proportional Pressure Support	Flow Assist
(SPN-PPS)	- Neonates U to 300 mbar/L/s (or hPa/L/s or cmH ₂ U/L/s) Rediction satisfies to the 100 mbar/L/s (I_{1} / I_{2}
	- Pediatric patients 0 to 100 mbar/L/s (or hPa/L/s or cmH ₂ O/L/s)
	- Neonates 0 to 4 000 mbar/L (or bPa/L or cmH ₂ O/L) corresponds to compliance
	compensation: 1.000 to 0.3 mL/mbar (or mL/hPa or mL/cmH ₂ O)
	 Pediatric patients 0 to 1,000 mbar/L (or hPa/L or cmH₂O/L) corresponds to
	compliance compensation: 10,000 to 1 mL/mbar (or hPa/L or cmH ₂ O/L)
Automatic Tube Compensation	Inner diameter of the tube (Tube Ø)
(ATC)	 Endotracheal tube (ET)
	Pediatric patients 2 to 8 mm (0.08 to 0.31 in) Neonates 2 to 5 mm (0.08 to 0.2 in)
	- Tracheostomy tube (Trach.)
	Pediatric patients 2.5 to 8 mm (0.1 to 0.31 in)
	Activation of ATC during mandatory inspirations (Inspiratory compensation) on / off
	Activation of ATC during expiratory phases (Expiratory compensation) on / off
Leakage compensation	On / Off
	On: full compensation active
	Off: trigger compensation active
O ₂ Therapy	Continuous Flow (BTPS) 2 to 50 L/min
	O ₂ concentration FiO ₂ 21 to 100 Vol%
Maneuver settings	
Sigh pressure (ΔintPEEP)	0 to 20 mbar (or hPa or cmH₂O)
Time interval between sighs (Interval sigh):	20 s to 180 min
Number of cycles for a sigh (Cycles sigh):	1 to 20 exhalations
Medication nebulization	for 5,10,15,30 minutes
Average enrichment for suction maneuver	Factor for neonates 1 to 2
exygen enholment for subton maneuver	Factor for pediatric patients 1 to 2
Disconnection detection	automatic
Reconnection detection	automatic
Initial oxygen enrichment	max. 3 minutes
Active suction phase	max. 2 minutes
Final oxygen enrichment	max. 2 minutes

Displayed Measured values	
Airway pressure measurement	Positive end-expiratory pressure (PEEP)
	Peak inspiratory pressure (PIP)
	Mean airway pressure (Pmean)
	Minimum airway pressure (Pmin)
	Lower pressure level in APRV (Plow)
	End-inspiratory pressure for mandatory breaths (EIP)
	Upper pressure level in APRV (Phigh)
	Range -60 to 120 mbar (or hPa or cmH ₂ O)
Flow measurement (proximal)	Minute volume measurement
	Expiratory minute volume (MVe)
	Mandatary avniratory minute volume (MV)
	Spontaneous minute volume (MVspon)
	Minute volume (MV)
	Range 0 to 30 L/min BTPS
Tidal volume measurement	Tidal volume (VT)
	Inspiratory tidal volume of mandatory breaths (VTimand)
	Expiratory tidal volume of mandatory breaths (VTemand)
	Inspiratory tidal volume of spontaneous breaths (VTispon)
	Range 0 to 1,000 mL BTPS
Respiratory rate measurement	Respiratory rate (RR)
	Mandatory respiratory rate (RRmand)
	Spontaneous respiratory rate RRspon
	Range 0 to 300/min
O ₂ measurement (inspiratory side)	Inspiratory O_2 concentration (in dry air) (FiO ₂)
	Range 18 to 100 Vol%
CO ₂ measurement in mainstream	End-expiratory CO ₂ concentration (etCO ₂)
	Range 0 to 100 mmHg or 0 to 13.2 Vol% (at 1013 mbar (1013 cmH₂O)) or 0 to 13.3 kPa
Displayed calculated values	
Leakage minute volume (MVleak)	Range 0 to 30 L/min BTPS
Spontaneous portion of minute volume in percent % (Mvspon)	0 to 100 %
Besistance (B)	Range 0 to 1000 me/mbar (0 me/mba 0 me/ma 0 me/m $_{2}$ 0)
	Airway pressure Paw (t) -30 to 100 mbar (or bPa or cmH ₂ O) Flow (t) -40 to 40 L/min
Curve displays	Volume V (t) 2 to 300 mL
	CO ₂ (t) 0 to 100 mmHg or 0 to 13.2 Vol% (at 1013 mbar (1013 cmH ₂ O))
	or 0 to 13.3 kPa)
Alarms / Monitoring	
Expiratory minute volume (Mve)	High / Low
Airway pressure (Paw)	High / Low
Insp. O ₂ concentration (FiO ₂)	High / Low (automatic)
End-expiratory CO ₂ concentration (etCO ₂)	High / Low
Respiratory rate (RR)	High
Volume monitoring (VT)	Low (automatic)
Appea alarm time (Tapp)	5 to 60 seconds. Off
Disconnect alarm delay time (Tdisconnect)	0 to 60 seconds
Performance data	
Control principle	time-cycled, pressure-controlled, volume-constant
Inspiratory flow (BTPS)	max. 60 L/min
Base flow, neonates	6 L/min
Base flow, pediatric patients	3 L/min

Operating data	
Mains power supply	100 V to 240 V, 50/60 Hz
Current consumption	at 230 V max. 0.8 A Ventilation Unit with C500
	at 230 V max. 1.4 A with GS500
	at 230 V max. 0.8 A with PS500
	at 230 V max. 1.4 A with GS500 and PS500
	at 100 V max. 1.8 A Ventilation Unit with C500
	at 100 V max. 3.0 A with GS500
	at 100 V max. 1.8 A with PS500
	at 100 V max. 3.0 A with GS500 and PS500
Gas supply	
O ₂ pressure	2.7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi)
Air pressure	2.7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi)
Physical Specifications	
Dimensions (W x H x D)	
Babylog VN500 and Infinity® C500	420 mm × 685 mm × 410 mm (11.5 in × 12.6 in × 16.1 in)
Babylog VN500 and Infinity® C500 on trolley	577 mm × 1400 mm × 677 mm (22.7 in × 55.1 in × 26.7 in)
Weight	
Babylog VN500 and Infinity® C500	approx. 25 kg (55.1 lbs)
Babylog VN500 and Infinity® C500 on trolley	approx. 59 kg (130 lbs)
GS500	approx. 10.5 kg (23 lbs)
PS500	approx. 27 kg (59.5 lbs)
Mounting Adapter for 38 mm pole	approx. 2.35 kg (5.18 lbs)
Infinity [®] C500	
Diagonal screen size	17"
TFT color touch screen	
Input / Output ports	– RS232 (9-pin) connectors
	 USB ports for data collection
	 – 1 DVI for digital video output
	 – RJ 45 Ethernet connectors

Some functionalities are available as an option.

The information about this product is being provided for planning purposes. The product is pending 510 (k) review and is not commercially available in the U.S.

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