

ReVel™ ventilator specifications

Transport ventilation

Breath types	Volume Control, Pressure Control, PRVC (Pressure Regulated Volume Control), PRVS (Pressure Regulated Volume Support), Pressure Support, Spontaneous
Breath modes	Assist Control, Synchronized Intermittent Mandatory Ventilation (SIMV), Continuous Positive Airway Pressure (CPAP) plus Pressure Support, Non-Invasive Positive Pressure Ventilation (NPPV), Apnea Backup

Physical dimensions (height x width x depth)	
Size	11.3" h x 7.1" w x 3.3" d (28.7 cm x 18.0 cm x 8.4 cm)
Weight	9.9 lbs (4.5 kg)

Maneuvers	
Maneuver	Function
Expiratory-hold	0 to 6 seconds
Inspiratory-hold	0 to 6 seconds

PTM patient and ventilator data	
Waveforms	PTM display only
Loops	PTM display only
Trending	24-hour trend of all patient monitors

Maneuver monitors	
Monitor	Range
Auto PEEP	0 to 99 cmH ₂ O
Delta pressure (dPaw)	1 to 99 cmH ₂ O
Expiratory pressure (Pexp)	0 to 100 cmH ₂ O
Plateau pressure (Pplat)	1 to 99 cmH ₂ O
Static lung compliance (Cstatic)	1 to 999 mL/cmH ₂ O



LED display	
Display	
Display type	12 5x7 dot matrix LEDs
Resolution	49 bi-color nanometer LEDs
Viewable size	7 segment LEDs

Control settings		
Control	Range	
Bias flow	3 to 10 lpm	
Breath rate	1 to 80 bpm	
Breath type	Volume Control, Pressure Control, Pressure Regulated Volume Control (PRVC)	
Flow termination	10% to 40% of peak flow	
High pressure alarm delay	0, 1, 2 breaths	
Inspiratory time	0.3 to 9.9 seconds	
Leak comp	On, Off	
LPP alarm control	All Breaths, Control Only	
NPPV	On, Off	
O ₂ %	LPS, 21% to 100%	
PEEP	0 to 20 cmH ₂ O	
Pressure control	1 to 99 cmH ₂ O	
Pressure support	Off, 1 to 60 cmH ₂ O	
Pressure trigger	1 to 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 to 30 cmH ₂ O	
Flow sensitivity	P, 1 to 9 lpm	
Tidal volume	50 to 2,000 mL	
Time termination	0.3 to 3.0 seconds	
Ventilation mode	Assist/Control (A/C), Synchronized Intermittent Mandatory Ventilation (SIMV), Continuous Positive Airway Pressure (CPAP) plus Pressure Support (PS).	
SBT O ₂	LPS, 21% to 100%	
SBT PEEP	0 to 20 cmH ₂ O	

Control settings (continued)	
Controls	Range
SBT pressure support	"—" (off), 1 to 30 cmH ₂ O
SBT time	15 min to 120 min
SBT f/Vt display	"On", "Off"

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

Adjustable alarms	
Alarm	Range
Apnea (interval)	10 to 60 seconds
High Pres	5 to 100 cmH ₂ O
High f	1 to 120 bpm, or "- -" (off)
High PEEP	3 to 40 cmH ₂ O, or "- -" (off)
High pulse	18 to 299, bpm or "- -" (off)
High SpO ₂	80% to 99%, or "--" (off)
Low FIO ₂	"- -" (off), or 18% to 95%
Low Min Vol	"- -" (off), or 0.1 to 99 liters
Low Pk Pres	"- -" (off), or 1 to 60 cmH ₂ O
Low PEEP	"- -" (off), or 1 to 20 cmH ₂ O
Low pulse	"- -"(off), or 19 to 300 bpm
Low SpO ₂	"- -"(off), or 60% to 99%
SBT > f	15 to 80 bpm, or SBT Hi f off
SBT > f/Vt	70 to 900 bpm/L, or Hi f/Vt off
SBT < f	SBT Lo f off, or 1 to 40 bpm
SBT < f/Vt	Lo f/Vt Off, or 5 to 90 bpm/L
SBT Hi PEEP	3 to 40 cmH ₂ O, or "- -" (off)
SBT Lo PEEP	"- -" (off), or 1 to 20 cmH ₂ O

Alarm system	
Audible volume	45 to 85 dBA

Procedures	
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 L/min +/- 10% O ₂ to drive a nebulizer (optional) Configurable as continuous or inspiration only
Spontaneous breathing trial (SBT)	During the SBT procedure, ventilation is delivered in CPAP +PS mode with the selected SBT control settings in Extended Features; calculates f/Vt

Power specifications		
Input voltage		
11 to 16 VDC		
Removable battery pack		
Type	Lithium ion	
Duration	4 hour internal battery (hot swappable)	
Feature/spec	Details	
Electrical	Nominal voltage output	10.8 VDC
	Nominal capacity	5,800 mA _H (at 1C rate), minimum
	Charge rating	12.3 VDC, 2.0 A maximum
Charge time	Transition battery is fully recharged within 5 hours	
	Removable battery pack can be recharged within 8 hours	

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


Device monitors	
Monitor	Range
Measured leak	0.0 to 30.0 lpm
O ₂ source pressure	2.0 to 99.9 PSI
Peak expiratory flow	0 to 190 lpm
Removable battery capacity remaining	0% to 120%
Vent usage meter, non re-settable	0.0 to 500000.0 hours
Vent usage meter, re-settable	0.0 to 500000.0 hours

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

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

 CareFusion
22745 Savi Ranch Parkway
Yorba Linda, CA 92887

800.231.2466 toll-free
714.283.2228 tel
714.283.8493 fax

 CareFusion Germany 234 GmbH

Leibnizstrasse 7
97204 Hoechberg
Germany

+49 931 4972-0 tel
+49 931 4972-423 fax

CareFusion
Yorba Linda, CA

carefusion.com

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