

## Exceptional design and intuitive functionality

The Prima SP3 features a touchscreen ventilator, autoclavable absorber and accurate Penlon vaporizers

- » Advanced, easy-to-use features for maximum patient safety
- » Fully-loaded specifications as standard
- » Three vaporizer station as standard
- » Six ventilation modes
  1. Spontaneous
  2. Volume
  3. Pressure
  4. Pressure Support
  5. SIMV
  6. SMMV
- » Large color touchscreen
- » Low cost of ownership—only two preventive maintenance service visits per year
- » Flexible and sophisticated for all your anesthesia needs



### Integrated design and superior build quality

- High levels of workstation integration
- Modular construction
- GCX™ mounting rails for superior mounting solutions
- Dual oxygen, nitrous oxide and air flowmeters
- Two oxygen, one nitrous oxide and one air yoke
- Open architecture for monitors and accessories
- Many monitoring shelf configurations available
- Three station Selectatec® back bar
- Flowmeter and work surface lighting
- Four electrical outlets
- Oxygen auxiliary flowmeter

### Balanced ultra low-flow anesthesia and a proven mechanical anti-hypoxic device

- Specifically designed for low flow
- 50–75 ml/min minimum oxygen flow
- 27–33% minimum Oxygen/Nitrous Oxide flow

#### AV-S Multi-Mode Ventilator

- Easy-to-use and designed for all patient profiles
- Volume, PCV, PSV, SIMV and SMMV modes

#### A200SP Absorber

- Advanced system integration, easy to use and high performance
- Provides seamless ventilation mode switching

#### Sigma Delta Vaporizer

- Delivers accurate concentrations

#### Sigma Alpha Vaporizer

- Suprane® (Desflurane) delivery solution

### Technical Specifications

#### Prima SP3 Anesthesia System

##### Physical

Size (H x W x D)	54" x 28.4" x 31.5" (1370 x 720 x 800 mm)
Weight	165.4 lb (75 kg)
Top Shelf	28.4" x 18.9" (720 x 480 mm)
Work Surface	25.6" x 11.8" (650 x 300 mm)
Drawers (up to three)	7.5" x 20.5" x 15.4" (190 x 520 x 390 mm)

##### Features

Number of Vaporizers	3
Gases	Oxygen, Nitrous Oxide, Air
Cylinder Yokes	Four
Oxygen Fail Safe	Yes
Anti-Hypoxic Device	Mechanical, 27 to 33%
Standards	All relevant

#### AV-S Multi-Mode Ventilator

##### Physical

Size, Control Unit Only (H x W x D)	7.3" x 11.4" x 11.8" (185 x 290 x 300 mm)
Size with Adult Bellows (H x W x D)	15.2" x 11.4" x 11.8" (385 x 290 x 300 mm)
Weight (Control Unit)	16.8 lb (7.6 kg)
Weight (w/Adult Bellows)	19.8 lb (9.0 kg)
Screen (TFT)	8.4 inches (210 mm)
Bellows (Latex-Free)	20 to 1600 ml
Bellows (pediatric option)	20 to 350 ml
Power	90 to 264 VAC, 47 to 63 Hz
Drive Gas	Oxygen or Air

##### Functions

Tidal Volume (Vt)	20 to 1600 ml
Rate (BPM)	4 to 100 bpm
Sigh Mode	Tidal Volume (Vt) x 1.5, every 50 breaths
I:E Ratio	1:0.3 to 1:8
Pressure Limit	10 to 80 cmH <sub>2</sub> O
Fresh Gas Compensation	Automatic Tidal Volume Adjustment
Ventilation Modes	Off, Standby, Volume, Pressure Controlled, Spontaneous, SIMV, SMMV, PSV (for use in anesthesia procedures only)
Pressure Control	10 to 70 cmH <sub>2</sub> O
Spontaneous Mode	Active Volume and Pressure Alarms, Patient Support Function—Automatic switch to Volume Cycle Mode if apnea alarm is triggered
Electronic PEEP	4 to 30 cmH <sub>2</sub> O
Oxygen Monitor	Fuel Cell type

#### SIMV, SMMV, PSV

Trigger	0.2 to 0.4 L/min
Trigger Window	60% of Expiratory Time
Tidal Volume	As Volume Mode
Minute Volume	As Volume Mode
Inspiratory Time	0.5 to 5 secs
Support Pressure	3 to 20 cmH <sub>2</sub> O (PEEP referenced)

#### Alarms—Automatic

Alarm Mute	30 seconds
Low Drive Gas Pressure	Less than 235 kPa (34 psi)
High Cont. Airway Press	Above 30 cmH <sub>2</sub> O at start of cycle
Low Pressure	4 to 14 cmH <sub>2</sub> O (PEEP referenced)
Low Tidal Volume	50% of Volume set (spirometry)
Incorrect Rate or Ratio, Mains Failure	30 minutes battery backup
Low Battery	5 minutes use
Vent Inop	Internal or Battery Failure

#### AV-S Multi-Mode Ventilator continued

##### Alarms—optional, user set

Tidal Volume—Minimum	0 to 1600 ml
Tidal Volume—Maximum	20 to 1600 ml
Minute Volume—Minimum	0 to 10 L
Minute Volume—Maximum	0 to 30 L
Apnea	Adjustable Reset Pressure (PEEP Ref) 3 to 35 cmH <sub>2</sub> O
Low and High O <sub>2</sub> Concentration	18% to 105%
High Airway Pressure	10 to 80 cmH <sub>2</sub> O adjustable

##### Default Settings

	Adult	Pediatric
Volume, Tidal Volume (Vt):	600 ml	150 ml
Volume, Rate (BPM):	10	15
Volume, I:E Ratio:	1:2	1:2
Volume, Pmax:	38 cmH <sub>2</sub> O	38 cmH <sub>2</sub> O

Pressure, Tidal Volume (Vt):	600 ml	150 ml
Pressure, Rate (BPM):	10	15
Pressure, I:E Ratio:	1:2	1:2
Pressure, P-Target:	10 cmH <sub>2</sub> O	10 cmH <sub>2</sub> O

SIMV, Tidal Volume (Vt):	600 ml	200 ml
SIMV, Rate (BPM):	6	10
SIMV, Inspiratory Time:	2 sec	1 sec
SIMV, Trigger:	0.4 L/min	0.4 L/min

SMMV, Minute Volume (Vt):	3.6 L	2 L
SMMV, Rate (BPM):	6	10
SMMV, Inspiratory Time:	2 sec	1 sec
SMMV, Trigger:	0.4 L/min	0.4 L/min

PSV, Support Pressure:	10 cmH <sub>2</sub> O	10 cmH <sub>2</sub> O
PSV, Inspiratory Time:	2 sec	1 sec

#### A200SP Absorber

##### Physical

Size (H x W x D)	16.6" x 9.0" x 16.9" (420 x 230 x 430 mm)
Weight (empty)	33 lb (15 kg)
Absorbent Capacity	2.9 lb (1.3 kg)

#### Sigma Delta and Alpha Vaporizer

##### Physical

	Sigma Delta	Sigma Alpha
Weight:	Approx. 5 kg	Approx. 6 kg
Capacity:	Volume at MAX mark: 250 ml nominal Volume at MIN mark: 35 ± 10 ml	330 ml working volume 70 ml refill indicator

Note: After draining, approximately 60 ± 10 ml of liquid is retained by the wick

Operating Flow Range:	0.2 to 15 liters / min	0.5 to 10 liters / min
Operating Temperature Range:	15 to 35°C (58 to 95°F)	18 to 30°C (64 to 86°F)

##### Size (H x W x D)

Cagemount Dimensions	8.6" x 5.2" x 6.2" (219 x 133 x 158 mm)
Selectatec® Compatible w/	
Interlock Dimensions	9.5" x 4.7" x 7.5" (242 x 120 x 190 mm)
Dräger Plug-In® Compatible Dim.	9.5" x 3.9" x 7.5" (242 x 100 x 190 mm)