

DRE Integra AV-S

The easy-to-use, advanced anesthesia system

- High levels of workstation integration
- Modular construction
- Open architecture for monitors and accessories
- Up to four gases
- Lockable drawer
- Large work space
- Two or three station Selectatec backbar
- Low cost of ownership

Safe Ultra Low Flow

- Specifically designed for low flow
- 50-75 ml/min minimum oxygen flow
- 27-33% minimum Oxygen / Nitrous Oxide
- Mechanical Anti-Hypoxic Device

Optional Features

- Dual oxygen, nitrous oxide and air flowmeters
- Additional monitor shelf
- Flowmeter and work surface lighting
- Electrical outlets
- Oxygen auxiliary flowmete



Advanced. Flexible. Easy-to-use technology.

The DRE Integra AV-S presents all of the most advanced features of a modern low-flow anesthesia machine: contemporary ergonomic design, a mechanical anti-hypoxic device, and air/N₂O interlock. But what differentiates the AV-S from its contemporaries is its open architecture — this progressive design element allows for maximum workstation integration with the unit's standard AVS ventilator and A200SP absorber.

The AV-S ventilator is equipped with volume, PCV, PSV, SIMV and SMMV modes; comprehensive printer/data outputs; integrated oxygen monitor and spirometry; electronic PEEP and a 30-minute battery backup. The modular interconnectivity of the unit has been constructed to utilize the synergy of combining a superior machine with a sophisticated ventilator and an integrated absorber. Beyond capability and economy, the most appealing facet of the new DRE Integra AV-S may be its exceptional ease of use.

The DRE Integra AV-S has large, back-lit flowmeters for its twin oxygen, single nitrous oxide and single air yokes. It also has a large color Touchscreen with an easy to access Com-wheel. And the ventilator's selectable dual waveform display offers a clear, precise depiction of Pressure vs. Time, Volume vs. Time and Pressure vs. Volume (for ventilation analysis).



AV-S Ventilator

The intuitive user interface and comprehensive support modes provide optimum therapy for all patient profiles.

- Combines sophistication and ease of use
- Color Touchscreen and Com-wheel control
- Volume and pressure ventilation, plus three spontaneous support modes: PSV, SIMV and SMMV
- High quality, multi-option product with flexible specification
- Single/dual waveform display
- · Built-in oxygen, volume and pressure monitoring
- Electronic PEEP
- Fresh gas flow compensation



A200SP Absorber

Provides advanced system integration and high performance.

- Absorber/ventilator interface provides seamless ventilation mode switching
- Excellent ergonomics with multi-position mounting and adjustable breathing bag arm
- Optional heated circuit
- Protected, integrated spiormetry sensors
- Quick-release canister allows you to change the absorbent while ventilating your patient
- Built-in oxygen monitor sensors
- Autoclavable (excluding covers, manometer and oxygen sensor)

Equipment for the way you operate

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Sigma Delta Vaporizer

The award winning Sigma Delta has evolved from a distinguished line of vaporizers of the highest quality and reliability into the world market leader.

- Selectatec[®], Drager Plug-in[®], North American Drager, Cagemount
- Superb performance, particularly at low flows
- Halothane, Enflurane, Isoflurane, Sevoflurane
- Keyed Filler, Quik Fil® or Pour Fil
- Low body weight



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Advanced Anesthesia System

Equipment for the way you operate

Technical Specifications

Integra AV-S

Physical

• Size (H x W x D)	54 x 26 x 26 in / 137 x 66 x 66 cm
•Top Shelf	24 x 16 in / 61 x 40 cm
	24 x 14.5 in / 61 x 37 cm
Drawers	
Power required VAC	
Auxiliary Electric Outlets	(4)13 Amp

Features

Max Vaporizers	
• Gases	Oxygen, Nitrous Oxide, Air
Cylinder Yokes	4
Oxygen Fail Safe	Yes
Anti-Hypoxic Device	Mechanical, 27 to 33%
Integrated A200SP Absorber	Yes
Integrated AV-S Ventilator	Yes
Standards	All relevant to markets, including ASTM & CE

A200SP Absorber Physical

Flysical	
• Size (H x W x D)	16.5 x 9 x 16.9 in / 42 x 23 x 43 cm
• Weight	15 kg
Absorbent Capacity	1.3 kg

AV-S Ventilator

Physical	
Size (H x W x D, control unit)	7.3.x 11.4 x 11.8 in
	18.5 x 29 x 30 cm
w/ adult bellows (H x W x D)	7.3.x 11.4 x 11.8 in
	38.5 x 29 x 30 cm
Screen	
Weight (control unit only)	7.6 kg
Weight (with adult bellows)	9.0 kg
Bellows (latex-free)	20 to 1600 ml, 20 to 350 ml (pediatric option)
Power	90 to 264 VAC, 47 to 63 Hz
Drive Gas	Oxygen or air

Functional

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Tidal Volume (Vt)	
Rate (BPM)	4 to 100 bpm
I:E Ratio	1:0:3 to 1:8
Pressure Limit	
Fresh Gas Compensation	Automatic tidal
	volume adjustment
Ventilation Modes	Off, standby, volume, pressure controlled,
	spontaneous, SIMV, SMMV, PSV
	(for use in anesthesia procedures only)
Sigh Function (volume mode)	Tidal volume (Vt) x 1.5 is delivered once,
	twice, three or four times every 50 breaths
	(frequency is user selectable)
Pressure Control	10 to 50 cmH ₂ 0
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 ₂ 0
Oxygen Monitor	

SIMV, SMMV, PSV

Trigger	0.7 to 4 L/min (PEEP referenced)
Trigger Window	60% of Expiratory Time
Tidal Volume (Vt)	
Minute Volume (Vm)	As Volume Mode
Inspiratory Time (Ti)	0.5 to 5 Seconds
Support Pressure	3 to 20 CmH ₂ 0 (PEEP Referenced)

Alarms – Automatic

Alarm Mute	30 seconds
Low Drive Gas Pressure	Less than 235 kPa (34 psi)
High Continuous Airway Pressure	Above 30 cmH ₂ 0 at
	start of cycle
Low Pressure	4 to 14 cmH,0 PEEP reference
Low Tidal Volume	50% of volume set (spirometry)
Incorrect rate or ratio	
Mains Failure	30 minutes battery backup
Low Battery	5 minutes use
Vent Loop	
• Apnea	Flow referenced

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
Low and High O ₂ Concentration	18% to 105%
High Airway Pressure	10 to 80 cmH ₂ 0 adjustable

Default Settings

Dendant Dettinigs		
<u>Volume</u>	<u>Adult</u>	<u>Pediatric</u>
 Tidal Volume (Vt) 	600 ml	150 ml
 Rate (BPM) 	10	15
 I:E Ratio 	1:2	1:2
• Pmax	38 cmH ₂ 0	38 cmH ₂ 0
	2	2
Pressure	<u>Adult</u>	Pediatric
 Tidal Volume (Vt) 	600 ml	150 ml
• Rate (BPM)	10	15
 I:E Ratio 	1:2	1:2
 P-Target 	10 cmH ₂ 0	10 cmH ₂ 0
5	2	2
<u>SIMV</u>	<u>Adult</u>	<u>Pediatric</u>
 Tidal Wave (Vt) 	600 ml	200 ml
• Rate (BPM)	6	10
 Inspiratory Time 	2 Seconds	1 Second
• Trigger	-1 cmH_0	-1 cmH_0
	2	2
SMMV	Adult	Pediatric
 Tidal Wave (Vt) 	3.6 L	2 L
• Rate (BPM)	6	10
 Inspiratory Time 	2 Seconds	1 Second
• Trigger	-1 cmH ₂ 0	-1 cmH_0
55-	2	2
PSV	Adult	Pediatric
Support Pressure	10 cmH ₂ 0	10 cmH ₂ 0
 Inspiratory Time 	2 Seconds	1 seconds

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