

3m 5xl sterilizer service manual



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Do not incinerate cartridges. Immediately call 3M Health Care service personnel or authorized 3M service personnel if there is a failure of the display or backlight and the GS Series sterilizer continues to operate. To arrange installation, contact your local 3M subsidiary www.3m.com. Location Do not place the sterilizer or ethylene oxide EO cartridges in an area of possible ignition sources. Table 2 contains additional details regarding specific components and connections for the GS Series Models GS5 and GS8. Air inlet is for the connection of the compressed air supply per Chapter 9 and is intended for use only by trained 3M Health Care Air Inlet service personnel or 3M authorized service personnel. A fingertip, stylus, ball tip pen or a computer mouse can be safely used to navigate the touch screens. The desired format can be selected in the Cycle Report options screen Figure 11. The Site Setup Report contains the site settings established in the Site Setup menu. Figure 15 is the display screen view of the Site Setup Report. This cycle cannot sterilize devices. Site setup is specific for the GS Series sterilizer. The User setup is specific for Operators and Supervisors. Figure 20 illustrates the button to access the Site Setup options. When enabled, system will produce an audible tone upon cycle failure. The audible Audible tone on notification will sound at a pulsed rate of two 2 seconds on, one 1 second off, for total of. Press the minimum aeration time and an iWheel will appear to adjust the minimum aeration default time. Figure 23 illustrates changing the minimum aeration default time. Supervisors can then set up additional Supervisors. Only Service can set up additional Service users. Figures 28 31 illustrate the use of the User Setup Menu. The Log is not saved and is overwritten as new data information appears. Thorough cleaning is essential to achieve sterilization efficacy.

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The definition of a lumen as noted in the cleared Intended Use statement, is an opening or pathway into a medical device. Lumens have several configurations. A lumen may have only 1 opening into the device that serves as both the entrance and exit for sterilant penetration and contact. Before packaging, ensure that the medical devices are clean and dry per manufacturer's instructions for use. 11.2.1. Packaging Endoscopes for EO Sterilization Each facility should verify appropriate packaging materials and procedures with the endoscope manufacturers to ensure the endoscopes

are suitably packaged for sterilization i.e., endoscope. A fingertip, stylus, ball tip pen or a computer mouse can be safely used to navigate the touch screens. To use a computer mouse, simply plug the mouse into one of the two USB ports reference Figures 6 and 7 and the mouse arrow will appear on the touch screen. There are seven 7 programming steps to start a cycle. Aeration times can be set in intervals of 30 minutes. The barcode is a small square, located on the top of the cartridge, in the area of the black stripe. See Figure 39 for an example display message of an invalid gas cartridge. Reference the Site Setup Preferences menu Figure 21. Push the green lever down over the SteriGas EO Gas Cartridge to secure in place Figure 43. SteriGas EO Gas Cartridge in Cartridge Bay Figure 43. Green Lever Securing SteriGas EO Gas Cartridge Insert the load into the GS Series sterilizer chamber. Close the sterilizer door by gently pressing the door to the chamber seal. The sterilizer will engage a physical latch to secure and lock the door. The display screen will automatically advance to the Operator ID screen. The Operator ID can be a combination up to 20 characters. Caps lock can be activated by double tapping the shift up arrow button. Touch the white data entry field to activate the keyboard then enter the Load ID Figures 44 and 45.

See Chapter 15 Cautions, Error Messages and Troubleshooting for specific errors and corrections. After the sterilization cycle is complete, an aeration cycle is required to remove any residual EO from the medical devices per the manufacturers' instructions for use IFUs. There are three options for assembling a cycle report Graph, Table and Detailed. Table 5 explains the sections included in each cycle report option. Header Graph Table. This cycle cannot sterilize devices. The cycle time for a Cartridge Dispose cycle is estimated. Adding the GS Series sterilizer to a LAN allows the ability for 3M Health Care service personnel or authorized 3M service personnel to map to readonly, shared network folders on the sterilizer from a client workstation within the LAN to access diagnostic information. Always take action for errors as indicated in this manual. Operators should not service the sterilizer as there are no user serviceable parts. The display will return to the main screen. Aeration timing will be interrupted if the door is opened. After aeration is complete, remove the cartridge from the holder and dispose of the cartridge in a nonincinerated waste receptacle or recycle the cartridge per your facility's requirement. Reference the appropriate Safety Data Sheet SDS for decontamination procedures. Additionally, an optional audible notification will accompany the error message if the audible notification option is enabled. Errors that occur during an Service must access load and clear error. Press this button to acknowledge and clear the error. Some errors must be cleared by 3M Health Care service personnel or Error Clear Button authorized 3M service personnel with a Service PIN. For servicing information or warranty claims in the U.S., contact the local 3M Service Representative or the 3M Health Care Service Center at the following address 3M Health Care Service Center. Additional baskets are available for purchase.

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necessary machine service requirements to the area where the sterilizer will be installed. These services consist of electricity, compressed air, and vent line. A dedicated exhaust system is required for installation with the local exhaust hood option. Filters are provided for precautionary purposes only, and not as a replacement for a clean air supply. A contaminated air supply can quickly reduce the effectiveness of the filter element, resulting in early machine failure and possible ethylene oxide exposure to the operator. CAUTION Connect the hood to a dedicated exhaust system. Do not connect the hood to an exhaust system that recirculates air into the building. Notice Only health care professionals or other appropriately trained personnel in health care and industrial use areas should use this equipment.

Injury to persons or property can result unless the operating instructions are followed carefully. Because of varying local codes and labor policies, it is also the responsibility of the purchaser to install the machine in its permanent location and to connect the services to the machine. For example, the state of California requires that seismic bracing be provided on the sterilizer. Obtain all state and local regulations affecting the use of ethylene oxide EO. A carefully planned and prepared site allows for a smooth, troublefree installation. A prepared site also helps ensure that the sterilizer and related equipment operate correctly. Please take time to carefully plan and prepare the site before the installation date. Several critical service requirements must be met before the 3M system checkout can be performed. These requirements include room ventilation and connections to electrical power, vent lines, and compressed air lines. Service requirements are explained in greater detail in Step 3 Prepare the Area. Several critical planning and coordinating tasks must be performed to plan, prepare for, and coordinate a successful installation. While each installation site is unique, the following critical tasks are common to all situations. Step 1 Select the equipment Step 2 Select a location Step 3 Prepare the area Step 4 Install the equipment The objective of this guide is to provide increasingly detailed information as planning progresses to installation. Site Layout and Equipment Location Worksheet Typically, the customer is responsible for securing and scheduling these contracted services, and for supplying copies of the service requirements to the contractors. However, 3M does offer complete turnkey installations as an optional service. The equipment checkout cannot be scheduled until all equipment installation requirements have been met by the customer and verified by 3M personnel during the final preinstallation visit.

Services Specification Sheets The summary pages for service requirements and the Site Layout and Equipment Location Worksheets can be reproduced to provide service contractors with the information necessary for completing the preinstallation work. Deviations from the Site Plan The customer should document any deviations from the site plan, and communicate the information to the 3M Health Care service representative. Step 2 of the Site Planning and Installation process provides the recommended process for analyzing a site and selecting a suitable location where the system can be installed. This step also contains samples showing how to sketch the architectural details of a proposed site and how to sketch the proposed location of the equipment within the site. This list will be useful in summarizing installation needs. Ethylene oxide is flammable and toxic The location is wellventilated with at least 10 air changes per hour. The flow of air is away from the equipment operator see Figure 3. Recommended room size is 30 m³ 1,000 ft³. Place the sterilizer in an area that is greater than 30 m³ 1,000 ft³ and that has a minimum of 10 air changes per hour. Do not place the sterilizer or ethylene oxide EO cartridges in an area of possible ignition sources. The location has a nonrecirculating ventilation system. If a local exhaust hood is used, it must be connected to an exhaust system that is dedicated to the sterilizer area. The location allows 51 cm 20 inches of clearance space at the top and sides of the sterilizer for maintenance and service see Figure 5. DANGER The selected location must meet all of the following requirements. No flammable gases other than ethylene oxide are present at the location. The location is not a high traffic area. Include all details, such as walls, doorways, structural supports, ventilation ducts intake and exhaust, and electrical outlets see Figure 4. Indicate any equipment that will be removed.

A blank worksheet is provided at the back of this manual. If desired, the worksheet and equipment templates can be photocopied and cut out for use in planning the equipment placement. The proposed location and planning sketches will be reviewed with the customer and the customers' engineers to discuss the required services, equipment spacing, and other considerations. Additional services may be needed for other equipment installed to support the sterilizer equipment. Consider whether the following equipment will also be needed. Contact the supplier of the additional equipment for the installation and service requirements. The following pages provide detailed information for contractors installing the services required to run the 3M SteriVac equipment. The pages are laid out so that they can be easily photocopied and sent to contractors. These pages, along with the worksheets you made to show the area before and after installation of the equipment, should give the contractor a good understanding of the job. Figure 13 page 21 shows typical service connections at the sterilizer. If voltage drops below this level, a step up transformer is required. No starting surge is required for the sterilizers. 2 Power cords furnished with equipment to be used outside the USA will meet electrical requirements of that location. UL standard requires the 4XL, 5XL, 8XL to have a hospital grade power cord plug so it will plug into a hospital grade receptacle. Install conductors, conduit, boxes, receptacles, connectors and accessories required for each circuit. GS Geprüfte Sicherheit German Device Safety Compliance. The vacuum operates during the sterilization cycle to remove air and ethylene oxide from the sterilizer chamber. The vacuum also operates during the aeration phase which may last in excess of 12 hours.

Compressor System The following recommended compressor manufacturers can provide additional information Powerex Champion 18005440350 18158753321 Air Dryer Moisture in the compressed air line will not be removed by the filter supplied. A refrigerated air dryer may be needed to meet the dewpoint requirement. It should be a noncycling hermetic type compatible with the flow and pressure of the compressor selected. It would typically have an automatic drain trap and be wired from the compressor controller. The following air dryers are examples that may be used Norgren D10 Series or Arrow A10. Filters 3M supplies an air filter assembly with each sterilizer to remove dirt particles from the incoming air. This filter must be installed on the compressed air line at the time of installation. This filter must be drained periodically to remove excess water. Install the mist separator in front of the micromist separator to remove coarse air contaminants that would otherwise plug the micromist element. Replace the mist separator at least every 6 months and the micromist separator at least every 12 months. Change the elements more frequently if the air supply is highly contaminated. Filters are provided for precautionary purposes only, and not as a replacement for a clean air supply. A contaminated air supply can quickly reduce the effectiveness of the filter element, resulting in early machine failure and possible ethylene oxide exposure to the operator. Locate the compressor away from work areas to reduce noise levels around the sterilizer. Multiple sterilizers can be vented through a common vent line see the following table. Use hard drawn copper tube. Make sure the vent system is constructed of straight lengths of copper tube using a minimum number of long radius elbows. If two sterilizers are to be connected to a common vent system, use a Y fitting. Short radius elbows and T fittings cause an excessive amount of back pressure.

Add a threaded fitting to termination of run to facilitate pressure test of system. Avoid sags or loops in the vent line to prevent moisture buildup at other points in the line. Ensure that the vent line is gas tight from the sterilizer to the outside atmosphere. Braze or solder vent line in accordance with local fire codes. Keep the vent line, with the exception of a turneddown extension terminating on the roof top or exterior wall, inside the building. This is to prevent moisture from freezing in the line and blocking the vent see Figure 8 and 9. **DANGER** The vent line contains significant amounts of EO during the final purge phase. Do not terminate the vent line within 7.6 m 25 ft of any possible source of ignition or any opening to the building interior such as fresh air inlets, unsealed windows, or pedestrian traffic areas. Vent Line Installation Install inlet assembly from Vent Line Installation Kit

within three feet of sterilizer's ethylene oxide port in a position accessible to service personnel see Figure 7. For multiple sterilizer installations use a Y fitting to connect the two sterilizer vent lines to a single vent line. The Y fitting reduces the back pressure caused when two machines tie into one vent line. Run the single vent line directly to exterior or to an abator. Make connection at abator using appropriate fittings. The optional local exhaust hood can be installed in the top panel of the sterilizer. This allows the operator quicker access to the materials being aerated. The hood removes residual ethylene oxide gas EO from the sterilizer chamber after the sterilization cycle when the door is in the latched position. The hood must be connected to a dedicated exhaust system supplied by the customer. At the end of the sterilization cycle, the operator opens the sterilizer door to a latched position.

While in this position, air is drawn upward from the bottom of the sterilizer door through the hood to the outside or to an emission control system via the exhaust duct see Figure 10. The air stream pulls EO molecules from the front of the sterilizer chamber. Units without the local exhaust hood have a mandatory threehour aeration after the sterilization cycle before the door unlocks. Take into consideration that each elbow introduces losses in air flow. Calculate the total air flow required for each branch. Calculate the static pressure for the entire system using standard industrial ventilation techniques, and add a 10% safety factor to the air flow and the static pressure. Select an exhaust fan to meet these requirements. Determine if a new exhaust system is needed or if an existing system can be used. If an existing system will be used, make sure the existing system meets the sterilizer equipment specifications. The diagrams in Figures 12, 13, and 14 show several installation possibilities. CAUTION Connect the hood to a dedicated exhaust system. Do not connect the hood to an exhaust system that recirculates air into the building. Exhaust Ventilation System Specifications The following ventilation system requirements should be met to ensure maximum air movement through the hood. Minimum static 0.15 cm 0.06 in of water pressure at the static pressure port. Measure the static pressure when the sterilizer door is in the open latched position. Hood connection 102 mm 4 in outside diameter. Ductwork Use metallic ductwork rated to handle the highest pressure that the system delivers. Use a minimal amount of flexible, airtight duct. Flexible duct can introduce significant air flow resistance. Use a larger diameter flexible duct to minimize frictional air drag loss. Minimize the number of elbows to reduce the static pressure loss in the system. Seal duct seams and joints with aluminum duct tape or sealant to prevent leaks.

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