








TECHNOLOGYGuide

VENTILATORS




	BUNNELL INC	CARDINAL HEALTH	
Product name	Life Pulse high frequency ventilator	AVEA	
Patient range	Premature to small pediatric (350 g-25 kg)	Neonate, pediatric, adult	
Patient Setting		NICU, PICU, ICU	
Dimensions (HxLxW in inches)	14x19x14	59x22x22, including cart	
Weight (lbs)	48	115, including cart	
Warranty	1 year parts and labor, includes a loaner	2 years included standard. Optional service plans available.	
Battery backup at standard power	N/A	With standard included internal battery: 1 hour on compressed gas, 30 minutes on compressor; with optional external battery: 4 hours on compressed gas, 2 hours on compressor	
Available modes (in bold)	Volume ventilation, assist control	Volume ventilation, assist control	
	Volume ventilation, SIMV	Volume ventilation, SIMV	
	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV	
	Pressure ventilation, assist control	Pressure ventilation, assist control	
	Pressure ventilation SIMV	Pressure ventilation SIMV	
	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV	
	Pressure support ventilation	Pressure support ventilation	
	Noninvasive ventilation	Noninvasive ventilation	
	Spontaneous ventilation	Spontaneous ventilation	
	Apnea backup ventilation	Apnea backup ventilation	
	Airway pressure release ventilation	Airway pressure release ventilation	
	Adaptive support ventilation	Adaptive support ventilation	
	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantee (dual control)	
Breath types	High-frequency ventilation using a jet pulse mechanism	Mandatory, spontaneous, assisted	
Tidal volume/targeted tidal volume (mL)	N/A	2-300, neonate; 25-500, pediatric; 100-2500, adult	
Inspiratory time (seconds)	0.020-0.034	0.20-5.00, adult/pediatric; 0.15-3.00, neonate	
Peak inspiratory flow (LPM)	N/A	3-250, adult; 1-75, pediatric; 0.4-30.0, neonate	
Inspiratory pressure (cm H ₂ O)	8-50	0-90, adult/pediatric; 0-80, neonate	
PEEP/Intermittent PEEP (Cm H ₂ O)	N/A supplied by CV used in tandem	0-50	
Pressure Control (Cm H ₂ O)	N/A	0-90, adult/pediatric; 0-80, neonate	
Pressure Support (Cm H ₂ O)	N/A	0-90, adult/pediatric; 0-80, neonate	
O ₂ Concentration	0.21-1.0	21%-100%	
Display (in bold)	Wavelengths/loops	Wavelengths/loops	
	Trending	Trending	
	Event log	Event log	
URL	www.bunl.com	www.viasyshealthcare.com	

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	CARDINAL HEALTH	CARDINAL HEALTH/RESPIRATORY CARE	COVIDIEN
Product name	LTV 1150	LTV 1200	Puritan Bennett 540 Ventilator
			
Patient range	5 kg-adult	5 kg-adult	5 kg-adult
Patient setting	LTC, home care	Transport, hospital, LTC	Home care
Dimensions (HxLxW in inches)	3.25x13.5x10.5	3.25x13.5x10.5	6x12.4x9.25
Weight (lbs)	14.5	14.5	9.9
Warranty	1 year standard; 3 years on turbine	1 year standard; 3 years on turbine	1 year standard
Battery backup at standard power	1 hour	1 hour internal	Internal battery: 11 hours on a fully charged battery at a setting of PIP=10 cm H ₂ O, VT=200 mL, rate=20 bpm
Available modes (in bold)	Volume ventilation, assist control	Volume ventilation, assist control	Volume ventilation, assist control
	Volume ventilation, SIMV	Volume ventilation, SIMV	Volume ventilation, SIMV
	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV
	Pressure ventilation, assist control	Pressure ventilation, assist control	Pressure ventilation, assist control
	Pressure ventilation SIMV	Pressure ventilation SIMV	Pressure ventilation SIMV
	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV
	Pressure support ventilation	Pressure support ventilation	Pressure support ventilation
	Noninvasive ventilation	Noninvasive ventilation	Noninvasive ventilation
	Spontaneous ventilation	Spontaneous ventilation	Spontaneous ventilation
	Apnea backup ventilation	Apnea backup ventilation	Apnea backup ventilation
	Airway pressure release ventilation	Airway pressure release ventilation	Airway pressure release ventilation
	Adaptive support ventilation	Adaptive support ventilation	Adaptive support ventilation
	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantee (dual control)
Breath types	VC, PC, PS, and spontaneous	VC, PC, PS, and spontaneous	AC, SIMV, CPAP, PS
Tidal volume/targeted tidal volume (mL)	50-2,000	50-2,000	50-2000
Inspiratory time (seconds)	0.3-9.9	0.3-9.9	0.3-6.0
Peak inspiratory flow (LPM)	10-100	10-100	200
Inspiratory pressure (cm H ₂ O)	0-120	0-120	0-60
PEEP/intermittent PEEP (cm H ₂ O)	0-20	0-20	0-20
Pressure control (cm H ₂ O)	1-99	1-99	5-55
Pressure support (cm H ₂ O)	1-60	1-60	5-55
O ₂ concentration	21%	21%-100%	21%
Display (in bold)	Wavelengths/loops	Wavelengths/loops	Wavelengths/loops
	Trending	Trending	Trending
	Event log	Event log	Event log
URL	www.viasyshealthcare.com	www.viasyshealthcare.com	www.covidien.com

	COVIDIEN		DRÄGER		DRÄGER
Product name	Puritan Bennett 840 Ventilator		Babylog 8000+		Carina 
Patient range	Neonate to adult		Neonate		Pediatric-adult
Patient setting	LTAC, acute care		Perinatal		Subacute
Dimensions (HxLxW in inches)	BDU: 13x18x10; GUI: 1x15.5x6.7; cart: 30.3x22.9x23.7		10.8x13.4x3.1 (HxWxD)		10.83x15x6.89
Weight (lbs)	BDU: 40.1; GUI: 12.6; cart: 34.2		9.37		12.13
Warranty	1 year		1 year		1 year
Battery backup at standard power	1 hour standard		N/A		1 hour internal battery; 8 hours external battery
Available modes (in bold)	Volume ventilation, assist control		Volume ventilation, assist control		Volume ventilation, assist control
	Volume ventilation, SIMV		Volume ventilation, SIMV		Volume ventilation, SIMV
	Volume ventilation, SIMV+PSV		Volume ventilation, SIMV+PSV		Volume ventilation, SIMV+PSV
	Pressure ventilation, assist control		Pressure ventilation, assist control		Pressure ventilation, assist control
	Pressure ventilation SIMV		Pressure ventilation SIMV		Pressure ventilation SIMV
	Pressure ventilation, SIMV+PSV		Pressure ventilation, SIMV+PSV		Pressure ventilation, SIMV+PSV
	Pressure support ventilation		Pressure support ventilation		Pressure support ventilation
	Noninvasive ventilation		Noninvasive ventilation		Noninvasive ventilation
	Spontaneous ventilation		Spontaneous ventilation		Spontaneous ventilation
	Apnea backup ventilation		Apnea backup ventilation		Apnea backup ventilation
	Airway pressure release ventilation		Airway pressure release ventilation		Airway pressure release ventilation
	Adaptive support ventilation		Adaptive support ventilation		Adaptive support ventilation
	Pressure ventilation with volume guarantee (dual control)		Pressure ventilation with volume guarantee (dual control)		Pressure ventilation with volume guarantee (dual control)
Breath types	VC, PC, VC + spontaneous pressure support, volume support, proportional support, none or tube compensation		Time cycled/pressure limited-continuous flow		Pressure/volume guarantee
Tidal volume/targeted tidal volume (mL)	25-2,000		2 cc		100-2,000
Inspiratory time (seconds)	0.2-8.0		0.1-2.0		0.3-8.0
Peak inspiratory flow (LPM)	3.0-150 LPM for IBW > 24 kg; 3.0-60 LPM for IBW ≤ 24 kg; 1.0-30 LPM in NeoMode		1-30		Variable
Inspiratory pressure (cm H ₂ O)	5-90		10-20 mm Hg		5-50
PEEP/intermittent PEEP (cm H ₂ O)	0-45		0-25 mm Hg		3-20
Pressure control (cm H ₂ O)	0-90		10-80 mm Hg		5-50 mm Hg
Pressure support (cm H ₂ O)	0-70		N/A		2-50 mm Hg
O ₂ concentration	21%-100%		21%-100%		21%-100%
Display (in bold)	Wavelengths/loops		Wavelengths/loops		Wavelengths/loops
	Trending		Trending		Trending
	Event log		Event log		Event log
URL	www.covidien.com		www.draeger.com		www.draeger.com




Technology Guide Ventilators




	DRÄGER	EVENT MEDICAL		EVENT MEDICAL	
Product name	Evita XL	Inspiration LS		Inspiration Ventilator	
					
Patient range	Neonate-adult	Neonate-adult		Neonate-infant	
Patient setting	ICU/subacute	ICU, NICU, PICU, subacute		NICU, PICU, subacute	
Dimensions (HxLxW in inches)	20.9x12.4x17.7	21x16x16		21x16x16	
Weight (lbs)	64	54 vent; 66 w/cart; 45 w/deluxe cart (transport)		54 vent; 66 w/cart; 45 w/deluxe cart (transport)	
Warranty	1 year standard	US 5 years, Int'l 3 years		US 5 years, Int'l 3 years	
Battery backup at standard power	External battery 3 hours, internal/emergency battery 10 minutes	2+ hours		2+ hours	
Available modes (in bold)	Volume ventilation, assist control	Volume ventilation, assist control		Volume ventilation, assist control	
	Volume ventilation, SIMV	Volume ventilation, SIMV		Volume ventilation, SIMV	
	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV		Volume ventilation, SIMV+PSV	
	Pressure ventilation, assist control	Pressure ventilation, assist control		Pressure ventilation, assist control	
	Pressure ventilation SIMV	Pressure ventilation SIMV		Pressure ventilation SIMV	
	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV		Pressure ventilation, SIMV+PSV	
	Pressure support ventilation	Pressure support ventilation		Pressure support ventilation	
	Noninvasive ventilation	Noninvasive ventilation		Noninvasive ventilation	
	Spontaneous ventilation	Spontaneous ventilation		Spontaneous ventilation	
	Apnea backup ventilation	Apnea backup ventilation		Apnea backup ventilation	
	Airway pressure release ventilation	Airway pressure release ventilation		Airway pressure release ventilation	
	Adaptive support ventilation	Adaptive support ventilation		Adaptive support ventilation	
	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantee (dual control)		Pressure ventilation with volume guarantee (dual control)	
Breath types	Pressure/volume	VS, V-CMV, V-SIMV, P-CMV, P-SIMV, PS		VS, V-CMV, V-SIMV, P-CMV, P-SIMV, PS	
Tidal volume/targeted tidal volume (mL)	3-2,000	5-2,000		5-100	
Inspiratory time (seconds)	0.1-10.0	0.1-10		0.1-10	
Peak inspiratory flow (LPM)	6-120	Mandatory 1-120, spontaneous 1-180		Mandatory 1-60, spontaneous 1-60	
Inspiratory pressure (cm H ₂ O)	0-95	0-80		0-80	
PEEP/intermittent PEEP (cm H ₂ O)	0-50	0-50		0-50	
Pressure control (cm H ₂ O)	0-95	0-80		0-80	
Pressure support (cm H ₂ O)	0-95	0-80		0-80	
O ₂ concentration	21%-100%	21%-100%		21%-100%	
Display (in bold)	Wavelengths/loops	Wavelengths/loops		Wavelengths/loops	
	Trending	Trending		Trending	
	Event log	Event log		Event log	
URL	www.draeger.com	www.event.com		www.event.com	



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	HAMILTON MEDICAL		HAMILTON MEDICAL		HAMILTON MEDICAL	
Product name	Galileo Gold		Hamilton G5		Raphael XTC	
Patient range	Neonate-adult		Neonate-adult		Pediatric-adult	
Patient setting	Acute care/long-term care		Acute care/long-term care		Acute care/long-term care	
Dimensions (HxLxW in inches)	17.3x24.4x55.7		59x25x23.6		9.1x20x13.8	
Weight (lbs)	105		125.6 w/standard trolley; 92.6 w/shelf mount		37, 101 vent on trolley; 170 vent / compressor on trolley	
Warranty	12 months parts and labor, extended available		12 months parts and labor, extended available		12 months parts and labor; extended warranties optional	
Battery backup at standard power	1 hour with full battery charge		1 hour with internal battery; 1 hour per each optional hot-swappable extended battery		Typically 60 minutes	
Available modes (in bold)	Volume ventilation, assist control		Volume ventilation, assist control		Volume ventilation, assist control	
	Volume ventilation, SIMV		Volume ventilation, SIMV		Volume ventilation, SIMV	
	Volume ventilation, SIMV+PSV		Volume ventilation, SIMV+PSV		Volume ventilation, SIMV+PSV	
	Pressure ventilation, assist control		Pressure ventilation, assist control		Pressure ventilation, assist control	
	Pressure ventilation SIMV		Pressure ventilation SIMV		Pressure ventilation SIMV	
	Pressure ventilation, SIMV+PSV		Pressure ventilation, SIMV+PSV		Pressure ventilation, SIMV+PSV	
	Pressure support ventilation		Pressure support ventilation		Pressure support ventilation	
	Noninvasive ventilation		Noninvasive ventilation		Noninvasive ventilation	
	Spontaneous ventilation		Spontaneous ventilation		Spontaneous ventilation	
	Apnea backup ventilation		Apnea backup ventilation		Apnea backup ventilation	
	Airway pressure release ventilation		Airway pressure release ventilation		Airway pressure release ventilation	
	Adaptive support ventilation		Adaptive support ventilation		Adaptive support ventilation	
	Pressure ventilation with volume guarantee (dual control)		Pressure ventilation with volume guarantee (dual control)		Pressure ventilation with volume guarantee (dual control)	
Breath types	Pressure/volume targeted for both mandatory or assisted breath types. Optional control algorithm for adaptive support (closed loop mode)		Pressure/volume targeted for both mandatory or assisted breath types. Optional control algorithm for adaptive support (closed loop mode)		Pressure/volume targeted for both mandatory or assisted breath types. Optional control algorithm for adaptive support (closed loop mode)	
Tidal volume/targeted tidal volume (mL)	10-2,000		2-2,000		50-2,000	
Inspiratory time (seconds)	0.1-10.0		0.1-10 (10% to 80% of cycle time)		0.1-9.6	
Peak inspiratory flow (LPM)	1-180		6-120		0-120/180 max	
Inspiratory pressure (cm H ₂ O)	5-100		5-100		0-50	
PEEP/intermittent PEEP (cm H ₂ O)	0-50		0-50		0-35	
Pressure control (cm H ₂ O)	5-100 added to PEEP/CPAP		5-100 added to PEEP/CPAP		0-50	
Pressure support (cm H ₂ O)	0-100 added to PEEP/CPAP		0-100 added to PEEP/CPAP		0-50	
O ₂ concentration	21%-100%		21%-100%		21%-100%	
Display (in bold)	Wavelengths/loops		Wavelengths/loops		Wavelengths/loops	
	Trending		Trending		Trending	
	Event log		Event log		Event log	
URL	www.hamilton-medical.com		www.hamilton-medical.com		www.hamilton-medical.com	


Technology Guide Ventilators




	IMPACT INSTRUMENTATION INC	IMPACT INSTRUMENTATION INC	IMPACT INSTRUMENTATION INC
Product name	Uni-Vent Eagle Model 754	Uni-Vent Model 73X MCI	Uni-Vent Model 750
			
Patient range	Pediatric-adult	Pediatric-large adult	Pediatric-large adult
Patient setting	ER, transport, ICU	Prehospital, ER	ER, transport, ICU
Dimensions (HxLxW in inches)	11.5x8.87x4.5	8.87x11.5x4.5	11.5x9.25x4.87
Weight (lbs)	13, including internal battery pack; external charger/power supply, 3	13.2, including internal battery pack and xternal charger/rectified	10, including internal battery pack
Warranty	1 year limited	1 year limited	1 year limited
Battery backup at standard power	Yes	Yes	Yes
Available modes (in bold)	Volume ventilation, assist control	Volume ventilation, assist control	Volume ventilation, assist control
	Volume ventilation, SIMV	Volume ventilation, SIMV	Volume ventilation, SIMV
	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV
	Pressure ventilation, assist control	Pressure ventilation, assist control	Pressure ventilation, assist control
	Pressure ventilation SIMV	Pressure ventilation SIMV	Pressure ventilation SIMV
	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV
	Pressure support ventilation	Pressure support ventilation	Pressure support ventilation
	Noninvasive ventilation	Noninvasive ventilation	Noninvasive ventilation
	Spontaneous ventilation	Spontaneous ventilation	Spontaneous ventilation
	Apnea backup ventilation	Apnea backup ventilation	Apnea backup ventilation
	Airway pressure release ventilation	Airway pressure release ventilation	Airway pressure release ventilation
	Adaptive support ventilation	Adaptive support ventilation	Adaptive support ventilation
	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantee (dual control)
Breath types	AC, SIMV, CPAP	AC	AC, SIMV
Tidal volume/targeted tidal volume (mL)	300-1,000	300-1,000	0-3,000
Inspiratory time (seconds)	0.1-3.0	Variable, based on selected breath rate and tidal volume	0.1-3.0
Peak inspiratory flow (LPM)	60		0-100
Inspiratory pressure (cm H ₂ O)		15-80	15-100
PEEP/intermittent PEEP (cm H ₂ O)	0-20 internally generated		0-20 ventilator is PEEP compensated
Pressure control (cm H ₂ O)			
Pressure support (cm H ₂ O)	No		
O ₂ concentration	21%-100%	21%-100%	100%-requires external blender
Display (in bold)	Wavelengths/loops	Wavelengths/loops	Wavelengths/loops
	Trending	Trending	Trending
	Event log	Event log	Event log
URL	www.impactinstrumentation.com	www.impactinstrumentation.com	www.impactinstrumentation.com

	MAQUET INC		MAQUET INC		NEWPORT MEDICAL
Product name	Servo-i		Servo-s		Newport e360
					
Patient range	Neonate-adult		Pediatric-adult		Infant-adult
Patient setting	Various hospital settings, transport		Various hospital settings		Critical care, LTC
Dimensions (HxLxW in inches)	40.2x25.2x22		20.4x11.8x15.0		12.1x13.9x12.9
Weight (lbs)	44, 88 w/cart		39.7		38
Warranty	1 year		1 year		2 years
Battery backup at standard power	1 hour standard; optional hot-swappable battery packs available		1 hour standard; external 12v battery can be applied		60 minutes average when fully charged
Available modes (in bold)	Volume ventilation, assist control		Volume ventilation, assist control		Volume ventilation, assist control
	Volume ventilation, SIMV		Volume ventilation, SIMV		Volume ventilation, SIMV
	Volume ventilation, SIMV+PSV		Volume ventilation, SIMV+PSV		Volume ventilation, SIMV+PSV
	Pressure ventilation, assist control		Pressure ventilation, assist control		Pressure ventilation, assist control
	Pressure ventilation SIMV		Pressure ventilation SIMV		Pressure ventilation SIMV
	Pressure ventilation, SIMV+PSV		Pressure ventilation, SIMV+PSV		Pressure ventilation, SIMV+PSV
	Pressure support ventilation		Pressure support ventilation		Pressure support ventilation
	Noninvasive ventilation		Noninvasive ventilation		Noninvasive ventilation
	Spontaneous ventilation		Spontaneous ventilation		Spontaneous ventilation
	Apnea backup ventilation		Apnea backup ventilation		Apnea backup ventilation
	Airway pressure release ventilation		Airway pressure release ventilation		Airway pressure release ventilation
	Adaptive support ventilation		Adaptive support ventilation		Adaptive support ventilation
	Pressure ventilation with volume guarantee (dual control)		Pressure ventilation with volume guarantee (dual control)		Pressure ventilation with volume guarantee (dual control)
Breath types	Square and decelerating		Square and decelerating		Mandatory volume control, pressure control, volume target pressure control, biphasic pressure release, spontaneous, pressure support
Tidal volume/targeted tidal volume (mL)	2-4,000		100-4,000		Ped/infant 5-1,000; adult 100-3,000
Inspiratory time (seconds)	0.1-5.0		0.1-5.0		Ped/infant 0.1-3.0; adult 0.1-5.0
Peak inspiratory flow (LPM)	0-200		0-200		Ped/infant 1-100; adult 1-180
Inspiratory pressure (cm H ₂ O)	0-120		0-120		Max pressure 120; pressure limit for pressure control: ped/infant 0-17, adult 0-80. Pressure support: ped/infant 0-50, adult 0-60.
PEEP/intermittent PEEP (cm H ₂ O)	0-50		0-50		Ped/infant 0-30; adult 0-45
Pressure control (cm H ₂ O)	0-120		0-120		Pressure limit for pressure control: ped/infant 0-70; adult 0-80
Pressure support (cm H ₂ O)	0-120		0-120		Ped/infant 0-50; adult 0-60
O ₂ concentration	21%-100%		21%-100%		21%-100%
Display (in bold)	Wavelengths/loops		Wavelengths/loops		Wavelengths/loops
	Trending		Trending		Trending
	Event log		Event log		Event log
URL	www.maquetusa.com		www.maquetusa.com		www.newportnmi.com

	Philips	Philips	
Product name	BiPAP Vision	Esprit Critical Care	
			
Patient range	Adult >30 kgs	Neonate-adult	
Patient setting	Acute care (ER, ICU, CCU), subacute and wards	Acute care, LTACH, subacute	
Dimensions (HxLxW in inches)	10-5/8 x 16 x 14-3/8	17 x 15 x 25	
Weight (lbs)	34	66	
Warranty	1 year	2 years	
Battery backup at standard power	N/A	Yes	
Available modes (in bold)	Volume ventilation, assist control	Volume ventilation, assist control	
	Volume ventilation, SIMV	Volume ventilation, SIMV	
	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV	
	Pressure ventilation, assist control	Pressure ventilation, assist control	
	Pressure ventilation SIMV	Pressure ventilation SIMV	
	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV	
	Pressure support ventilation	Pressure support ventilation	
	Noninvasive ventilation	Noninvasive ventilation	
	Spontaneous ventilation	Spontaneous ventilation	
	Apnea backup ventilation	Apnea backup ventilation	
	Airway pressure release ventilation	Airway pressure release ventilation	
	Adaptive support ventilation	Adaptive support ventilation	
Breath types	Spontaneous, mandatory	Pressure, volume, NPPV	
Tidal volume/targeted tidal volume (mL)	N/A	50-2500	
Inspiratory time (seconds)	0.5-3.0	0.1-9.0	
Peak inspiratory flow (LPM)	Upon demand, up to 240	0-200	
Inspiratory pressure (cm H ₂ O)	4-40	5-100 cwp	
PEEP/intermittent PEEP (cm H ₂ O)	4-20	0-35	
Pressure control (cm H ₂ O)	N/A	5-100 cwp	
Pressure support (cm H ₂ O)	IPAP 4-40	0-100 cwp	
O ₂ concentration	21%-100%	21%-100%	
Display (in bold)	Wavelengths/loops	Wavelengths/loops	
	Trending	Trending	
	Event log	Event log	
URL	www.respironics.com	www.respironics.com	

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	PHILIPS RESPIRONICS	VORTAN MEDICAL TECHNOLOGY 1
Product name	BiPAP AVAPS	VAR-Plus
		
Patient range	Pediatric (7 yrs)/adults	10 kg+ (pediatric-adult)
Patient setting	Home care	Transport, ER/ICU, hyperbaric chamber, MRI/CT, backup for home/hospital/alternative care, disaster
Dimensions (HxLxW in inches)	9.57x63x4.4	9x4x3
Weight (lbs)	42	100 g
Warranty	2 years	1 year standard
Battery backup at standard power		N/A, pneumatically driven
Available modes (in bold)	Volume ventilation, assist control	Volume ventilation, assist control
	Volume ventilation, SIMV	Volume ventilation, SIMV
	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV
	Pressure ventilation, assist control	Pressure ventilation, assist control
	Pressure ventilation SIMV	Pressure ventilation SIMV
	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV
	Pressure support ventilation	Pressure support ventilation
	Noninvasive ventilation	Noninvasive ventilation
	Spontaneous ventilation	Spontaneous ventilation
	Apnea backup ventilation	Apnea backup ventilation
	Airway pressure release ventilation	Airway pressure release ventilation
	Adaptive support ventilation	Adaptive support ventilation
	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantee (dual control)
Breath types	Mandatory, spontaneous, assist, CPAP	Auto adjusting to lung capacity
Tidal volume/targeted tidal volume (mL)	200-1,600	Pressure controlled ventilation
Inspiratory time (seconds)	0.5-3.0	Set desired flow (Q), adjust PIP pressure dial to obtain desired inspiratory time
Peak inspiratory flow (LPM)	0-180	40 per ASTM guideline
Inspiratory pressure (cm H ₂ O)	IPAP 4-30	10 and 50
PEEP/intermittent PEEP (cm H ₂ O)	EPAP 4-25	PEEP is intrinsic to the device, which ranges from 2 to 9 cm and is directly proportional to the set PIP
Pressure control (cm H ₂ O)	PC mode - IPAP 4-30	N/A
Pressure support (cm H ₂ O)	IPAP 4-30	N/A
O ₂ concentration	Bleed-in low flow up to 15 LPM	50% or 85% when VAR is supplied with 100% O ₂ . If FiO ₂ is desired, use O ₂ blender at gas source
Display (in bold)	Wavelengths/loops	Wavelengths/loops
	Trending	Trending
	Event log	Event log
URL	www.resironics.com	www.vortan.com

	GE Healthcare	GE Healthcare	GE Healthcare
Product name	iVent 201	Breas Vivo®	Engström Carestation/Engström PRO
			
Patient range	Pediatric-adult	Adults >30 kg	Neonatal (USA only), pediatric, adult
Patient setting	Hospital, alternate care, transport, ER, home	Clinical, home	LTAC, stepdown, NICU, PICU, adult CC
Dimensions (HxLxW in inches)	13x10.3x9.5	7.5x9.4x8.8	17.7/ 26 (display up)x14x15
Weight (lbs)	17.6 (without battery)	8.8 (with humidifier)	66 kg/145 (with cart)
Warranty	1 year	24 months	1 year
Battery backup at standard power	2 hrs	3 hrs	2 hrs
Available modes (in bold)	Volume ventilation, assist control	Volume ventilation, assist control	Volume ventilation, assist control
	Volume ventilation, SIMV	Volume ventilation, SIMV	Volume ventilation SIMV
	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV	Volume ventilation, SIMV+PSV
	Pressure ventilation, assist control	Pressure ventilation, assist control	Pressure ventilation, assist control
	Pressure ventilation SIMV	Pressure ventilation SIMV	Pressure ventilation, SIMV
	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV	Pressure ventilation, SIMV+PSV
	Pressure support ventilation	Pressure support ventilation	Pressure support ventilation
	Noninvasive ventilation	Noninvasive ventilation	Noninvasive ventilation
	Spontaneous ventilation	Spontaneous ventilation	Spontaneous ventilation
	Apnea backup ventilation	Apnea backup ventilation	Apnea backup ventilation
	Airway pressure release ventilation	Airway pressure release ventilation	Airway pressure release ventilation
	Adaptive support ventilation	Adaptive support ventilation	Adaptive support ventilation
	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantee (dual control)	Pressure ventilation with volume guarantees (dual control)
Breath types	Volume control, pressure control, pressure support, and spontaneous	Pressure control and pressure support, both patient and machine triggered	VCV, PCV, PCV-VG, SIMV-VC, SIMV-PC, SIMV-PCVG BiLevel, CPAP, PSV, NIV, nCPAP, VGPS
Tidal volume/targeted tidal volume (mL)	50-2,000	Target volume clearance pending in US	2-2000
Inspiratory time (seconds)	Adaptive Time or to 3 sec 0.2	0.3-5	0.1-15
Peak inspiratory flow (LPM)	Adaptive Flow or 1-120, spontaneous up to 180	>200	2-160
Inspiratory pressure (cm H ₂ O)	5-80	4-40	1-98
PEEP/intermittent PEEP (cm H ₂ O)	0-40	2-20	1-50
Pressure control (cm H ₂ O)	5-80	4-40	1-98
Pressure support (cm H ₂ O)	0-60	4-40	0-60
O ₂ concentration	21%-100%	O ₂ can be blended into system; FiO ₂ varies	21%-100%
Display (in bold)	Wavelengths/loops	Waveforms/loops	Waveforms/loops
	Trending	Trending	Trending
	Event log	Event log	Event log
URL	www.gehealthcare.com/respiratorycare	www.gehealthcare.com/respiratorycare	www.gehealthcare.com/respiratorycare