



Item Description:  
**Anesthesia Machine**

Equipment Number:  
**10-134**

Potential Manufacturer  
-----  
GE  
-----  
Draeger  
-----

Model Number  
-----  
Aisys, S/5 Avance  
-----  
Perseus A500  
-----

**Further Description:**

- A machine that's used during surgical operations for patient ventilation, respiratory monitoring, and vital signs monitor



**Specifications:**

**Dimensions and weight:**

S/5:W x D x H:720 x 730 x 1350 mm  
Weight: 125kg

Aisys:W x D x H:740 x 890 x 1510 mm  
Weight: 168 kg

**Electrical Requirements:**

120 V AC, 60 Hz, 12 A

**Data Requirements:**

2 Data ports

**Plumbing Requirements:**

Connection connections: O2, N2O, Medical Air , Suction, Scavenging system

**Design and Installation Notes:**

- Adequate clearance consideration is required for extending the arm monitor to the side.
- UPS power is required

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.

# Aisys Carestation

## A Digital Advantage Solution

### Exceptional Design

- Flexible and integrated, with advanced design, ventilation, vital signs monitoring and Advanced Breathing System (ABS™)
- Proprietary INview™ Patient Displays so that you can position the patient and ventilation data and controls where you need them
- Can be integrated with your hospital information system
- Fully upgradeable to add new technologies as your needs change

### Proven Clinical Excellence

#### Advanced ventilation for a broad range of patient types

- Volume Control, Pressure Control, PSVPro® (Pressure Support with Apnea backup), Synchronized Intermittent Mandatory Ventilation (SIMV) – Volume and Pressure, electronic PEEP, PCV-VG Pressure Controlled Volume Guarantee
- Tidal volume compensation to the wye piece

#### Vital signs monitoring with our exclusive technology

- Patient Spirometry™ measures airway pressures, flow, volumes, compliance and airway resistance, breath by breath at the patient's airway
- Machine spirometer measures airway pressures, flow volumes and loops via inspiratory flow sensors
- Entropy® aids you in monitoring the state of the brain
- Neuromuscular Transmission (NMT) provides a continuous, quantitative measurement of patient's responses to nerve stimulation and regional block

### Advanced Breathing System (ABS™)

- Fewer connections may help reduce the risk of misconnects and leaks, enhancing patient safety
- Low circuit volume contributes to a fast response well suited for low flow cases - 2.7 L in vent mode, 1.2L in manual mode
- Rising, microprocessor-controlled bellows provides immediate visual feedback about the patient's ventilatory status



## Physical Specifications

### Dimensions

Height:	133.9 cm/52.7 in
Height (with horizontal arm):	150.2 cm/59.2 in
Width:	73.45 cm/28.92 in
Depth:	88.40 cm/34.80 in
Weight:	Approximately 168 kg/370 lb

### Top shelf

Weight limit:	46 kg/100 lb
Width:	55.01 cm/21.66 in
Depth:	51.6 cm/20.31 in

### Top shelf (optional)

Weight limit:	23 kg/50 lb
Width:	54.8 cm/21.57 in
Depth:	44.45 cm/17.50 in

### Work surface

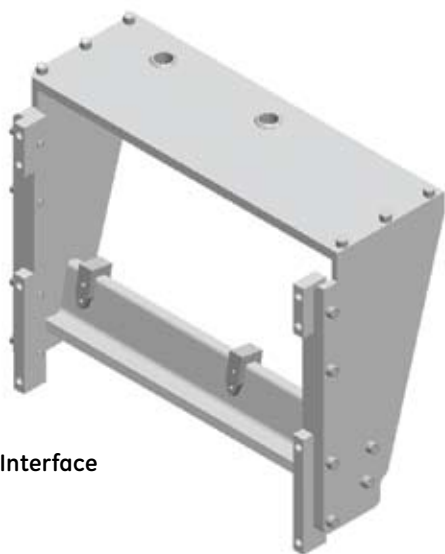
Height:	88.17 cm/34.71 in
Size:	2358.1 cm <sup>2</sup> /365.5 in <sup>2</sup>

### Folding side shelf (optional)

Weight limit:	23 kg/50 lb
Height:	88.17 cm/34.7 in
Width:	28.93 cm/11.39 in
Depth:	36.29 cm/14.29 in

### DIN rail (optional)

Side of machine:	38.3 cm/15.1 in
------------------	-----------------



Pendant Interface

\* Interface compatible with Kreuzer, Dräger and Getinge (ALM and Heraeus) ceiling columns. Contact your local GE Healthcare representative for solutions to other ceiling column manufacturers.

### Drawers (internal dimensions)

#### Small

Height:	10.5 cm/4.13 in
Width:	37.80 cm/14.88 in
Depth:	37.64 cm/14.82 in

#### Large

Height:	15.0 cm/5.91 in
Width:	37.80 cm/14.88 in
Depth:	37.64 cm/14.82 in

### Absorber bag arm (optional)

Arm length:	30.5 cm/12 in
Bag arm height (adjustable):	87 cm/34.3 in 104 cm/40.9 in

### Casters

Diameter:	12.5 cm/5 in
Brakes:	Individual locking front casters

### Pendant mounting interface (optional)\*

Height from floor:	769 mm/30.28 in
Suspended mass limit:	364 kg/800 lb

## Ventilator Operating Specifications

### Modes of ventilation (standard)

Volume Control Mode with tidal volume compensation

### Modes of ventilation (optional)

Pressure Control and PCV-VG - Pressure control volume guarantee

Synchronized Intermittent Mandatory Ventilation (SIMV) (volume and pressure)

PSVPro (Pressure Support with Apnea backup)

### Notification of spontaneous breathing

Patient-generated breaths will change pressure and flow waveform color for immediate clinician notification

### Ventilation parameters

Tidal volume range:	20 to 1500 mL (Volume Control and SIMV modes)
Incremental settings:	20 to 50 mL (increments of 1 mL) 50 to 100 mL (increments of 5 mL) 100 to 300 mL (increments of 10 mL) 300 to 1000 mL (increments of 25 mL) 1000 to 1500 mL (increments of 50 mL)
Minute volume range:	0 to 99.9 L/min
Pressure (P) Inspired range:	5 to 60 cm H <sub>2</sub> O (increments of 1 cm H <sub>2</sub> O) 5 to 1500 mL volume delivery

## Ventilator Operating Specifications *(continued)*

Pressure (P) max range:	12 to 100 cm H <sub>2</sub> O (increments of 1 cm H <sub>2</sub> O)
Pressure (P) support range:	Off, 2 to 40 cm H <sub>2</sub> O (increments of 1 cm H <sub>2</sub> O)
Rate:	4 to 100 breaths per minute for Volume Control and Pressure Control; 2 to 60 breaths per minute for SIMV, PSVPro and SIMV-PC+PSV (increments of 1 breath per minute)
Inspiratory/expiratory ratio:	2:1 to 1:8 (increments of 0.5)
Inspiratory time:	0.2 to 5.0 seconds (increments of 0.1 seconds) (SIMV and PSVPro)
Trigger window:	0 to 80% (increments of 5%)
Flow trigger:	1 to 10 L/min (increments of 0.5 L/min) 0.2 to 1 L/min (increments of 0.2 L/min)
Inspiration termination level:	5 to 75% (increments of 5%) - Rise Rate 1-10 (PCV, PCV-VG, PSV, SIMV and PCPro)

### Positive End Expiratory Pressure (PEEP)

Type:	Integrated, electronically controlled
Range:	OFF, 4 to 30 cm H <sub>2</sub> O (increments of 1 cm H <sub>2</sub> O)

### Ventilator performance

Pressure range at inlet:	240 kPa to 700 kPa/ 35 psig to 100 psig
Peak gas flow:	120 L/min + fresh gas flow
Flow valve range:	1 to 120 L/min
Flow compensation range:	200 mL/min to 15 L/min



Anesthesia delivery screen

## Ventilator Accuracy

### Delivery/monitoring accuracy

Volume delivery:	> 210 mL = better than 7% < 210 mL = better than 15 mL < 60 mL = better than 10 mL
Pressure delivery:	±10% or ±3 cm H <sub>2</sub> O
PEEP delivery:	±1.5 cm H <sub>2</sub> O
Volume monitoring:	> 210 mL = better than 9% < 210 mL = better than 18 mL < 60 mL = better than 10 mL
Pressure monitoring:	±5% or ±2 cm H <sub>2</sub> O

### Alarm settings

Tidal volume (V <sub>TE</sub> ):	Low: OFF, 0 to 1500 mL High: 20 to 1600 mL, OFF
Minute volume (V <sub>E</sub> ):	Low: OFF, 0 to 10 L/min High: 0 to 30 L/min, OFF
Inspired oxygen (FiO <sub>2</sub> ):	Low: 18 to 100% High: 19 to 100%, OFF

Apnea alarm: **Mechanical ventilation ON:**  
< 5 mL breath measured in 10 to 30 seconds, increments of 1 second

#### **Mechanical ventilation OFF:**

< 5 mL breath measured in 10 to 30 seconds, increments of 1 second

Low airway pressure:	4 cm H <sub>2</sub> O above PEEP
High pressure:	12 to 100 cm H <sub>2</sub> O (increments of 1 cm H <sub>2</sub> O)

Sustained airway pressure:

#### **Mechanical ventilation ON:**

(P) max < 30 cm H<sub>2</sub>O, the sustained limit is 6 cm H<sub>2</sub>O  
(P) max 30 to 60 cm H<sub>2</sub>O, the sustained limit is 20% of (P) max  
(P) max > 60 cm H<sub>2</sub>O, the sustained limit is 12 cm H<sub>2</sub>O

#### **PEEP and mechanical ventilation ON:**

Sustained limit increases by PEEP minus 2 cm H<sub>2</sub>O

#### **Mechanical ventilation OFF:**

(P) max ≤ 60 cm H<sub>2</sub>O, the sustained limit is 50% of (P) max  
(P) max > 60 cm H<sub>2</sub>O, the sustained limit is 30 cm H<sub>2</sub>O

Subatmospheric pressure: Paw < -10 cm H<sub>2</sub>O

Alarm silence countdown timer: 120 to 0 seconds

## Ventilator Components

### Flow transducer

Type:	Variable orifice flow sensor
Dimensions:	22 mm OD and 15 mm ID
Location:	Inspiratory outlet and expiratory inlet

(Optional autoclavable sensor available)

### Oxygen sensor

Type:	Optional galvanic fuel cell or paramagnetic with M-CAiO, M-CAiOV, M-CAiOVX or E-CAiO, E-CAiOV, E-CAiOVx options
-------	---

### Ventilator screen

Display size:	31 cm/12.1 in diagonal
Pixel format:	800 (H) x 600 (V)

### Communication ports

- RS-232C compatible serial interface
- Ethernet
- Datex-Ohmeda device interface solutions port
- USB port

## Aladin<sub>2</sub> Cassette

### Anesthetic agent delivery

Vaporizer:	Aladin <sub>2</sub> Cassette - Available with Isoflurane, Desflurane, Sevoflurane and Enflurane
------------	---

Number of active positions:	1
-----------------------------	---

### Dimensions

Height:	7 cm/2.76 in
Depth:	24 cm/9.45 in
Width:	14 cm/5.51 in
Empty weight:	2.7 kg/6.2 lb

### Cassette handling

No restriction for tilting during storage or handling

### Agent capacity

Total:	220 mL
When cassette indicator shows empty:	125 mL (90 mL residual volume)



Aladin<sub>2</sub> Cassettes

---

## Accuracy

All agents in typical operating conditions. Fresh gas flow range 1.0 to 10 L/min. Ambient temperature 18° to 25°C/ 64.4° to 77°F.

Enflurane, Isoflurane,  
Sevoflurane: ±0.2% v/v of full scale or ±10% of setting (whichever is greater)

Desflurane: ±0.5% v/v of full scale or ±10% of setting (whichever is greater)

In other operating conditions. Fresh gas flow range 0.2 to 15 L/min. Ambient temperature 10° to 35°C/50° to 95°F.

Enflurane, Isoflurane,  
Sevoflurane: ±0.4% v/v of full scale or ±20% of setting (whichever is greater)

Desflurane: ±1.0% v/v of full scale or ±20% of setting (whichever is greater)

---

## Agent setting ranges

Enflurane and Isoflurane: OFF, 0.2 to 5% in fresh gas flow, resolution 0.1%

Sevoflurane: OFF, 0.2 to 8% in fresh gas flow, resolution 0.1%

Desflurane: OFF, 1.0 to 18% in fresh gas flow, resolution 0.2%

---

## Compact Airway Modules

### General

M-CAiO, M-CAiOV, M-CAiOVX module software version 3.2 or higher; E-CAiO and E-CAiOV

Size (W x D x H): 7.5 x 21.5 x 11.2 cm/2.9 x 8.4 x 4.4 in

Weight: 1.6 kg/3.5 lb

Sampling rate: 200 mL/min ±20 mL

Automatic compensation for atmospheric pressure variation (500 to 800 mmHg) temperature and CO<sub>2</sub>/N<sub>2</sub>O and CO<sub>2</sub>/O<sub>2</sub> collision broadening effect. Parameter display update interval typically breath-by-breath. Functional alarms for blocked sample line, D-fend check and D-fend replacement.

---

## Non-disturbing gases

Ethanol, acetone, methane, nitrogen, nitric oxide, carbon monoxide, water vapor.

Maximum effect  
on readings: CO<sub>2</sub> < 0.2 vol %; O<sub>2</sub> < 2 vol %

---

### Carbon dioxide (CO<sub>2</sub>)

EtCO<sub>2</sub>: End-tidal CO<sub>2</sub> concentration

FiCO<sub>2</sub>: Inspired CO<sub>2</sub> concentration

---

### CO<sub>2</sub> waveform

Measurement range: 0 to 15%  
(0 to 15 kPa, 0 to 113 mmHg)

Accuracy: ±0.3 vol %\*

Datex-Ohmeda infrared sensor

Adjustable low and high alarm limits for EtCO<sub>2</sub> and FiCO<sub>2</sub>

---

### Respiration rate (RR)

Measurement range: 4 to 60 breaths per minute

Detection criteria: 1% variation in CO<sub>2</sub>

Adjustable low and high alarm limits for respiration rate; alarm for apnea

---

### Patient Oxygen (O<sub>2</sub>)

FiO<sub>2</sub>: Inspired O<sub>2</sub> concentration

EtO<sub>2</sub>: End-tidal O<sub>2</sub> concentration

FiO<sub>2</sub>-EtO<sub>2</sub>: Inspired-expired difference

---

### O<sub>2</sub> waveform

Measurement range: 0 to 100%

Accuracy: ±2 vol %\*

Datex-Ohmeda differential paramagnetic sensor

Adjustable low and high alarm limits for FiO<sub>2</sub> and EtO<sub>2</sub>; alarm for FiO<sub>2</sub> < 18%

---

### Nitrous Oxide (N<sub>2</sub>O)

Measurement range: 0 to 100%

Accuracy: ±3 vol %\* FiN<sub>2</sub>O > 82% alarm

---

### Anesthetic Agent (AA)

#### *Isoflurane and Enflurane*

Measurement range: 0 to 6%

Accuracy: ±0.2 vol %\*

#### *Sevoflurane*

Measurement range: 0 to 8%

Accuracy: ±0.2 vol %\*

#### *Desflurane*

Measurement range: 0 to 20%

Accuracy: 0 to 5% ±0.2 vol %\*

5 to 10% ±0.5 vol %

10 to 20% ±1 vol %\*

---

\* Typical value

## Non-disturbing gases *(continued)*

Waveform displayed

MAC value displayed

Identification threshold: 0.15 vol %\*

Agent mixture detection

Adjustable high and low alarm limits for EtAA, FIAA

### Patient Spirometry

*(available in Datex-Ohmeda Anesthesia Monitor module bay)*

**Note:** For ventilation parameters reference the ventilator operating specifications

Pressure-volume loop

Flow-volume loop

Pressure flow loop

Airway pressure and flow waveforms

Adjustable low and high alarm limits for Ppeak, PEEPtot and MVexp

Alarms for MVexp << MVinsp and for MVexp low. Detection through D-lite™, Adult D-lite+ and Pediatric D-lite+ or Pedi-lite™ flow sensor and gas sampler with following specifications:

**Note:** Compliance and airway resistance measurement are not available

	D-lite+	Pedi-lite and Pedi-lite+
Respiration rate:	4 to 35 bpm	4 to 50 bpm

#### Tidal volume

Measurement range:	150 to 2000 mL	15 to 300 mL
Accuracy:*	±6% or 30 mL	±6% or 4 mL

#### Minute volume

Measurement range:	2 to 20 L/min	0.5 to 5 L/min
Accuracy:*	±6%	±6%

#### Airway pressure

Measurement range:	-20 to +100 cm H <sub>2</sub> O	-20 to +100 cm H <sub>2</sub> O
Accuracy:*	±1 cm H <sub>2</sub> O	±1 cm H <sub>2</sub> O
Display units:	cm H <sub>2</sub> O, mmHg, kPa, mbar, hPa	
Flow Measurement range:	1.5 to 100 L/min	0.25 to 25 L/min
I:E Measurement range:	1:4.5 to 2:1	

## Sensor specifications

	D-lite and D-lite+	Pedi-lite and Pedi-lite+
Dead space:	9.5 mL	2.5 mL
Resistance:	at 30 L/min 0.5 cm H <sub>2</sub> O (D-lite) at 10 L/min 1.0 cm H <sub>2</sub> O (Pedi-lite)	

### Gas exchange\*\*

*(available in Datex-Ohmeda Anesthesia Monitor module bay)*

VO <sub>2</sub> :	Oxygen consumption
VCO <sub>2</sub> :	Carbon dioxide production
Measurement range:	20 to 1000 mL/min
Respiration rate range:	4 to 35 bpm

### Accuracy

FiO <sub>2</sub> < 65%:	±10% or 10 mL
65% < FiO <sub>2</sub> < 85%:	±15% or 15 mL

Detection through D-lite flow sensor or Pedi-lite flow sensor and gas sampler (see the measurement ranges and sensor specifications above).

## Electrical Specifications

### Current leakage

100/120 V:	< 300µA
------------	---------

### Power

Power input:	100-120 Vac, 50/60 Hz
Power cord:	Length: 5 m/16.4 ft Rating: 15A @ 120 Vac

### Battery backup

Backup power:	Demonstrated battery time under typical operating conditions is 90+ minutes when anesthesia machine is fully charged. Battery time under extreme conditions is 30 minutes with monitor.
Battery type:	Internal rechargeable sealed lead acid

### Inlet/outlet modules

#### 120 V

System circuit breakers:	15A
Outlets:	4 outlets on back, 3-2A, 1-3A individual breakers, isolation transformer

\* Typical value

\*\* Measurement not valid with O<sub>2</sub> and N<sub>2</sub>O mixtures

## Pneumatic Specifications

### Auxiliary common gas outlet (optional)

Connector: ISO 22 mm OD and 15 mm ID

### Gas supply

Pipeline input range: 280 kPa to 600 kPa/  
41 psig to 88 psig

Pipeline connections: DISS-male, DISS-female,  
DIN 13252, AS4059, BSPP 3/8,  
S90-116, or NIST

All fittings available for O<sub>2</sub>, N<sub>2</sub>O,  
and Air, and contain pipeline  
filter and check valve

Cylinder input: Pin indexed in accordance  
with CGA-V-1 or DIN (nut and  
gland); contains input filter and  
check valve

**Note:** Maximum 3 cylinders

Primary regulator diaphragm minimum  
burst pressure: 2758 kPa/400 psig

Primary regulator  
nominal output: ≤ 345 kPa/50 psig  
Pin indexed cylinder and  
DIN cylinder connections

### O<sub>2</sub> controls

Method: N<sub>2</sub>O shut off with loss of  
O<sub>2</sub> pressure

Supply failure alarm: Range: 193 kPa to 221 kPa/  
28 psig to 32 psig

Sounds at maximum volume  
every 10 seconds

O<sub>2</sub> flush: Range: > 35 L/min

### Alternate O<sub>2</sub> (safety flow)

Range: 500 mL/min minimum  
to 10 L/min

Indicator: Flow tube

Indicator accuracy: ±5% full scale

### Fresh gas

Flow range: 0 and 200 mL/min to 15 L/min  
(minimal flow capable)

Total flow accuracy: ±10% or ±40 mL/min of setting  
(whichever is greater)

O<sub>2</sub> flow accuracy: ±5% or ±20 mL/min of setting  
(whichever is greater)

Balance gas  
flow accuracy: ±5% or ±20 mL/min of setting  
(whichever is greater) Air/N<sub>2</sub>O

O<sub>2</sub> concentration range: 21% to 100%  
(when Air is available)

O<sub>2</sub> concentration  
accuracy: ±5% V/V for flows < 1 L/min  
±2.5% setting for flows > 1 L/min

Electronic mixer  
response time: 500 mS (10% to 90% flow step)

Compensation: Temperature and atmospheric  
pressure compensated to  
standard conditions of 20°C  
and 101.3 kPa

Hypoxic guard: Electronic

### Materials

All materials in contact with patient breathing  
gases are free of natural rubber latex

## Environmental Specifications

### System operation

Temperature: 10° to 35°C/50° to 95°F

Humidity: 15 to 95% relative humidity  
(non-condensing) per IEC  
68-2-3

Altitude: -440 to 3565 m/  
500 to 800 mmHg

### System storage

Temperature: -25° to 60°C/-13° to 140°F  
(Aladin);  
-25° to 50°C/-13° to 122°F  
(Aladin<sub>2</sub>)

Humidity: 10 to 95% relative humidity  
(non-condensing) per IEC 68-2-3

Altitude: -440 to 5860 m/  
375 to 800 mmHg

Oxygen cell storage: -15° to 50°C/5° to 122°F  
10 to 95% relative humidity  
500 to 800 mmHg

### Electromagnetic compatibility

Immunity: Complies with all requirements  
of EN 60601-1-2

Emissions: CISPR 11 group 1 class B

Approvals: UL 2601-1, CSA C22.2 #601.1,  
EN/IEC 60601-1, CE 0197, EN 740



## Breathing Circuit Specifications

### Operational modes

Breathing circuit is circle mode; SCGO option converts to open circuit mode

Carbon dioxide absorbent canister

Absorbent capacity: 800 g

Integrated expiratory limb water reservoir

### Ports and connectors

Exhalation: 22 mm OD ISO/15 mm ID taper

Inhalation: 22 mm OD ISO/15 mm ID taper

Bag port: 22 mm OD/22 mm ID (Australia)

### Bag-to-Ventilator switch

Type: Bi-stable

Control: Controls ventilator and direction of breathing gas within the circuit

### Integrated Adjustable Pressure Limiting (APL) valve

Range: 0.8 to 70 cm H<sub>2</sub>O

### Materials

All materials in contact with exhaled patient gases are autoclavable, except disposable flow sensors, O<sub>2</sub> cell, and M or E series modules. (Autoclavable flow sensors optional)

All materials in contact with patient gas are free of natural rubber latex.

### Breathing circuit parameters

Compliance: Bag mode: 1.82 mL/cm H<sub>2</sub>

Flow rate	(P) exp Bag Mode Pressure drop	(P) exp Vent Mode Pressure drop
	10 L/min	0.78 cm H <sub>2</sub> O
30 L/min	1.59 cm H <sub>2</sub> O	1.71 cm H <sub>2</sub> O
60 L/min	3.48 cm H <sub>2</sub> O	3.88 cm H <sub>2</sub> O

**Note:** With patient circuit and wye piece add 0.89 cm H<sub>2</sub>

### Anesthetic gas scavenging

AGSS Type	Hospital extract system required	Machine connection
High vacuum, low flow with indicator:	High vacuum 36 L/min @ 12 in Hg (305 mmHg)	DISS evac
High vacuum, variable flow with bag indicator:	High vacuum 30 L/min extract flow @ 12 in Hg (305 mmHg)	DISS evac
Passive:	Passive or external active system with air break	30 mm/1.2 in M ISO taper

GE Healthcare  
P.O. Box 7550  
Madison, WI 53707-7550  
USA

[www.gehealthcare.com](http://www.gehealthcare.com)



© 2008 General Electric Company – All rights reserved.

General Electric Company reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. Contact your GE Representative for the most current information.

GE and GE Monogram are trademarks of General Electric Company.

Aisys, Carestation, ABS, PSVPro, Patient Spirometry, INview, Aladin2, D-lite and Pedi-lite are trademarks of Datex-Ohmeda, Inc.

Datex-Ohmeda, Inc., a General Electric company, doing business as GE Healthcare.

AN-0157-09.08-EN-US

# Dräger Perseus® A500

The Perseus A500 was designed around you with ideas from people just like you. It's a highly integrated, state-of-the-art anesthesia platform that emphasizes ergonomics, ease-of-use, and functionality.



## TECHNICAL DATA

### Operational characteristics

Weight	150 kg (335 lbs), basic equipment
Dimensions (H x W x D)	148 cm x 115 cm x 79 cm (58.3 in x 45.2 in x 31.1 in)
Power consumption	70 W, typical; max. 2.2 kW with aux power sockets in use
Electrical mains connection (w/o isolation transformer)	100–240 V~ 50/60 Hz,
Electrical mains connection (w isolation transformer)	100–127 V~ 50/60 Hz or 200–240 V~ 50/60 Hz
Maximum power consumption	12 A
Integrated battery backup time	30 minutes minimum, 150 minutes typical (new and fully charged battery)
Data interfaces	2 x RS 232 (MEDIBUS protocol), 1x USB, 1x LAN
Integrated power sockets	4 x country specific (w isolation transformer) or 4 x IEC
Latex	Contains no latex-containing components
Storage surfaces and drawers	3 drawers: 1 standard (lockable) 2 optional (1 lockable)

### Ambient conditions

Temperature	10 to 40 °C (50 to 104 °F)
Air pressure	620 to 1060 hPa (9.0 to 15.3 psi) Equivalent to 4.000 meter height

### Fresh-gas delivery – electronic mixer

Fresh-gas flow	Off; 0.2 to 15 l/min
O <sub>2</sub> -concentration	21 to 100 % in Air, 25 to 100 % (in N <sub>2</sub> O)
O <sub>2</sub> -flush	25 to 75 l/min at 2.7 to 6.9 bar gas supply pressure
O <sub>2</sub> -flow for auxiliary and additional oxygen	Off; 2 to 10 l/min



**Dräger Perseus® A500**  
The combination with Infinity Acute Care System patient monitoring offers additional clinical advantages e.g. during patient transport or documentation.

## TECHNICAL DATA

### Ventilator TurboVent2 (electrically driven and electronically controlled turbo ventilator)

Standard modes of ventilation	<ul style="list-style-type: none"> <li>– Manual / Spontaneous (MAN / SPON)</li> <li>– Pressure controlled: time-cycled (PC-CMV), synchronized (PC-BIPAP),</li> <li>– Volume controlled: time-cycled (VC-CMV), time-cycled AutoFlow (VC-CMV/AF), synchronized AutoFlow (VC-SIMV/AF)</li> </ul>
Optional modes of ventilation	<ul style="list-style-type: none"> <li>– Pressure Support (CPAP / Pressure Support), selectable (PC-BIPAP/PS) and Autoflow Pressure support for pressure controlled ventilation (VC-SIMV/AF/PS), selectable CPAP for Man/Spont</li> <li>– Airway Pressure Release Ventilation (PC-APRV)</li> <li>– External fresh gas outlet (optional)</li> </ul>
Patient demographics	Neonates, pediatric patients, adults
Tidal volume	20 to 2,000 ml
Inspiratory pressure PINSP	3 to 80 hPa / mbar / cmH <sub>2</sub> O
Pressure limitation PMAX	7 to 80 hPa / mbar / cmH <sub>2</sub> O
Pressure support over PEEP	0 to 78 hPa / mbar / cmH <sub>2</sub> O
Respiratory rate	3 to 100/min
Inspiratory time	0.2 to 10 s
Inspiratory flow	0 to 180 l/min
PEEP/CPAP	Off, 2 to 35 hPa / mbar / cmH <sub>2</sub> O

### Measurement systems, displays and further functionality

- 15.3" (38.9 cm) touch screen, configurable user interface, intelligent alarm management incl. comprehensive help database
- Minute volume (MV) and tidal volume (VT); respiratory rate (RR); peak inspiratory pressure (PIP), plateau pressure (Pplat), mean airway pressure (Pmean), PEEP; compliance (C), resistance (R)
- Integrated gas bench for measuring inspiratory and expiratory gas concentrations of O<sub>2</sub>, N<sub>2</sub>O, CO<sub>2</sub> and anesthetic agents (automatic detection of Halothane, Enflurane, Isoflurane, Sevoflurane and Desflurane); age corrected display of xMAC values; optional prediction of anesthetic agent concentrations, optional prediction of inspiratory O<sub>2</sub> concentrations
- Simultaneous display of 3 real-time curves for CO<sub>2</sub>, O<sub>2</sub> and anesthetic agent concentrations, airway pressure, inspiratory and expiratory flow
- Bar graph display of volume and tidal volume; virtual flow tubes for O<sub>2</sub>, AIR, N<sub>2</sub>O
- Simultaneous display of 2 loops: Volume-Pressure and Flow-Volume, reference loop
- Graphical or tabular display of trends and mini-trends simultaneous with real time curves
- Econometer to display fresh gas efficiency (econometer trend display optional)
- Fresh gas and anesthetic agent consumption measurement per case and per last zeroing
- AutoSet for alarm limits
- Device Status Panel with LC Display for display of airway pressure, supply status of battery and gases (CGS + cylinders)
- Dosing of O<sub>2</sub> and anesthetic agents during Man/Spont ventilation possible, even when device is switched off
- Programmable, time-based fully automatic start-up and self test of device and software
- Integrated, dimmable illumination of working and documentation surfaces, illuminated vaporizers (optional)
- Heated breathing system, tool-free exchangeability
- Central brake, smooth running castors with cable deflectors
- Autoclaveable ventilator

#### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany

[www.draeger.com](http://www.draeger.com)

#### Manufacturer:

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany

#### REGION EUROPE CENTRAL AND EUROPE NORTH

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany  
Tel +49 451 882 0  
Fax +49 451 882 2080  
[info@draeger.com](mailto:info@draeger.com)

#### REGION EUROPE SOUTH

Dräger Médical S.A.S.  
Parc de Haute Technologie  
d'Antony 2  
25, rue Georges Besse  
92182 Antony Cedex, France  
Tel +33 1 46 11 56 00  
Fax +33 1 40 96 97 20  
[dlmfr-contact@draeger.com](mailto:dlmfr-contact@draeger.com)

#### REGION MIDDLE EAST, AFRICA

Drägerwerk AG & Co. KGaA  
Branch Office  
P.O. Box 505108  
Dubai, United Arab Emirates  
Tel +971 4 4294 600  
Fax +971 4 4294 699  
[contactuae@draeger.com](mailto:contactuae@draeger.com)

#### REGION ASIA / PACIFIC

Draeger Medical  
South East Asia Pte Ltd.  
25 International Business Park  
#04-27/29 German Centre  
Singapore 609916, Singapore  
Tel +65 6572 4388  
Fax +65 6572 4399  
[asia.pacific@draeger.com](mailto:asia.pacific@draeger.com)

#### REGION CENTRAL AND SOUTH AMERICA

Dräger Panama Comercial  
S. de R.L.  
Complejo Business Park,  
V tower, 10th floor  
Panama City  
Tel +507 377 9100  
Fax +507 377 9130  
[contactcsa@draeger.com](mailto:contactcsa@draeger.com)

#### CANADA

Draeger Medical Canada Inc.  
2425 Skymark Avenue, Unit 1  
Mississauga, Ontario, L4W 4Y6  
Tel +1 905 212 6600  
Toll-free +1 866 343 2273  
Fax +1 905 212 6601  
[Canada.support@draeger.com](mailto:Canada.support@draeger.com)

Locate your Regional Sales  
Representative at:  
[www.draeger.com/contact](http://www.draeger.com/contact)





Item Description  
Suction, portable

Equipment Number  
10-215

Potential Manufacturer  
-----  
Laerdal  
-----  
Allied Healthcare  
-----

Model Number  
-----  
LSU  
-----  
Optivac G178  
-----

**Further Description:**

- Portable suction machine used to collect unwanted fluids in healthcare environment



**Specifications:**

**Dimensions and weight:**  
W x D x H: 330 x 160 x 320 mm  
Weight: 5 kg

**Electrical Requirements:**  
120 V AC, 60 Hz

**Design and Installation Notes:**

- Wall backing is required where it is wall mounted

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.

## Specifications

### Classification

Electrically powered medical suction equipment for field and transport use, according to ISO10079-1.

High vacuum/high flow.

The LSU is designed for use in road ambulances in accordance with IEC 60601-1-12.

Not suitable for use in the presence of flammable liquids or gases.

Internally powered/class II equipment type BF, according to IEC 60601-1

The degree of protection provided by the chassis is according to IP34:

- Protected against solid foreign objects of 2.5 mm Ø and greater.
- Protected against splashing water.
- Protected against access with a wire.

### General tolerance

Overall tolerance  $\pm 5\%$

Dimensions	
Size (h x w x d)	315 mm x 330 mm x 160 mm (12.4 in x 13 in x 6.3 in)
Weight	4 kg. (8.4 lbs) (including battery NiMH)
Canister Capacity	1000 ml
Canister graduation accuracy	$\pm 5\%$ of full scale
Patient Suction Tubing (non-sterile) Cat.No 770410: 8 mm (0.315 in.) inside diameter x 1.5 m (59 in.) length.	

Temperature and Environment	
Operating/Charging Temperature	0 °C (32 °F) to + 40 °C (104 °F)
Recommended Charging Temperature	15 °C (59 °F) to + 25 °C (77 °F)
Long term Storage Temperature	0 °C (32 °F) to + 40 °C (104 °F)
Max. 24 hour Storage Temperature	-30 °C (-22 °F) to + 70 °C (158 °F)
The time required for the LSU to warm from the minimum storage temperature between uses until it is ready for intended use is min 90 minutes at room temperature.	
The time required for the LSU to cool from the maximum storage temperature between uses until it is ready for intended use is min 90 minutes at room temperature.	
Humidity (Operating & Storage)	5 - 95% RH non-condensing
Altitude	0 - 4000 m

Battery and Charging	
Operating/charging AC	** 100-240 VAC, 50-60 Hz
Operating/charging DC	** 12-28 VDC

## Specifications

Battery	12VDC 2 Ah, NiMH, rechargeable
Charging Time	3 hours for approx. 80% battery capacity, 4 hours for fully charged.
Fuses	The LSU has no fuses to be replaced by the user.
Supply Mains	When the unit is connected to SUPPLY MAINS through one of its power cords, SUPPLY MAINS voltages are present within the unit. To isolate the unit from SUPPLY MAINS, disconnect the unit from the power cord, or disconnect the power cord from SUPPLY MAINS. If placed in a mounting bracket, disconnect the unit from the mounting bracket.
** The external AC power source must be able to deliver a current of min. 1A and the external DC power source min. 5A, if not the LSU may switch to battery operation.	

## Operation

Approx. free air flow at different settings:

mmHg	80	120	200	350	500+
l/min	12	16	20	23	>25

Approx. battery operation time (free air flow) at different settings ( $\pm 10\%$ ):

mmHg	80	120	200	350	500+
min	3h20	2h20	1h30	1h	45

Approx noise levels (free air flow) at different settings:

mmHg	80	120	200	350	500+
dBA	48	48	51	53	56

Vacuum - Max: > 500 mmHg (66.5 kPa).

Vacuum - Range: 80 - 500+ mmHg (11 - 66.5 kPa).

Vacuum Indicator accuracy:  $\pm 5\%$  of full scale.

## Operation with High Efficiency Filtration Kit

The flow and operation time of the LSU will be reduced when the Vacuum Connector Tubing is replaced with a High Efficiency Filtration Kit.

The LSU with High Efficiency Filtration Kit installed is in accordance with ISO 10079-1.

The filter has an efficiency of 99.97% down to a particle size of 0.3  $\mu\text{m}$ .

*OptiVac<sup>®</sup>*  
*AC/DC Portable Suction Unit*  
*The Quality of Gomco<sup>®</sup> Where You Need It Most.*



The OptiVac is the most versatile product in the industry-leading Gomco line of portable suction equipment. Its compact design, ease of operation, rechargeable battery, AC power supply, and fully-enclosed unit are just a few of its unique features.

**Standard Features**

- 3 hours run time at maximum vacuum on a fully-charged battery
- 1 hour run time after just 2 hours of charging
- AC or DC operation ... ready when you are, 24/7
- 25-550 mm Hg vacuum range, coupled with greater than 30 lpm flow at open flow, provides powerful suction for faster aspiration
- Fully chargeable in 8 hours
- Will run at full performance on AC power even with a depleted battery
- Battery maintenance system keeps the battery fully charged but not over-charged
- Long-life internal rechargeable battery eliminates the need for frequent replacement
- Sealed water-resistant unit is easy to clean, and minimizes potential contamination or damage to the compressor and battery.
- Angled control panel for easy viewing
- Impact-resistant and durable
- 3-year warranty on the unit, 1 year on the battery

# OptiVac® AC/DC Portable Suction Unit



Tubing can be cut to desired length and attached to disposable hydrophobic bacteria filter.



L190-BAG



20-08-0003



01-90-3928



G180CE  
G180CE-JAR



**EMERGO EUROPE**  
Prinsessegracht 20  
2514 AP The Hague  
The Netherlands

## SPECIFICATIONS

<b>Dimensions:</b>	16.8" W x 7.5" D x 9.4" H (427 mm x 191 mm x 239 mm)
<b>Weight:</b>	11.4 lbs. (5.18 kg)
<b>Vacuum Range:</b>	-25 to -550 mm Hg
<b>Vacuum Flow:</b>	Greater than 30 lpm at open flow
<b>AC Operation:</b>	110-230 volts, 50/60 Hz
<b>DC Operation:</b>	12 volt DC battery
<b>Battery Type:</b>	Sealed lead acid
<b>Battery Life at Maximum Vacuum:</b>	3 hours at 550 mm Hg
<b>Battery Charge Time:</b>	Full charge in 8 hours
<b>Battery Charge Status:</b>	Yes; 5 indicator lights
<b>Bad Battery Sensor:</b>	Yes; 5 red LEDs
<b>Battery Depleted:</b>	Unit automatically shuts off
<b>AC Charger:</b>	Internal charger
<b>Operation with Depleted Battery:</b>	Yes; charging circuit can run on AC if battery is depleted
<b>Operating Temperature:</b>	-4°F to 120°F
<b>Sound Level:</b>	Less than 60 dBA
<b>UL/ETL Listed:</b>	Yes
<b>Warranty:</b>	3 years on unit, 1 year on battery
<b>Regulatory Approvals:</b>	FDA, CE, HC

## ORDERING INFORMATION\*

<b>G180</b>	OptiVac Portable Suction Unit, 1500 ml disposable canister, 110-230V/50-60 Hz
<b>G180CE</b>	OptiVac Portable Suction Unit, 1500 ml disposable canister, 110-230V/50-60 Hz
<b>G180CE-JAR</b>	OptiVac Portable Suction Unit, 1200 ml polycarbonate bottle, 110-230V/50-60 Hz
<b>G180-JAR</b>	OptiVac Portable Suction Unit, 1200 ml polycarbonate bottle, 110-230V/50-60 Hz

\*All models come with disposable suction tubing and 3 disposable hydrophobic bacteria filters

## ACCESSORIES

<b>20-08-0003</b>	Disposable Collection Canister, 1500 ml, stem inlet (48/case)
<b>20-08-0016</b>	Disposable Collection Canister, 1500 ml, stem inlet (16/case)
<b>01-90-3928</b>	Disposable Hydrophobic Bacteria Filter, 1/4" hose barb x 1/4" hose barb (3/pkg.)
<b>L190-BAG</b>	Carrying Case with shoulder strap

## REPLACEMENT TUBING KITS

<b>01-90-2000</b>	Suction Tubing Kit: 1 each 18" & 72" length, 1/4" ID, blue-tipped, clear PVC
<b>S610100</b>	Suction Tubing Kit: 1 each 15" & 72" length, 1/4" ID, blue-tipped, clear PVC
<b>S615473</b>	Suction Tubing Kit: 1 each 15" length, 1/4" ID, blue-tipped, clear PVC
<b>S615725</b>	Suction Tubing Kit: 1 each 72" length, 1/4" ID, blue-tipped, clear PVC



Allied Healthcare Products, Inc. ▪ 1720 Sublette Avenue ▪ St. Louis, MO 63110 USA  
314/771-2400 ▪ 800/444-3954 ▪ FAX: 314/771-0650 ▪ www.alliedhpi.com

U.S.  
Toll Free: 800/444-3940  
FAX: 800/477-7701

Canada & Mexico  
Toll Free: 800/446-0552  
FAX: 800/246-6201

International  
Telephone: 314/268-1683  
FAX: 314/771-5183

ISO 13485: 2003

©Allied Healthcare Products, Inc.®

All specifications are nominal and subject to change without notice.

Form 21-00-0001  
Rev. April 2017





Item Description  
**Ring Stand**

Equipment Number:  
**10-298**

Potential Manufacturer	Model Number
-----	-----
Mac Medical	-----
-----	-----
COULMED	-----
-----	-----

**Further Description:**

- Stainless steel ring with removable 7-quart basin



**Specifications:**

**Dimensions:**

W x D x H: 460 x 460 x 870 mm

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.

<p>Item Description: Mayo, Stand</p>	<p>Equipment Number: 10-298.1</p>
--	---------------------------------------

<p>Potential Manufacturer ----- Global Industrial ----- Uline -----</p>	<p>Model Number ----- Blickman ----- -----</p>
---	--

**Further Description:**

- Adjustable height stand with automatically locks when you lift the tray frame.



**Specifications:**

**Dimensions:**

W x D x H: 540 x 410 x 1580 mm

**Design and Installation Notes:**

Item Description <b>Bassinets</b>	Equipment Number <b>10-302</b>
--------------------------------------	-----------------------------------

Potential Manufacturer ----- <b>Hill-rom</b> ----- <b>Stryker</b> -----	Model Number ----- <b>New Born</b> ----- <b>Nara</b> -----
--	---

**Description**

- A cart with a securely placed bassinet on top




**Specifications:**

**Dimensions and weight:**

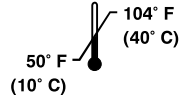
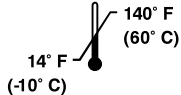
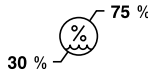
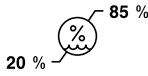
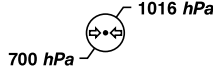
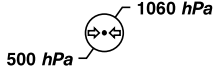
Nara: W x D x H: 1080 x 530 x 1030 mm  
New Born W x D x H: 990 x 460 x 1020 mm

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.

	Safe working load	
	Mattress	12 lb (5.4 kg)
	Basket	12 lb (5.4 kg)
	Each drawer	5 lb (2.3 kg)
	Retractable work space	5 lb (2.3 kg)
	Chart holder	5 lb (2.3 kg)

Description	Length	Width	Height
Bassinet base	33 in. (83.8 cm)	21 in. (53.3 cm)	n/a
Basket	26.5 in. (67.3 cm)	12.5 in. (31.7 cm)	7.5 in. (19.0 cm)
Two-way drawer (each)	19.25 in. (48.8 cm)	13.75 in. (34.9 cm)	6.25 in. (15.8 cm)
Retractable work space	11.5 in. (29.2 cm)	10 in. (25.4 cm)	n/a
Chart holder	10 in. (25.4 cm)	2.75 in. (6.9 cm)	13.5 in. (34.2 cm)
Mattress	26 in. (66.04 cm)	12 in. (30.48 cm)	1.5 in. (3.81 cm)
Mattress material	Polyester fiber 100% all new material		
Adjustable height	30.5 in. to 39.5 in. (77.4 to 100 cm)		

Environmental conditions	Operation	Storage and transportation
Ambient temperature		
Relative humidity (non-condensing)		
Atmospheric pressure		

Stryker reserves the right to change specifications without notice.

Home Clinical Bassinet, with Two-Door Cabinet, W31" x H38-1/2" Depth 17-3/4"



Blickman Inc

## Clinical Bassinet, with Two-Door Cabinet, W31" x H38-1/2" Depth 17-3/4"

Transport baby comfortably and safely.

- Two deep storage compartments.
- Inverted U frame design.
- Right side has a removable shelf.
- Cabinet: W29" x H19" Depth 16-3/4".
- Four-inch, ball-bearing, swivel casters, two with brakes.
- Optional infant basket and mattress pad sold separately.

Additional Information:

- **Dimensions:** Bassinet W31" x H38-1/2"
- **Dimensions (other):** Cabinet W29" x H15"
- **Feature / Property:** with Two-Door Cabinet
- **Depth:** 17.75"
- **Width:** 31"
- **Height:** 38.5"

Catalogue Number

8048SS

- **Manufacturer Number:** 8048SS
- **Feature / Property:** with Two-Door Cabinet

- **Invoice Description:** BASSINET W/CABINET  
COLMAN MODEL 1EA



[contactus@cardinalhealth.ca](mailto:contactus@cardinalhealth.ca)

Copyright© Cardinal Health Canada Inc. All rights reserved.



## Equipment Datasheet

Item Description <b>Bed, Standard</b>	Equipment Number <b>10-347</b>
--	-----------------------------------

Potential Manufacturer ----- <b>Stryker</b> ----- <b>Hill-Rom</b> ----- <b>Umano Medical</b>	Model Number ----- <b>GoBed II, S3</b> ----- <b>Care Assist</b> ----- <b>OOK Snow</b>
--	---

**Further Description:**

- Patient medical bed with integrated patient controls and patient scale with 500 lb. patient weight capacity
- Network ready to be connected to Meditech and Central Monitoring and remote access



**Specifications:**

**Dimensions and weight:**  
W x D x H: 1020x 2400 x 830 mm  
Weight: 200 Kg

**Electrical Requirements:**  
120 V AC, 60 Hz, 10 A  
2 outlets required

**Data Requirements:**  
1 Data port  
WIFI connectivity

**Design and Installation Notes:**

- Wall mounted 37 Pin with connection to the hospital network

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



## Equipment Datasheet

Item Description <b>Bed, Harm Resistant</b>	Equipment Number <b>10-347.1</b>
--	-------------------------------------

Potential Manufacturer ----- <b>Stryker</b> -----	Model Number ----- <b>Spirit Mental Health / Rose Psych</b> -----
--	--

**Further Description:**



**Specifications:**

Attached below.

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon.  
Final installation specifications are dependent upon selected supplier's shop drawings.



# Psych Bed

Designed to Simplify Patient Care



**The Stryker Psych Bed addresses the demands put on today's nursing professional.** Keeping our product design focused on key needs of the mental health environment ensures a practical and user-friendly patient platform. Safety features like low bed height and optional features like tamper-proof screws help relieve some of the challenges that occur in this unique environment.



**Optional Removable Crank Handle**



**Optional Centrally Located Brake**



**Optional Complete Siderail Coverage**

**Full- or half-length chrome siderails**

**Centrally located lock and steer system**

**Removable crank handles for bed positioning**

**Permanently attached head and footboards**

**Tamperproof screws**

## Psych Beds



### Standard Features

- 6-inch (15 cm) casters
- Two drainage bag hooks
- Eight IV pole and traction equipment sockets (optional)
- Patient restraint locations
- Lateral and foot end mattress retainers
- Trend. / reverse Trend. controls
- Roller bumpers at head end of bed

### Optional Features

- Removable crank handle
- Upright oxygen bottle holder
- Patient helper
- Monitor tray
- Retractable fifth-wheel steering
- Stabilizer legs
- Permanently attached head and footboards
- Removable IV pole
- Tamperproof screws
- Trend. / reverse Trend. controls
- Half-length split or head end only chrome siderails

### Specifications

Model Number	FL23P
Overall Length	90.4" (229.6 cm)
Overall Width	41.3" (104.9 cm)
Weight Capacity	500 lb. (226 kg)
Height Range (to litter top)	
High	29" (73.7 cm)
Low	15" (38.1 cm)
Litter Positioning	
Backrest	0°–62°
Knee Gatch	0°–32°
Trend. / Reverse Trend.	±14°
Patient Surface	35" x 78" (89 x 198 cm)
	35" x 80" (89 x 203 cm)
Caster Diameter (standard)	6" (15 cm)

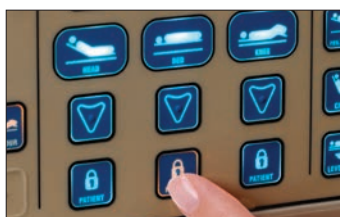
*Stryker reserves the right to change specifications without notice.*

# Spirit® Mental Health Beds

The Safe Choice  
for Mental Health



**Mental Health departments can place unique demands on hospital employees.** Stryker has worked to create a solution with features that help to satisfy these demands and increase security within these specific units when partnered with specialized hospital processes. In addition to the specialized security features that can be added to Spirit beds, all beds have a 10.75-inch low bed height. This low height helps to significantly reduce fall injuries and increase patient comfort to create a more secure sleeping environment.



**Any or all patient controls can be locked to restrict use with the Patient Lock-Out buttons. Mental Health beds are equipped with an additional security code lock-out.**



**Optional Bed Exit Alarm monitors patient's bed exit activity in single-zone.**



**Nonremoveable mattress deck**

**Siderails comply with the FDA's monitored Entrapment Zones 1-4**

**Filled siderails, headboard and footboard to help prevent harm**

**Psych lockout restricts all bed functions**

**Nonremoveable mattress deck**

**Tamper-resistant hardware**

**Permanent control box cover**

**Removable brake**

# Spirit<sup>®</sup> Mental Health Beds



## Spirit Plus<sup>®</sup> Mental Health Bed

- Battery back-up
- Patient lock-outs
- Central Lock-and-Steer Brake System
- Footboard control panel
- Auto contour
- Low chair positioning
- Trendelenburg / reverse Trendelenburg
- Total bed lock-out
- Moulded plastic headboard/ footboard
- Embedded patient controls in siderails
- Integrated nurse call button
- Power status indicator
- High quad rails
- Filled rails and boards
- Mental Health Package (tamper-resistant hardware, nonremovable headboard and footboard, removable brake pedal)

## Spirit Select<sup>®</sup> Base Mental Health Bed

(includes all features listed above, plus:)

- Backlit staff controls
- Power status indicator
- Level-all bed reset
- Built-in scale
- Integrated single-zone bed exit alarm
- Programmable night light
- 4-inch tool-less bed extension

## Spirit Select Middle Mental Health Bed

(includes all features listed above, plus:)

- 120 V AC accessory outlet
- Obstruction sensors

## Spirit Select Loaded Mental Health Bed

(includes all features listed above, plus:)

- Watchdog<sup>®</sup> Bed Status Indicator

## Specifications

Model Number	5700
Overall Length	
Minimum	91.75" (233 cm)
Maximum	95.75" (243 cm)
Overall Width	40" (101.6 cm)
Weight Capacity	500 lb. (227 kg)
Height Range (to litter top)	
High	34" (86 cm)
Low	10.75" (27 cm)
Litter Positioning	
Knee Gatch	0°– 25°
Trend./Reverse Trend.	14° (+/-)
Patient Surface	
Minimum	35" x 80" (89 x 203 cm)
Maximum	35" x 84" (89 x 213 cm)
Caster Diameter	5" (12.7 cm)

## Electronics

Volts	120 V AC
-------	----------

*Stryker reserves the right to change specifications without notice.*



Item Description  
**Exercise, Bike**

Equipment Number  
**10-385**

Manufacturer ----- <b>KETTLER</b> -----	Model ----- <b>Giro GT Training Cycle</b> ----- <b>Giro R Recumbent Cycle</b>
--	---

**ECRI Definition:**  
Aerobic cycle exercisers designed to simulate the motions of riding a bicycle; the bicycles remain stationary while the wheels move. These exercisers are usually self-powered devices; they may use friction belts or wheels, magnets, fans, or hydraulics to increase resistance. Some stationary bicycles may include a motor to regulate speed. The bicycles usually include workout program modes that can adjust resistance and a monitor to display the workout time, distance, speed, calories burned, and heart rate; they often have handlebars with grip pulse sensors, and some bicycles have heart-rate controls that can adjust the resistance level to suit the targeted heart rate. Stationary bicycle exercisers are intended to increase cardiovascular endurance by keeping the heart and pulmonary rate elevated for a continuous period of time. Additionally, they provide strength and endurance to the lower-limb muscles (e.g., quadriceps, hamstrings, calves, gluteus). Dedicated bicycles with upright and recumbent sitting positions for users are available.

- Further Description:**
- Self-generated power – no plug required
  - Powder coated, high carbon tubular steel frame
  - 18.2 kg (40 lb.) flywheel
  - No maintenance Poly V drive belt system
  - Maintenance free sealed ball bearings
  - Quick start feature
  - Motor controlled variable magnetic resistance system
  - 32 levels of resistance
  - Blue back-lit LCD display
  - Displays: Time, total distance, speed, RPM, energy consumption and heart rate
  - Graphic dot matrix hill profiles
  - 12 workout programs
  - Heart rate control program automatically adjust resistance to maintain target rate
  - Hand grip sensors for heart rate
  - Rubber coated handlebars
  - 17.8 cm (7 in.) wide, contoured, thick padded saddle with 11 position adjustments
  - Aggressive grip pedals with toe cages and heavy duty crank arms
  - Built-in levelers
  - Transport wheels
  - Weight capacity: 129.3 kg (285 lb.)



- Installation consideration:**
- Possible floor mounting
  - Consider enough clearance around the unit for practical usage

- Specifications:**
- Dimensions (L x W x H): 170 cm x 64 cm x 115 cm (67 in. x 25 in. x 45 in.)
  - Weight: 65.8 kg (145 lb.)
  - May need electrical 120V

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



Item Description  
**Warming Unit, Blanket**

Equipment Number  
**10-414**

Potential Manufacturer	Model Number
-----	-----
Imperial Surgical	OR 7xxx
-----	-----
Steris	AMSCO® Dual Compartment
-----	-----

**Further Description:**

- Stainless steel cabinet to store blankets and keep them warm for patient care



**Specifications:**

**Dimensions and weight:**

Small: W x D x H: 770 x 720 x 930 mm

Large: W x D x H: 770 x 720 x 1900 mm

Weight: 220 Kg (empty)

**Electrical Requirements:**

120 V AC, 60 Hz, 15 A

**Design and Installation Notes:**

- Small warmer will require a pedestal or table or counter to be placed on

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



Item Description:  
Doppler, vascular, Blood flow detector

Equipment Number:  
10-429

Potential Manufacturer	Model Number
-----	-----
ARJOHUNTLEIGH	
-----	-----
-----	-----

**Further Description:**

- non-invasive tool for vascular assessment that can be hand held or stand mounted



**Specifications:**

**Dimensions:**

Hand held Doppler: W x D x H: 80 x 30 x 150 mm  
 On stand Doppler: 510 x 510 x 1300 mm

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



Item Description  
**Warming Unit, Blood-Intravenous Solution**

Equipment Number  
**10-447**

Potential Manufacturer  
-----  
**Smith's medical**  
-----  
**3M**  
-----  
**Carefusion**

Model Number  
-----  
**HL**  
-----  
**Ranger**  
-----  
**enFlow**

**Further Description:**

- Keeps blood and fluids warm between 37 -42°C, prior to delivering it to the patient



**Specifications:**

**Dimensions and weight:**

*Warmer on IV pole:*  
W x D x H: 550 x 550 x 1900 mm  
Weight: 20 kg

**Electrical Requirements:**

115VAC, 60 Hz, 10 Amps

**Design and Installation Notes:**

- UPS power is required

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.





Item Description  
**Rapid Infuser**

Equipment Number  
**10-447.2**

Potential Manufacturer ----- <b>Smiths' medical</b> ----- <b>3M</b> -----	Model Number ----- <b>Fast Flow Fluid Warmer</b> ----- <b>Ranger</b> -----
--	---

**Further Description:**

- Used for cases that requires large volume of blood infusion

**Specifications:**

**Dimensions and weight:**  
W x D x H: 510 x 510 x 1700 mm  
Weight: 30 kg

**Electrical Requirements:**  
120VAC, 60 Hz, 15A



**Design and Installation Notes:**

- UPS power is required in OR

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



# Equipment Datasheet

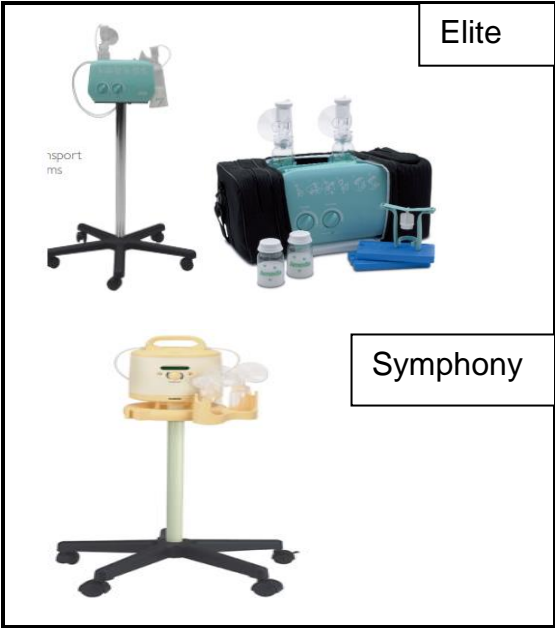
Item Description  
**Pump, Breast**

Equipment Number  
**10-485**

Potential Manufacturer ----- <b>AMEDA/EGNELL</b> ----- <b>Medela</b> -----	Model Number ----- <b>Elite</b> ----- <b>Symphony</b> -----
---	--

**Further Description**

- hospital-grade electric double breast pump with overflow shutoff, comes mobile on a stand or in a carrying case option



**Specifications:**

**Dimensions and weight:**

W x D x H: 640 x 640 x 900 mm  
Weight: 12 kg

**Electrical Requirements:**

120 V AC, 60 Hz, , 2.5 A

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.

Item Description  
Furniture, Table, Bedside

Equipment Number  
10-531

Manufacturer	Model Number
-----	-----
Hill Rom	Harbor Glen
-----	-----
Nurture	Aero-Metropolitan-Artisan
	-----
	Skylar 25BT2001



This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.

Item Description <b>Washer, Cart</b>	Equipment Number <b>10-634</b>
---	-----------------------------------

Potential Manufacturer ----- <b>Steris</b> ----- <b>Getinge</b> -----	Model Number ----- <b>L Vision</b> ----- <b>Series</b> -----
--	---

**Further Description:**

- Mechanical washer intended for use in washing, low-level disinfecting, and drying of carts, utensils, beds and other miscellaneous reusable items used in the care of patients.
- Safety guard rails, with two external emergency stop buttons

**Specifications:**

**Dimensions and weight:**

W x D x H: 3050 x 3610 x 2870 mm

Weight: 3200 Kg

**Electrical Requirements:**

208V AC, 3 phases, 50/60 Hz  
120V multiple outlet required for service and...

**Data Requirements:**

1 Data port

**Plumbing Requirements:**

Water: Required (Hot and Cold)  
Drain: Required  
Steam: required  
RO water system required  
Compressed Air required  
Exhaust and ventilation required  
Condense Return is required  
Central Soap system is required



**Design and construction Notes:**

- Complex installation equipment, final selected vendor instructions are required prior to installation
- Adequate floor support as this is pit mounted equipment;
- Floor flashed entrance for the equipment is required
- Pass through equipment
- Additional access for servicing from the side is required
- Seismic restrain is required

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



# Equipment Datasheet

Item Description:  
Rack, Cart Washer

Equipment Number:  
10-634.1

Potential Manufacturer  
-----  
Gettinge  
-----  
Steris

Model Number  
-----  
Universal Cart  
-----

**Further Description:**

- A cart that can handle containers, utensils and similar items.



**Specifications:**

**Dimensions:**

W x D x H: 1320 x 820 x 1710 mm

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



# Equipment Datasheet

Item Description:  
Rack, Washer/Disinfector

Equipment Number:  
10-634.2

Potential Manufacturer ----- Gettinge ----- Steris -----	Model Number ----- ----- -----
---	---

**Further Description:**

- A rack used for instruments placed in the washer disinfector.



**Specifications:**

**Dimensions:**  
Rack :W x L x H:560 x (700, or 780) x 630 mm

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



# Equipment Datasheet

Item Description:  
Rack, Cart Washer

Equipment Number:  
10-634.1

Potential Manufacturer  
-----  
Gettinge  
-----  
Steris

Model Number  
-----  
Universal Cart  
-----

**Further Description:**

- A cart that can handle containers, utensils and similar items.



**Specifications:**

**Dimensions:**

W x D x H: 1320 x 820 x 1710 mm

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



# Equipment Datasheet

Item Description:  
Rack, Washer/Disinfector

Equipment Number:  
10-634.2

Potential Manufacturer ----- Gettinge ----- Steris -----	Model Number ----- ----- -----
---	---

**Further Description:**

- A rack used for instruments placed in the washer disinfector.



**Specifications:**

**Dimensions:**

Rack :W x L x H:560 x (700, or 780) x 630 mm

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



Item Description  
**Cart, Delivery (transport)**

Equipment Number  
 10-635.2

Manufacturer  
 -----  
**RubberMaid**  
 -----  
 -----

Model Number  
 -----  
 -----  
 -----


- Further Description:
- Easy-to-clean smooth surfaces.
  - Quiet casters and plastic construction help eliminate noise.
  - User-friendly easy to grip handles.
  - Large 4" (10.2 cm) non-marking swivel casters.
  - High style appearance with brushed aluminum uprights.
  - 200 LB weight load.




3424-88

Specifications:

Dimensions:  
 Length: 33.6 in 85.4 cm  
 Width: 18.6 in 47.3 cm  
 Height: 37.8 in 95.9 cm  
 Mass Capacity [Nom]: 200 lb 90.7 kg  
 Shipping weight 13.6 kg

  
 Platinum  
 PLAT





3355-88

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.

Item Description  
**Dolly, Platform Truck**

Equipment Number  
**10-635.4**

Manufacturer  
 -----  
**Uline**  
 -----  
 -----

Model Number  
 -----  
**H-2667**  
 -----  
 -----



Specifications:

METAL PLATFORM TRUCKS				
MODEL NO.	DECK SIZE W x L	LOAD CAPACITY	WHEEL TYPE	WT. (LBS.)
<a href="#">H-2666</a>	24 x 48"	2,000 lbs.	Polyolefin	78
<a href="#">H-2667</a>	30 x 60"			102
<a href="#">H-6708</a>	36 x 72"			131

ADDITIONAL PLATFORM TRUCK HANDLES			
MODEL NO.	HANDLE WIDTH	COMPATIBILITY	WT. (LBS.)
<a href="#">H-4972</a>	24" Handle	<a href="#">H-2666</a>	10
<a href="#">H-4973</a>	30" Handle	<a href="#">H-2667</a>	11
<a href="#">H-6709</a>	36" Handle	<a href="#">H-6708</a>	13

**This** information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



# Equipment Datasheet

Item Description:  
Cart, Medication, Anesthetist

Equipment Number:  
10.641.3

Possible Manufacturer  
-----  
Global Industrial  
-----  
Armstrong Medical  
-----

Model Number  
-----  
Anesthesia cart  
-----  
Anesthesia Cart  
-----

**Further Description:**  
  
A cart with multiple drawers , key lock  
Comes in different colors



**Specifications:**  
  
**Dimensions and weight:**  
  
W x D x H: 1050 x 670 x 1600 mm  
  
Weight:110 Kg

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



# Equipment Datasheet

Item Description:  
Cart, Difficult Airway Intubation

Equipment Number:  
10.641.5

Possible Manufacturer ----- Global Industrial ----- Medline -----	Model Number ----- Deluxe Difficult Airway Cart ----- -----
--	---

**Further Description:**

- A medical graded cart with multiple drawers , key lock



**Specifications:**

**Dimensions and weight:**  
*Difficult Airway Cart :*  
 W x D x H: 1020 x 670 x 1590 mm

*Difficult Airway Cart With Integrated Video System:*  
 W x D x H: 800 x 800 x1800 mm

Weight:100 Kg

**Electrical Requirements:**

120 V AC, 60 Hz

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



Item Description <b>Cart, Medication, Lockable</b>	Equipment Number <b>10-644</b>
---	-----------------------------------

Potential Manufacturer ----- <b>Global Medical</b> ----- <b>Harloff</b> ----- <b>Metro</b>	Model Number ----- <b>LMED</b> ----- <b>Med-Bin Cart</b> ----- <b>Lionville</b>
--	---

**Further Description:**

- Medication cart with optional pull out side shelf, unlocking keypad, and various optional card reader options
- Keypad-controlled Narcotic Drawers
- Lock Alert Automatic Relocking with a motion



**Specifications:**

**Dimensions and weight:**

Large: W x D x H: 1000 x 600 x 1050 mm  
Small: W x D x H: 600 x 600 x 1050 mm

Weight: 100 kg

**Electrical Requirements:**

120 VAC, 60 Hz

**Data Requirements:**

WIFI and data drop accessibility

**Design and Installation Notes:**

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



Item Description  
Cart, Crash

Equipment Number  
10-647

Potential Manufacturer	Model Number
-----	-----
Harloff	Emergency Crash Cart
-----	-----
Blue Bell Medical	Deluxe Crash Cart
-----	-----
Armstrong	A-Smart Crash Cart

**Further Description:**

- Medical graded cart equipped with the defibrillator, portable suction, optional IV pole, O2 tank, laryngoscope and other variable accessories depending on the clinical needs



**Specifications:**

**Dimensions and weight:**

W x D x H: 1000 x 800 x 1600  
Weight: 85 Kg (Cart only)

**Electrical Requirements:**

120 V AC, 60 Hz

**Design and Installation Notes:**

- Electrical outlet height must be at an arm reach without bending down

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



Item Description  
Cart, Crash, Broselow

Equipment Number  
10-647.1

Potential Manufacturer  
-----  
Intermetro  
-----  
Cardinal Health  
-----  
Armstrong Medical

Model Number  
-----  
Lifeline pediatric  
-----  
Classic Line, Nine Drawer  
-----  
Premier Aluminum Broselow

**Further Description:**

- Medical graded cart with full extension shelf closing drawers, top compartment first line medication storage, tilt-outside bins, a defibrillator swing arm and platform, and suction pump storage



**Specifications:**

**Dimensions and weight:**

W x D X H: (1050 x 600 x 1400) mm  
Weight: 80 Kg

**Electrical Requirements:**

120 V AC, 60 Hz

**Design and Installation Notes:**

- Electrical outlet height must be at an arm reach without bending down

This information is provided for planning purposes only and is not to be relied upon. Final installation specifications are dependent upon selected supplier's shop drawings.



## Equipment Datasheet

Item Description:  
Furniture, Clinical, Chair, Blood Drawing

Equipment Number:  
10-789

Potential Manufacturer

Model Number

-----  
Custom Comfort Medtek  
-----

-----  
HamiltonMedical  
-----

### Further Description:

- A patient chair with adjustable height blood draw arm rest

Medtek



Padded Phlebotomy Chair

Hamilton



### Specifications:

#### Dimensions and weight:

W x D x H: 890 x 690 x 1130 mm

### Design and Installation Notes:

This information is provided for planning purposes only and is not to be relied upon.  
Final installation specifications are dependent upon selected supplier's shop drawings.