

ReVel[®] ventilator specifications

Transport ventilation

Breath types	Volume control, pressure control, pressure regulated volume control (PRVC), pressure regulated volume support (PRVS), pressure support (PS), spontaneous
Breath modes	Assist control, synchronized intermittent mandatory ventilation (SIMV), continuous positive airway pressure (CPAP) plus PS, noninvasive positive pressure ventilation (NPPV), apnea backup

Physical dimensions

Size	11.3" (h) x 7.1" (w) x 3.3" (d) (28.7 cm x 18.0 cm x 8.4 cm)
Weight	9.5 lb (4.3 kg)

Maneuver

Maneuver	Function
Expiratory hold	0–6 sec
Inspiratory hold	0–6 sec

PTM patient and ventilator data

Waveform	PTM display only
Loop	PTM display only
Trending	24-hr trend of all patient monitors

Maneuver monitor

Monitor	Range
Auto positive end-expiratory pressure (PEEP)	0–99 cmH ₂ O
Delta pressure (dPaw)	1–99 cmH ₂ O
Expiratory pressure (Pexp)	0–100 cmH ₂ O
Plateau pressure (Pplat)	1–99 cmH ₂ O
Static lung compliance (Cstatic)	1–999 mL/cmH ₂ O

Certified Airworthiness Release (AWR) for compliance with military transport aircraft



LED display

Display type	12 5x7 dot matrix
Resolution	49 bicolor manometer
Viewable size	7 segment



Control setting		
Control	Range	
Bias flow	3–10 LPM	
Breath rate	1–80 BPM	
Breath type	Volume Control, Pressure Control, PRVC	
Flow termination	10–40% of peak flow	
High pressure alarm delay	0, 1, 2 breaths	
Inspiratory time	0.3–9.9 sec	
Leak comp	On, Off	
LPP alarm control	All Breaths, Control Only	
NPPV	On, Off	
O ₂ %	LPS, 21–100	
PEEP	0–20 cmH ₂ O	
Pressure control	1–99 cmH ₂ O	
PS	Off, 1–60 cmH ₂ O	
Pressure trigger	1–20 below PEEP	
Pressure control flow termination	On, Off	
Rise time	Rise time setting	Commanded rise time (sec)
	1	0.100
	2	0.133
	3	0.178
	4	0.237
	5	0.316
	6	0.422
	7	0.562
	8	0.750
	9	1.000
Safety valve delta pressure	5–30 cmH ₂ O	
Flow sensitivity	P, 1–9 LPM	
Tidal volume	50–2,000 mL	
Time termination	0.3–3 sec	
Ventilation mode	Assist/Control (A/C), SIMV, CPAP plus PS	
SBT O ₂ %	LPS, 21–100	
SBT PEEP	0–20 cmH ₂ O	

Control setting (continued)	
Control	Range
SBT PS	"- -" (off), 1–30 cmH ₂ O
SBT time	15–120 min
SBT f/Vt display	"On," "Off"

Roll stand	
Physical dimension	
Height	40.9" (103.9 cm)
Weight	52 lb (23.6 kg)
Wheels	5 casters (2 lockable)
Ground clearance	2.75" (7 cm)

Adjustable alarm	
Alarm	Range
Apnea (interval)	10–60 sec
High pres	5–100 cmH ₂ O
High f	1–120 BPM, or "- -" (off)
High PEEP	3–40 cmH ₂ O, or "- -" (off)
High pulse	18–299 BPM, or "- -" (off)
High SpO ₂	80–99%, or "- -" (off)
Low FiO ₂	"- -" (off), or 18–95%
Low min vol	"- -" (off), or 0.1–99 L
Low pk pres	"- -" (off), or 1–60 cmH ₂ O
Low PEEP	"- -" (off), or 1–20 cmH ₂ O
Low pulse	"- -" (off), or 19–300 BPM
Low SpO ₂	"- -" (off), or 60–99%
SBT > f	15–80 BPM, or SBT Hi f off
SBT > f/Vt	70–900 BPM/L, or Hi f/Vt off
SBT < f	SBT Lo f off, or 1–40 BPM
SBT < f/Vt	Lo f/Vt off, or 5–90 BPM/L
SBT Hi PEEP	3–40 cmH ₂ O, or "- -" (off)
SBT Lo PEEP	"- -" (off), or 1–20 cmH ₂ O

Alarm system	
Audible volume	45–85 dBA

Procedure	
Procedure	Function
O ₂ flush	Delivers a pre-selected increase in O ₂ percentage for a pre-selected duration
Nebulization	Provides a flow of 6 LPM ± 10% O ₂ to drive a nebulizer (<i>optional</i>); configurable as continuous or inspiration only
Spontaneous breathing trial (SBT)	During the SBT procedure, delivers ventilation in CPAP +PS mode with the selected SBT control settings in Extended Features; calculates f/Vt

Power		
Input voltage		
11–16 VDC		
Removable battery pack		
Type	Lithium-ion	
Duration	4-hr internal battery (<i>hot swappable</i>)	
Feature/spec.	Detail	
Electrical	Nominal voltage output	10.8 VDC
	Nominal capacity	5,800 mAh (<i>at 1C rate</i>), min
	Charge rating	12.3 VDC, 2.0 A max
Charge time	Transition battery is fully recharged within 5 hr	
	Removable battery pack can be recharged within 8 hr	

Environmental	
Storage	
Temperature	-4 to 140 °F (-20–60 °C)
Humidity	5 to 95% relative, non-condensing
Operating	
Temperature	32–104 °F (0–40 °C)
Humidity	5–95% relative, non-condensing
Altitude	
Storage	50,000' max (11.6 kPa)
Operating	-2,300 to 10,600' (68–110 kPa)

Device monitor	
Monitor	Range
Measured Leak	0–30 LPM
O ₂ Source Pressure	2–99.9 psi
Peak Expiratory Flow	0–190 LPM
Removable Battery Capacity Remaining	0–120%
Vent Usage Meter, non resettable	0–500,000 hr
Vent Usage Meter, resettable	0–500,000 hr

Patient monitor	
Monitor	Range
Airway Pressure (Paw)	-6 to +90 cmH ₂ O measured at the patient wye
Exhaled Minute Volume (VE)	0–99.9 L
Exhaled Tidal Volume (Vte)	0–4,000 mL
Fraction of Inspired Oxygen (FiO ₂)	12–103% O ₂
I:E Ratio, Calculated (IEcalc)	1:99–4.0:1
I:E Ratio, Measured	1:99–45:1
Mean Airway Pressure (MAP)	0–99 cmH ₂ O
Peak Inspiratory Flow	3–190 LPM measured at the patient wye
Peak Inspiratory Flow, Calculated	10–120 LPM
Peak Inspiratory Pressure (PIP)	0–120 cmH ₂ O, or hPa
PEEP	0–99 cmH ₂ O, or hPa
Pulse Oximetry signal strength	Green/Amber/Red
Pulse Rate	18–300 BPM
SBT f/Vt	0–999 BPM/L
SBT time remaining	00:00 (<i>mm:ss</i>)–01:59:59 (<i>hh:mm:ss</i>)
SpO ₂	0–100%
Spontaneous Breath Rate (Sp f)	0–120 BPM
Spontaneous Tidal Volume (SpVte)	0–4,000 mL
Total Breath Rate (f)	0–120 BPM

 **WARNING**—U.S. Federal Law restricts this device—sale by or on the order of a physician.

CareFusion
22745 Savi Ranch Parkway
Yorba Linda, CA 92887

800.754.1914 toll-free
763.398.8500 tel
763.398.8403 fax

carefusion.com



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