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Make sure that the Ppeak low. Circuit breaker Outlet socket Serial port The system has a Universal Serial Bus (USB) port on the back of the display unit. 12-5 Carestation 620/650/650c (A1) 2. No battery backup Medium Battery or charging failure. Pressure displays On system display. See the "Alarm setup" section for information on the Alarm Setup menu. 2076152-001 5 Preoperative tests Preoperative tests In this section Vaporizer installation. If Confirm is not selected within 10 seconds, the system reverts to the screen showing before the On/Standby button was pushed. WARNING The Bag/Vent switch and the APL valve do not control the ACGO or any breathing circuit connected to the AGCO. If spirometry data is obtained from the airway module, make sure that the sensor type matches the type of airway adapter used. 3-6 Starting mechanical ventilation. Gas supplies Pipeline gases O2, Air, N2O Cylinder gases O2, Air, N2O (3 cylinder maximum) Cylinder connections Pin indexed Nut and gland DIN-477 Large cylinder kit available for O2 and N2O Primary regulator output pressure Pin indexed: The primary regulator is set to pressure less than 345 kPa (50 psi). This anesthesia system uses electronic flow valve ventilation technology offering Volume Control Ventilation with tidal volume compensation and electronic PEEP. Use only airway modules that have anesthetic agent monitoring and O2 monitoring on this system. See the "Setting graphical trends pages" section to continue setting up trends or select Back to return to the System Config. The MAC or MAC age value shows on several areas of the screen including the mini-trend, agent waveform numeric information, agent digit field, and graphical trends page. 11-4 2076152-001 11 Specifications and theory of operation Mixed gas The mixed gas goes from the flowmeter outlet through the vaporizer that is on, to the fresh gas outlet, and into the breathing system. ELDDes high Medium ELDDes is greater than alarm limit. Warnings tell about a condition that can cause injury to the operator or the patient. Case Defaults contain five case type selections. 11-7 Electrical power. 19. TV not achieved Low Measured tidal volume is less than set Check for leaks in the patient circuit. Scavenging extract flow problem. Wait for 'No insp flow sensor' and 'No exp flow sensor' alarms to occur. FISEv high Medium FISEv is greater than alarm limit. Select Cancel to leave the alarm limits unchanged. Does not include drawer contents or externally mounted accessories. Wait for alarms to clear. CAUTION WARNING No repair should ever be attempted by anyone not having experience in the repair of devices of this nature. For modes that use I:E, when transferring to a mode that uses Tinsp, the Tinsp is set to a calculation of I:E or 5 seconds whichever is lower. 3-30 Cardiac bypass. Low-pressure leak test fails The vaporizer is not correctly installed. The alarm tone is from 43 to 78 db(A) depending on the alarm volume setting. Spontaneous breaths that occur during this mode are indicated by a color change in the waveform. Regularly test the leakage current. The airway module

Do not have electrical or battery Confirm power cable is connected. -5-8 Circuit leak. System shutdown High in < 5 minutes Remaining battery power is between zero and five minutes. -11-38 Volume. Cooling fan needs service. A breath is defined as a change in the CO2 signal that exceeds 1% (8 mmHg). The vaporizer filler port cap is loose... (The text continues with a dense list of technical specifications, safety warnings, and operational instructions for the ventilator system, covering topics like power, alarms, flow, pressure, and maintenance.)

Trigger 2 2 2 Pspurt 2 2 2 2 End of Reach 30 30 30 30 . If liquids come in contact with the display, lock the touchscreen and clean the display. Several settings can be changed in Super User mode. Continuous operation, Surge IEC 61000-4-5 +1 -1 kV line(s) to line(s) +/- 1 kV line(s) to earth +/- 1 kV differential Modes power quality ...

Alarm. Canister handle. Canister handle. Canister handle. Canister handle. Absorbent Disposable absorber. Canister handle. Reusable absorber. Canister handle. Maximum absorbent capacity level. Figure 8-2 • Canister 8-6 2076152-001 8 Setup and connections WARNING Obey applicable safety precautions: • Do not use the absorber with chloroform or trichloroethene. Flush the system with O2. Immediately discard the absorbent if it has changed color. 7-15 Breathing system problems. • Squeeze the bulb repeatedly until it is empty. If the device is colder or warmer than the specified operating temperature, or if condensed water is visible or suspected, let the temperature stabilize before use. Using flow controls the flow controls regulate the amount of gas flow to the breathing circuit. An apnea backup mode is provided if the patient stops breathing. Agent Shows Agent cost and flow information. 3-20 Setting CO2 alarms. 12. Check for leaks or blockages in the patient circuit. The ACGO may be used to provide fresh gas to an auxiliary manual breathing circuit. • 2076152-001 Capacity to operate for 90 minutes under typical operating conditions and 30 minutes under extreme conditions, and then Parameter Settings. See the "Super user mode" section for more information. When O2 flow is displayed as lpm, there may a residual O2 flow of 25 to 125 ml per min. The mains indicator comes on when AC power is connected. Use ventilator quick keys and More Settings to change ventilator settings. 7-17 Electrical problems. • Route all tubing away from the patient's throat. ecoFLOW theory of operation The ecoFLOW option provides a split screen view that shows the approximate minimum O2 flow to maintain a preset FIO2 value. • Do not continue until the operational indicator turns on. 8-24 Active AGSS. The table shows the factory default settings for each trend page. Default settings for Trends on each Page Page 1 Page 2 Page 3 Page 4 Page 5 Top Pres O2 AA2 Bal RR + CO2 Middle TVExp N2O N2O MAC Compl Bottom CO2 AA1 MAC MVexp Off 1. If more than 12 alarms have occurred, the oldest alarms are deleted as new ones are logged. Select the minus symbol to graphically display the expiratory flow as a positive value. The electrical outlet is damaged. Monthly O2 cell calibration Monthly O2 cell calibration will calibrate the O2 cell to 100% O2, through exposure to 100% O2 supply. Agent flow The measured value of the liquid agent flow from the vaporizer. When selected a clock will display counting up from zero. Touch the value on the touchscreen or push the ComWheel to confirm the desired setting. 58. menu. These changes should only be made by the person responsible for the configuration of the system. Individual tests allow the user to perform any combination of single tests. • Make sure the plunger pin is locked into the device interface and the thumb screws are fully tightened. The color of the alarm text shows when the alarm message fields is dependent on the alarm priority. If the patient fails to make an inspiratory effort during the trigger window time interval, the ventilator will deliver a machine breath to the patient. • Keep the electrosurgeal leads away from the breathing system, the flow sensors, and the oxygen cell. This manual does not cover the operation of every accessory, and not all accessories and options are included with every system. The mains indicator is lit when AC power is connected. Select Close to exit the menu. Changing ventilator settings Change the ventilator settings for the ventilation mode when a case is running. 2076152-001 To clean and disinfect the canister, refer to "Automated washer" in the "Cleaning and sterilization" manual. Although not displayed, the ventilator measurements continue and if a measured value violates an alarm setting, the appropriate alarm occurs. They may burn or explode in high O2 concentrations. Battery information The system is not a portable unit. Emissions test Compliance Electromagnetic environment guidance RF emissions CISPR 11 Group 1 The system uses RF energy only for its internal function. The flush valve supplies high flows (between 25 and 75 l/min) of O2 to the fresh gas outlet when the O2 flush button is pushed. 7-4 Informational tones. Remove blockage. 8-22 Installing cylinders with pin indexed yokes. The touchscreen has numerous touch point areas that make accessing menus and settings quick and easy. 1-19 Electrical safety. 3-16 Patient demographics. Observe the cylinder pressure. 2076152-001 5-9 Carestation 620/650/650c (A1) Vaporizer back pressure test WARNING Anesthetic agent comes out of the circuit during this test. Connect the leak test device to the ACGO outlet. The screen is blank. The Alarm Setup menu displays. • • Notification tone is a medium pitched tone that sounds for approximately 480 milliseconds. Volume and flow measurements come from flow sensors in the breathing system. Check for blockage in the airway module sample gas line. 7 6 5 4 3 1 0 0 10 20 30 40 50 AC24.173 2 Figure 11-3. • The lower dovetail load in kg (vertical) versus load distance from the lower dovetail in cm (horizontal). 3-37 Auxiliary O2+Air. 7-10 Low 2076152-001 7 Alarms and troubleshooting Message Priority Cause Action Turn power Off and On for self tests Low System has been operating for longer than 12 hours without a power-up self test. Use the System Config. Check that an adequate reserve O2 supply is available. 2076152-001 2-15 Carestation 620/650/650c (A1) 10. 8-2 Moving and transporting the system. Select Name. This equipment must be connected to a supply mains with a protective earth to avoid the risk of electric shock. The clock format factory default is 24 hours. Set Show PEEP on Exit to Yes to show this menu item on the user's Vital Capacity menu. Always flush the system with O2 after the vaporizer back pressure test (1 l/min for at least one minute). 8-19 Alarm setup. The foregoing warranties shall not apply if the Product has been repaired other than by the manufacturer, or altered by anyone other than the manufacturer, or if the Product has been subject to abuse, misuse, negligence, or accident. 1-17 Not integral system components. 1-20 2 System controls and menu System overview. Page 4 Default settings for default case types Settings ADULT PEDIATRIC LOCAL CUSTOM 1 Backup Time 30 30 30 Rise Rate Auto Auto Auto Rise Rate 5 5 5 5 PSV Rise Rate Auto Auto Auto Exit Backup 2 2 2 2. Select Save to save the name and close the drop-down list. • Do not use cell phones near the anesthesia system. 11-41 Cables. General information This anesthesia system is designed for expansion and upgrades, so it is easy to add new technologies and ventilation capabilities without investing in a new system. Select System Setup - Screen Setup - More Settings or Spirometry - Setup Loops. Circuit Compliance must be set by the Super user for the Circuit Compliance compensation function to be active. A fourth pipeline inlet is available for a secondary, backup lowpressure O2 supply connection. Select the ventilation setting to be adjusted. This is the minimum O2 flow needed to deliver a preset inspired O2 concentration. 11-39 Ventilator accuracy data. 6-6 Connecting the Pedi-lite and D-lite sensors. The proposed low and high alarm limits are shown in highlighted text. Make sure that the arm and shelf remain in position while moving the system. Fresh gas flows through the ACGO port. See "Device standards IEC 60601-1:2005" and "Integral system components" for information regarding monitoring built into this device. 11-6 Electrical block diagram. Using Pause Gas Flow while the breathing circuit is disconnected prevents the flow of gas into the room. Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. If the spontaneous inspiratory effort does occur within the delay period, the ventilator delivers pressure controlled breaths with the preset inspiratory pressure to bring the breath rate up to the minimum rate. 4-3 Carestation 620/650/650c (A1) Before every patient Note This check does not need to be done before the first case of the day if the "Every day before your first patient" checklist was done. Minimum Alveolar Concentration The Minimum Alveolar Concentration (MAC) concept is based on the assumption that in a steady state condition, the alveolar partial pressure of a gas is equal to the partial pressure in the effector organ of the central nervous system. Internal failure Internal problem prevents normal operation. shows on the display during a software or hardware failure that requires service. Perform periodic calibrations using an accurate and properly calibrated O2 monitor as recommended in the "Circuit O2 cell" procedure in the "User maintenance" section. Push the latch handle down until it is flush with the canister cover. • All gases supplied to the system must be medical grade. 8-24 2076152-001 8 Setup and connections Active AGSS WARNING To avoid possible exposure to anesthetic agent, always verify the proper operation of any gas scavenging system. Anesthetic agent monitors ISO 21647. If this message occurs, contact an authorized service representative. Set the desired value. Alarms in the apnea alarm family have special silence behavior to reduce apnea nuisance alarms. 8-21 Installing gas cylinders. Touchscreen 2-12 Activates functions when touch areas on the screen are selected. Refer to the Technical Reference manual for service information including: special installation instructions, installation checklist, means of isolating the supply mains, and replacement of fuses, supply power cord, and other parts. See the "Preoperative tests" section for information on the Checkout menu item. Areas of the screen can be customized to show specific information. Set the ventilator to VCV mode and the settings for TV to 400 ml, RR to 12, IE to 12. Tpause to Off, and Pmax to 40 cmH2O. 10-5 11 Specifications and theory of operation System pneumatic circuits. 2076152-001 3 Operation Auxiliary Common Gas Outlet Use the optional Auxiliary Common Gas Outlet (ACGO) switch to direct the fresh gas flow through the ACGO port on the front of the system. Optional ventilator procedures See "Procedures" for more information on Vital Capacity and Cycling procedures, and then Pages Setup. Turn all flow controls fully clockwise for minimal flow. Circuity > 75C. High O2 limit may not be set below the low O2 limit. AC outlets Carestation 620 A1 Carestation 650 A1 Carestation 650c A1 3 AC outlets Optional Optional Not available AC isolation transformer Optional Optional Not available. To access the Super User mode, select System Setup and then Super User. Up to seven preset steps with multiple breaths are available. 2-13 Measured value touch points. Figure 2-14 • ACGO typical full view 2-18 2076152-001 2 System controls and menus 2076152-001 Note View and change ventilator parameters when in ACGO mode. If problem persists, replace flow sensors. Default settings for Page view setup Page 1 Page 2 Page 3 Page 4 Top Paw Paw Paw Paw Off Middle Flow Flow Off Bottom CO2 CO2 CO2 Left Loops/Off Off Loops/Off Off Middle Left Resp Resp Flow Off Middle Right Agent Agent Agent Off Right Gases Gases Gases Gases Split Screen Paw Spiro/None Paw None 1. Close the cylinder valve on the cylinder to be replaced. • Do not use this anesthesia system if more than one vaporizer can be turned on at the same time. Software features Carestation 620 A1 Carestation 650 A1 Carestation 650c A1 VCV Included Included Included Agent Agent Agent Vent modes Some optional All optional All optional Spirometry Optional Included Included VCV cardiac bypass Optional Optional Optional Auto alarm limits Not available Included Included EcoFlow Not available Optional Optional Pause gas Not available Optional Optional Cycling Not available Optional Optional Vital capacity Not available Optional Optional 2076152-001 11-7 Carestation 620/650/650c (A1) Symbols used in the manual or on the equipment Symbols replace words on the equipment, on the display, or in product manuals. 11-4 NZO flow. 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