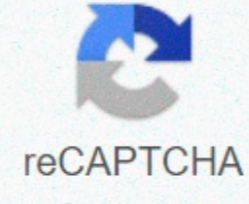




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Kendall kangaroo epump service manual

1 Table of Contents 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 The entry supply pump™ ePump is an easy-to-use precision input power pump. It is easily programmed to provide continuous or intermittent feeding and can provide automatic flushing when used in conjunction with Kangaroo™ ePump Enteral Feeding Pump feed and flush kits. Attitude Independent - Pump kit drop chamber is eliminated, which facilitates the difficulty of keeping the pump upright and is ideal for hospital, home care, nursing home and outpatient use 72 Hour History-Kangaroo ePump™ enteral feeding pump gives the clinician the ability to accurately track the amount of formula and liquid received by the patient providing the prescribed formula and liquid received by the patient dehp-free pump kits Anti Free-Flow Pump Kits ATM-Style Interface Smart Technology Identifies Pump Kit and Allows Programming Only For This Type of Pump In Auto-Priming: 30 SecondsBattery Life: 15 hoursAccuracy: +/- 1 %Flow Rate: 1-400 ml/h 1 Table of contents 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 E-mail pump 39 30 31 31 34 35 37 38 39 40 41 42 Delivery pump Kangaroo™ ePump is easy to use , precise wealing power pump. It is easily programmed to provide continuous or intermittent feeding and can provide automatic flushing when used in conjunction with Kangaroo™ ePump Enteral Feeding Pump feed and flush kits. Attitude Independent - Pump kit drop chamber is eliminated, which facilitates the difficulty of keeping the pump upright and is ideal for hospital, home care, nursing home and outpatient use 72 Hour History-Kangaroo ePump™ enteral feeding pump gives the clinician the ability to accurately track the amount of formula and liquid supplied to the patient providing the prescribed formula and liquid received by the patient dehp-free pump Sets Anti Free-Flow Pump Sets ATM-Style Interface Smart Technology Identifies Pump Set and Allows Programming Only For This Type of Pump, Auto-Priming: 30 SecondsBattery Life: 15 hoursAccuracy: +/- 10% Flow rate: 1-400 ml/h 1 Table of contents 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 2 2 3 24 25 26 27 28 29 30 31 32 34 34 36 37 38 39 40 41 42 This website or its third-party tools are used for cookies necessary for the operation and are necessary to achieve the objectives shown in the cookie policy. 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KENDALLKANGAROO JOEY™Enteral power pumpAction and maintenance manualEnteral power pump – and maintenance manualNutripompe manualNutripompe Manuel d'utilisation et d'entretienPumpe für die enterale Ernährung — Benutzer- und Service-HandbuchPompa di alimentazione enterale — Manuale operativo e di manutenzioneBomba para alimentación enteral — Manual de operación y servicioEnteral matningspumpe — Användar- och servicemanualEnterale voedingspomp — Gebruiks- en onderhoudshandleidingBomba de alimentação entérica — Manual de funcionamento e assistênciaEnteraalinen ravitsemuspumppu — Käyttö- ja huolto-oppasPumpe til enteral ernæring — Betjenings- og servicehåndbogΑντλία εντερικής σίτισης — Εγχειρίδιο λειτουργίας και συντήρησηςPumpa pro enterální výživu — Provozní a servisní příručkaEnterális táplálópumpa — Kezelési és karbantartási kézikönyvНасос для энтерального питания — Руководство по эксплуатации и техническому обслуживаниюPompa żywienia dojelitowego — Instrukcja obsługi i serwisowaniaEnteral Besleme Pompası — Kullanım ve Servis KilavuzuEnteral ernæringspumpe — Bruker- og vedlikeholdshåndbok™Rx0123ONLY™ Trademark of Tyco Healthcare Group LP or its affiliate.™SPRAYNINE is a trademark of SprayNine Corporation.™PHISOHEX is a trademark of The Mentholatum Company.™HIBICLENS is a trademark of Regent Medical Limited.™VESTA-SYDE is a trademark of Steris Inc.TYCO HEALTHCARE GROUP LP • 15 HAMPSHIRE STREET • MANSFIELD , MA 02048 • RAŽŪTS ASV • © 2008 TYCO HEALTHCARE GROUP LPALL RIGHTS RESERVED • 080516 • PRODUKTA INFORMĀCIJA ASV. 1-800-962-9888 • www.tycohealthcare.comTYCO HEALTHCARE U.K. LTD • GOSPORT PO13 0AS, U.K.182545EngillázijsTák jús iegādāties KANGAROO JOEY™ Enteral Feeding Pump.With pienācīgu aprūpi, šī ierīce nodrošinās Jūs ar gadiem precizitātes pakalpojumu. 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Continuous Power mode . 14 Rinse the account mode . 14Ascator (Adjust Bolus) . 15On a world mode feed . 15 Nourishing Intermittent Mode – Bolus Max. 16Areize mode rinsing . 16 Execution . 17KTO . . 18Lock function . 18 Holding . 19 – Now . . 20 More options The alarm volume . 20. 20 Language selection . 21Constc/intermittent mode . 21BioTech menu . 21 Available for BioTech screen . 21Biotechnical screen data . . 21Biotechnical capabilities . 22Lock settings (application blocked) . 22E Pump mode . Section 22VI - Performance certificationSystem performance re-certification . 23 Determination of pump flow rate accuracy . . Section VII - Cleaning . 24Seal - Replacing batteries . . 25KANGAROO Feed pumpStati - Error/Warning/Informative screens and troubleshootingSystem error . 27Turn 27KN/ 2009 . 28Earrated error . 28 Error . . 29Flow Error . . 29Pump Set Dislodged Error . 29 Low . 30Feed Complete . 30Pump Set Use &t;24 Hours Warning . 30Led Array . Section 31S Title X — Specifications and symbolsSpecifications . 32Symbols on pump and accessories . Section 35 XI — Customer Service Section 36 – Maintenance Door Removal Pump Set Loading Area . . 36 Rights Pack . 37Syvenable doors . 37 Power cord . 37 . 37Conties XIII - Service part numbers . 38 Title XIV — Warranty . 39Section XV - Declaration of Electromagnetic Conformity . 40Section XVI - AccuSystem/ . 41 This product contains software that is owned solely by Tyco. Tyco grants the user a non-exclusive, limited license to use the software in accordance with the instructions for use. A copy of the license can be obtained from Tyco.KANGAROO JOEY™Invading pumpScalinsis I – General information KANGAROO JOEY entry power pump is an easy-to-use, accurate input power pump. It is easily programmed to provide patients with continuous or intermittent feeding and can provide automatic flushing when used in conjunction with KANGAROOePump™ Feed & Flush Sets.User Interface• Intuitive user interface• Large, selected LCD display• Step-by-step offer to guide programming and operation• Stoplight LED array visually indicates pump status in bright or dark roomErgonomics• Quiet operation• Compact, portable aesthetic design • Table use or IV pole assembly pump kit• Transparent upper door for pump kit protection• Waterproof• Soft Touch rubberized housing for easy grip and drop protection• Quick Release pole clamp for easy pump deaging• MISTIC (magnetic intelligent type identification connector) Feed-Only vs. The system for setting the supply and flushing to ensure selection between the pump user interface and the pump setting type• Automatic flow-off flow (AFF) system• Sound alarms indicating errors or loading conditions set by the pump• The orientation independent supply design eliminates the need for a drip camera pump installed• Sensor technology detects both upstream and downstream flow conditions• intermittent feed, and flush capabilities • Auto-prime feature reduces the need for time-consuming manual priming • Hold feature with restart • Keep Tube Open (CTO) feature • Stored in previous 72-hour feeding and rinsing history• 15 languages • All sets that run kangaroo ePump Enteral Feeding Pump will also work kangaroo JOEY Enteral Feeding Pump PumpOGAROEY™1Enteral FeedingServiceService will also work kangaroo JOEY Enteral Feeding Pump .• Serial I/O port for data retrieval and software updates• uses replaceable , rechargeable li-ion battery 18-hour backup power • Easy-to-remove power cordStatus LineMenuSelectionsStatus LEDsInput SettingsMenuSelectionButtonsOutput TotalsPower ButtonPower ButtonGraphicGraphicDisplayFrontBattery StatusDoorBuzzer Alarm HoleLocationA /C Adapter PortPole ClampAttachment PointBattery Door (Serial I/O Port isBEDHIN Battery Door)BackFiFe 1Agure. KANGAROO JOEY à input power pump features front and rear view. KANGAROO JOEY™2Exc fy feed pumpFFEJOH4FU-PBEJOHSFBFfigure 1B. Section II – Safety and warningsS viewing: U.S. federal law restricts the sale of this device to doctors or their direct representatives.1. Read this booklet carefully before using KANGAROO JOEY Enteral Feeding Pump.2. Do not use this device near flammable anaesthetic objects.3. Disconnect the power supply before cleaning or maintenance.4. KANGAROO JOEY The incoming power pump uses two branches, a medical-grade power cord specifically designed for use only with the KANGAROO JOEY power pump lithium-ion battery charging scheme. Using an alternative consumption-style power cord or DC caradapter can cause damage to the KANGAROO JOEY power pump charging circuit and battery. Use only the supplied device adapter to charge the KANGAROO JOEY power pump from the AC power supply. Use only kangaroo joey enteral feeding pumppower cord (with built-in A/C adapter) with pump. See Section XIII - Service part numbers for the replacement of the cord.5. Use only kangaroo ePump enteral power pump kits with this device. The pump is not compatible with other pump kits.6. For re-certification see Section VI - - For other integrity checks, consult a qualified BiomedicalTechnician or contact the manufacturer (Section XI - Customer Service).7. For service or technical information, please contact customer service (Section XI).8. Do not open the main housing, as there are no user-service parts inside. Opening may affect the operation of the device and void the warranty. To replace the battery, see section VIII.9. Dispose of old electronic battery-powered equipment in a manner consistent with the institutional policy for the disposal of expired equipment.10. The frequency and practice of cleaning should be consistent with the institutional policy for cleaning non-sterile devices. For instructions on kangaroo joey enteral feeding pump cleaning instructions, see Section VII. For more information about additional security information, see section III Icon identification and section X Specifications and symbols Specifications and symbols.12. This device is intended to reduce the impact of uncontrolled electromagnetic interference and other interference from external sources. Do not use other equipment that may cause unusual operation or performance of this device.13. WARNING: Serial i/o access (see Figure 1A) is for manufacturer only. Any auxiliary equipment that can be connected to a serial I/O port and which does not meet equivalent safety requirementsKANGAROO JOEY™3This equipment power pump may reduce the pump safety level. Although the use of serial connection of the pump is not recommended for the client, if the customer decides to connect to this port, it should be taken into account: since the accessory safety certification has been carried out in accordance with the relevant harmonised standard for IEC 60601-1 and/or IEC 60601-1-1. • In no case may the certified accessory be connected to the i/o port until the pump is used to feed the patient.14. CAUTION: This lock-in pump should only be used by patients who can tolerate the flow rate and level of accuracy provided by the website. Premature infants may require a higher level of accuracy than that indicated for this enteral feeding pump. For optimal accuracy, the starting volume of the formula should be 6 inches above the pump, do not use the power supply kits, or avoid exaggeration of silicone wrapped around the pump rotor.15. Do not attempt to rotate the valve foot inside the feeder housing. The rotation of the valve foot can only be done with the pump until the valve assembly is correctly inserted into the pumps.16. If rinsing is required for power supplies, it is recommended to rinse the power packs while they are loaded into the pump.17. KANGAROO JOEY entry power pump is to optimise accuracy, taking into account the viscosity of the formula. A formula that has been diluted and has a low viscosity will normally be supplied as water and then deliver the highest half of the accuracy specification.18. CAUTION: During normal operation, the whistle is free to be able to clearly recognize the alarm.19. CAUTION: Battery cells used in this device may cause fire or chemical hazard if mistreated. Do not fuss, heat over 100°C (212°F) or incinerated. Section III – Icon IdentificationRun ModeVertically moves the drip run on the flake screen indicating Runmode. Battery symbols• Full charge• 2/3 or less charge• 1/3 or less charge• Very low battery (15 minutes max. Auto priming indicator)Has the car priming, the bar will progress to show the auto prime function is active. Set the volume The alarm volume setting. IndicatorPump errors are stopped until the error is resolved. KANGAROO JOEY™4Exerivisible supply pump information indicatorThis indicates only the information and does not require immediate action. The EZ pump mode indicatorsob that the EZ pump mode feature is activated. Communication indicatorSuses the communication feature is activated. Deliverable volume IndicatorIndi indicates that VTBD is programmed. Keep Tube OpenIndicates that Keep Tube Open feature is operation. Section IV — Initial installationAusing the A/C adapter to the power cord, disconnect the power cord at the A/C adapter port on the back of the pump. See Figure 1A to find the pump. NOTE: It is important to make sure that the plug is pushed all the way to the pump for proper operation. If the display shows that the pump is running on battery power after connecting the A/C adapter, check that the A/C adapter plug is flushed with ACtheAdapterback from the pump. Align the AC AdapterPortPlug\$EBQUFS1PSU\$EBQUFS1MVHFigure 2A. (A cord extension accessory is available that will allow the wall plug to be separated from the power transformer, see fig. 2B.2B. KANGAROO JOEY™5 Entertainment supply pumpFigure 2B. Battery installationUses the battery is partially charged. Charge the battery 6 hours before switching off the A/C power supply. It is also recommended that the battery charge be topped off before the battery-only operation is used. The battery pack will charge once each time the pump is plugged into a wall outlet, including normal pump operation with A/C power. 6 hours is required to fully charge the battery. A new battery provides about 18 hours of service before you need to charge. Attachment of pole clamps Kangaroo KENGA UJSture feeder can be attached to a vertical pole using the which is included in the pump (you can also buy an elastic handheld clamp and attach to the vertical . B fig. The stake clamp provides the ability to maintain the power cord to prevent accidental removal of the cord or loss of the wire. Simply wrap the wire around the wire to wrap

the posts to ensure that the wire stays with the pump. To attach the reel to the pump, simply slide the clamp on the mounting pin on the back of the pump (Figure 3A). When switched on, turn the lever to ensure fastening. Avoid reseed or loosening the handle. Figure 3A: KANGAROO JOEY™6Nequesry pumpFigure 3B. Fastening and using pole clamps. Section V – Instructions for useEok starts1. Press POWER in the lower-right corner of control panel.2. Open the blue door that includes the pump in the loading area.3. To insert the pump assembly (see Figure 4)• Grasp the finger tab of the valve and insert it into the front pocket (1).• Grasp the black ring latch and wrap the pipes around the rotor (2). Pull on the latch and insert it into the back pocket (3). Avoid overstretched the silicone tube. • Press the finger cap to the right to ensure that the valve is fully inserted into the pocket. • Close the blue door. KANGAROO JOEY™7 Enters a power pump (Note: The display status line must be read SET LOADED).4. Suspend the pump setting bag so that the starting volume of the formula is 6 inches above the pump (Figure 4B).5. To automatically install the pump, press 4PRIME PUMP and4AUTO PRIME. For feed and rinsing set, automatic priming will be primeboth lines.6. To directly control pump priming, press 4PRIME PUMP, and then press and hold the HOLD TO PRIME button(s)4. If a feed & Flush Set is used, remember to first press 4HOLD TO PRIME FLUSH until the flush fluid has reached the valve, and then press 4HOLD TO PRIME FEED until the feed liquid has reached the valve and down to the distal end connector.7. Use buttons4on on the left side of the LCD to set the power parameters. Set up flushing parameters when a flow and flush set are loaded. The continuous or irregular feed mode is selected from the MORE options menu.8. Press 4RUN when you're ready to start. The screen will show RUNNING.9. To stop, press 4HOLD or press and hold theBlack RingRetainer(MISTIC)3POWER button. Rotor21182541FingerTab6 (15.2 cm)ValveRemord 4A. Installation of pump assemblies. (For a more detailed view, see Figure 6.) WARNING: NON-OVERLOADING PIPE. Figure 4B. The right level of liquid. General starting point/assembly There are two recommended methods for placing the incoming power pump for THE KENKARO JOEY. • Attached to a vertical IV pole through the pole clamp peripheral device included in the package. • Positioned on any stable surface. A/C Power operation Disconnect KANGAROO supply pump to the A/C power outlet for normal operation. When the pump is not connected, or if the A/C power is interrupted, the built-in rechargeable battery will run on the pump. Battery power operationE.0 A/C power not available or if the A/C power is interrupted, the pump will automatically run on the spare battery. The built-in battery charges every time the pump is plugged in. KANGAROO JOEY™8The entertainment power pumpA fully charged, new battery will supply 18 hours of spare power 125 ml / h before charging. Contact CustomerService Section XI to replace the battery pack if the battery life is left. Note: The KANGAROO JOEY entry power pump will not work unless an approved KANGAROO JOEY enteral power pump is installed in the pump. On/offTo switch the pump on, press the POWER button in the lower right corner of the front panel. To turn off the pump, press and hold the power button until the pump display switches off. Language selection, First Power UpImmedia after powering up the pump for the first time, the language options screen will appear. Select a language using the buttons () or (). When the language is selected, press the fifth button () to enter the language selection. After the language of choice the first time the pump is powered up, the language selection screen will not appear during future power upoperations. If you need to change the language after you start it, you can change it in the MORE OPTIONS menu (see Figure 10A). Keep or Clear Prior Pump SettingsImmedia after switching on the pump, if the previous feed or flush settings are not cleared and the settings are not lockedBioTech Screen, the pump will give the following two options: KEEP SETTINGS - Select this option to start with the same settings as the last programmed pump. If necessary, you can modify any of the pre-programmed settings. Feed volume totals, ml FED (continuous feed mode) or BOLUSES FED and ML FLUSH are also maintained. If VTBD is set, the originally programmed VTBD setting will remain unchanged, but the deliverable value will restart with one. CLEAR SETTINGS - Select this option to reset all input power settings and output flow totals to zero. It will need to program all settings before working pump. BioTech option settings will not change. Note: The totals of the output (ml FED, BOLUSES FED, ml FLUSH) can be ascertained at any time and, without clearing the input, do the following: • Start the pump RUNNING• Press4HOLD• Press4CLEAR VOLUMEsuction status line will display LOAD A SET (Figure 5A-5B) or, if the pump kit is already inserted, it will display the SETLOADED (Figure 7A-7D). KANGAROO JOEY™9In-ed feed pump discharge pump kitsKEENENKOGURA JOEY input pump indicates LOAD A SET on the status line of the screen if the pump kit is not installed. The blinking icon of the pump kit will also appear in the upper left corner of the screen. Figure 5 shows the screen and figure 5 shows the . B of the intermittent power mode (intermittent power mode is not available in EZ pump mode). Picture. Figure 5.B 5. To load the pump kit, follow these steps:1. When the pump display is facing you, open the blue transparent door, which includes the loading area set by the rotor and pump.2. Insert the pump, which by holding the finger tab on the valve, then placing the valve in the valve slot to the left. (Figure 6A) 3. Grasp the tip of the MISTIC stopper (black ring latch) and wrap the tubes counterclockwise around the rotor. Avoid excessive stretching of the silicone pipe. (figure 6.B 4. Gently pull the MISTIC latch left and up to place it above the slot on the left, and then lower the latch into the slot. Press down on the fee, then release to ensure proper engagement. (Figure 6.B Figure 6) 5. Press the valve finger trigger to the right to ensure the correct number of seats.6. Close the blue transparent door by checking that the finger tab of the valve is caught with a gap in the blue door. NOTE: To avoid jamming alarms, make sure that the outside of the pump kit is free from droplets of water or formula.7. The top of the starting volume of the formula must be 6 inches above the pump (B 4). *45* \$3FUBJOF&OEJOHFS5BC1VNQ4FU7BMW7F7BMW4FMPU3FUBJOF4MPU4FU-PBEJOH% PPS1PXF\$ #VUUPOFigure 6A.B. The display must read SET LOADED and display one of these opening menus, depending on the type of menu set by the pump and whether a continuous or intermittent power mode is selected. KANGAROO JOEY™10Enterania power pumpFigure 7A. The menu opens in the no-flow mode with the feeder. Figure 7.B picture. Open the menu for a continuous feed mode with feed and flush mode set. Figure 7C. Opens menufor Intermittent Feed mode with aFeed-Only set. Figure 7.D: Opens a menu for intermittent feed mode with feed and flush mode set. The Prime Pump KANGAROO JOEY input pump can be primed automatically with a single button press, including the flush line, if the aFeed & Flush Set is loaded. The pump can also be primed for a more interactive method using the hold-to-prime function. After the pump kit is loaded and the status line shows SET LOADED, press 4PRIME PUMP in the opening menu (7A7D image) to get one of the PRIME PUMP menus shown in Figures 8A and 8.B. Picture. Figure 8.B 8. Auto Priming AUTO PRIME option will be available if the pump feels that the currently installed pump kit has not previously been previously, andit has no liquid in line at the rotor. If automatic priming is desirable, press and release 4AUTO PRIME to automatically set the line(s). For feed and flush pump kits , automatic both rows, starting with the flush line. Press 4STOP to cancel AUTO PRIME. KANGAROO JOEY™11Entrarie Power pumpWhen auto-priming is complete, the status line will show AUTO PRIME COMPLETE and will no longer show AUTO PRIMEoption. Make sure that the line(s) are fully primed. If not, use the option(s) to hold to the first place to complete priming as described below. Hold-to-PrimeTur-to-prime capabilities allow for accurate interactive control of the priming process. Only feed pump kitsFor feed-only pump kits, the screen will appear as shown in Figure 8A. Press and hold4HOLD TO PRIME FEED until the feed line is primed to the quilted end connector at the end of the pump kits. Supply and flush pump kitsSe of drain and flush pump kits, the display will appear as an 8.B figure. First press and hold4HOLD TO PRIME FLUSH to set the retcing line, and then press and hold 4HOLD TO FIRMLY FEED to set the feed line to the tip connector of the step at the end of the pump assembly. If a feed and flush pump kit is used, do not forget to first press 4HOLD TO PRIME FLUSH until the flush fluid has reached the valve, and then press4HOLD TO PRIME FEED until the feed liquid has reached over the valve and down to the step end connector. If the supply line is primed first, the priming of the subsequent rinsing line will force air between the rinse solution bag and the valve on the main line, which has previously been with the formula entered. Re-priming after the Bag EmptyA pump in the bag that is emptied will cause the FEED ERROR screen. In this position, the pump set in the bag can refill the feeding, but only after the pump, which is refilled. To refill the pump kit, do the following:• Disconnect the power cord from the patient. When choosing the Feed ModeEZ pump mode optionEe pump mode option is limited, continuous mode only KANGAROO JOEY entry power pump setup. It feedsnon-stop (no VTBD option) at a speed of 0-400ml /h as determined by the user until manually stopped. It has no Bolus, flushing, RunMode Screen Lock or AutoResume capability and displays history information. KANGAROO JOEY™12Invades the power pumpTurning ez pump mode to automatically force the unit from intermittent (Bolus Feed) mode if determined. Although the VTBD feeder mode will be set to 0 while EZ pump mode is enabled, the previous flow VTBD value will be stored in pump memory and recalled when EZ pump mode is removed. The user can change the feed speed by the usual means. Allthor user settings, including those that are not compatible with EZ pump mode (Bolus VTBD, number of Boluses, SuperBolus, etc.) that were set before the pump was put into EZ Pump will be ignored and invisible, but EZ PumpMode but remains stored in the pump memory when the EZ pump mode is removed. EZ pump mode does not essentially affect Clear Settings; pressing Clear Settings while EZ Pump mode is enabled will clear all Feed and Flush settings for untotalizers as usual, not just those relating to EZ pump mode. Selecting the Clear Settings option on will notclear Biotech options such as EZ Pump Mode or Lock Settings.If the user chooses the Customize Feed option on either Load Set or Set Loaded screens, the control goes directly to the unno Enter Feed Rate screen and bypasses the Adjust Feed screen, because without the possibility of adjusting VTBD in EZ pump mode, the Customize Feed screen is redundant. When you select EZ Pump mode mode, you can choose from the Biotech Options button, which can be accessed on the Biotech screen (see page 22). The EZ pump mode setting will be stored in the machine pump memory and saved when the device is switched off. Note: If the user inserts a feed/flush kit while EZ pump mode is enabled, the EZ pump mode will be cancelled and the device will return to normal mode immediately. If EZ pump mode is desirable, the user must re-enable EZ pump mode using the biotech options screen. If turned on instead of in certification mode, you'll see a small EZ icon next to the battery icon at the bottom of the screen. However, it won't appear on the Power Down, System Error, or Low Battery screens. Fig. 9.Choosing a continuous or intermittent feed mode the KANGAROO JOEY enteral power pump may be programmed to be fed continuously or periodically. The continuous feeding mode will ensure that enteral power is supplied at a steady speed, either until the planned volume has been delivered or until the supply is exhausted. Intermittent feeding mode ensures enteral feeding boluses at programmed time intervals. Bolus volume and feed speed are also programmed. To select a continuous feed mode or intermittent feed mode, press 4MORE in the opening menu, shown in 5.A-5. B or 7A-7D, to access the MORE OPTIONS menu, Figure 10A. The more is available either before the pump kit is loaded (5A-5B. deputation) or after pump load (7A7D. For information about other options on the OTHER OPTIONS menu, see More Options. KANGAROO JOEY™13Soevered power pump Select 4CONTINUOUS/INTERMITTENT from the MORE OPTIONS menu (Figure 10A). Then, in the SELECT MODE menu, 10.B image, press 4SNATED MODEor4INTERMITTENT MODE. Press 4DONE to exit. MENU 10A MORE OPTIONS. Figure 10.B. Continuous mode – Adjust the flow In the blood mode power mode for UNINTERRUPTIBLE power is available option ADJUST FLOW in the open menus (Figure 7A for feed sets only or figure 7.B in feed and (see all the totals). Select this option to power parameters from the ADJUST SUPPLY screen, Figure 11A. To determine the delivery speed, press 4FEED RATE in Figure 11A. Press 4 buttons in the 11.B figure to programme the speed from 1 to 400 in 1 ml / h. Press 4ENTER (top button) to exit the menu. To define the amount of volume to be delivered, press 4FEED VTBD in Figure 11A. Press the 4 buttons shown in the 11C image to programme the volume from 1 to 3000 ml in. Press 4ENTER (top button) to exit the menu. If the FEED VTBD is set to zero, the pump will run until the supply is exhausted. NOTE: When you set the FEED VTBD, the remaining amount of deliverable (remaining VTBD) will be displayed next to the W icon at the bottom right of the screen (Figure 11A). If feed VTBD is reprogrammed during power supply from HOLDING mode, the pump will resume power and provide the entire volume of the new VTBD setting. Figure 11A: Figure 11.B. Setting the feed speed. Figure 11.C. FeedVolume setup for delivery. Continuous Mode Flushing (Not available in EZMODE) Continuous feed mode with the feed and flush kit loaded, the opening menu is displayed as shown in Figure 7.B 7. Press 4ADJUST FLUSH 7.B figure to programme flushing parameters from the ADJUST FLUSH screen as shown in Figure 12A. To determine the flushing event, press 4FLUSH VOLUME in Figure 12A. Press 4 buttons in the 12.B figure to programme a volume of 10 to 500 in. Press 4ENTER (top button) to exit the menu. KANGAROO JOEY™14Slear supply pumpPress4FLUSH INTERVAL Figure 12A to determine the time interval between flushing starts. Press 4abers in figure 12C to set the interval of 12C to 1 to 24 hours in. Press 4ENTER (top button) to exit the menu. The pump automatically limits the flushing settings beyond the pump's ability to deliver. CAUTION: KANGAROO JOEY Enteral Feeding Pump waves at a rate of 1960 ml/h (32.7 ml/minute). Be careful when programming the flush volume to suit the patient's needs. NOTE: The pump automatically rinses an additional 25 ml of water after delivery of the programmed formula, as at least one rinsing has taken place during the delivery of the formulas. Figure 12A: Figure 12.B. FlushVolume Setup.12C. Picture. Setting flush timeInterval.Intermittent mode - Bolus adjustment (not available in EZ pump mode)Intermittent mode feeding mode, adjust bolus option is available in the opening menus (7C image only for feed-only set orFigure 7D feed and flushing setting). Select this option to program power parameters to customize the BOLUS screen, Figure 13A. Press 4BOLUS RATE 13A to determine the delivery speed. Press 4 buttons in the 13.B figure to program the delivery speed from 1 to 400 in. Press 4ENTER (top button) to exit the in BOLUS Figure 13A to determine the total number of bolus of deliverables. Press 4 buttons in the 13C image to program the number of bolus up to a maximum of 99.Press4ENTER (top button) to exit the menu. The bolus can be set to zero, in which case the pump will run until the supply is exhausted. Press 4VOLUME PER BOLUS in Figure 13A to determine the volume to be supplied in each bolus suck. Press 4buttons in a 13D image to program a volume of bolus from 1 to 3000 ml in increments of 1 ml.Press4ENTER (top button) to exit the menu. Press 4BOLUS INTERVAL 13A to determine the time interval between bolus delivery starts. Press the 4 buttons shown in Figure 13E to program the time interval between bolus delivery starts from 1 to 24 hours within 1 hour. Press 4ENTER (top button) to exit the menu. The pump will automatically limit the bolus settings beyond the pump's delivery capabilities. For example, a bolus delivery volume of 200 ml cannot be performed once an hour if 150 ml/h is already programmed. Figure 13A: Bolus Rate Setup.13C. Setting the Bolus number.13D. Picture. Set the volume to Bolus.13E. Setting the time interval forstarbees starts in the bolus. Intermittent Mode Feeding – Bolus Max (not available in EZ Pump Mode) bolus max option can be used to provide bolus at high speed, similar to gravity feeding. Press 4BOLUS MAX BOLUS RATE menu, 13.B image to the program in BOLUS MAX mode. The bolus max feeding rate is 999 ml/h. The intermittent flushingfor INTERMITTENT power mode with Feed & Flush Set, the opening menu shown in figure 7D, will display ADJUST FLUSHoption. Press 4ADJUST FLUSH in 7D image to program flushing parameters from flush adjust screen, Figure 14A. KANGAROO JOEY™16Enteral power pumpFigure 14A. Figure 14.B 14. Flushing set.14C. Picture. Setting Flush TimeInterval.Note: The nature of two intermittent processes, periodic bolus feeding and periodic flushing, is such that occasional conflicts can go on if each process is to operate at the same time. The flushing process takes precedence over the feed process for Feed & Flush pump kits. The flush priority means that the flush cycle will end even if a bolus delivery is scheduled. It also means that the flushing cycle will stop the bolus feeding cycle that is already in progress. The power cycle will be a pickup if it was stopped after the flush cycle is completed. It is therefore possible that the net power volume is may be provided for a specified period of time. Press 4FLUSH VOLUME in Figure 14A to determine the volume in one flush cycle. Press 4 buttons in 14.B to program the fissile element from 10 to 500 in in a step of 1 ml. Press 4ENTER (top button) to exit the menu. Press 4FLUSH INTERVAL in Figure 14A to determine the time interval between flushing. Press 4abers in the picture 14C to reserve a time interval of 1 to 24 hours in 1 hour. Press 4ENTER to exit the menu. The pump automatically limits the flushing settings beyond the pump's ability to deliver. CAUTION: KANGAROO JOEY Enteral Feeding Pump waves at a rate of 1960 ml/h (32.7 ml/minute). Be careful when programming the flush volume to suit the patient's needs. NOTE: The pump automatically rinses an additional 25 ml of water after delivery of the programmed formula, as at least one rinsing has taken place during the delivery of the formulas. RunThe KANGAROO JOEY Enteral Feeding Pump will only work when the pump kit is properly loaded and the required power parameters are programmed. For the feed and flushing set, the flush parameters need not be set to start the pump. Ifflushing parameters are set to zero, flush will not exist. Once the pump is programmed, press4RUN to start operation. Figure 15A shows the continuous feed mode for a continuous flushing feed. The status line indicates RUNNING, and the drop icon will move vertically on the screen. The green LEDindicator will be illuminated to provide a quick visual indication of the positive status in the darkened room. The RUNNING screen shows the feed rate, the flow volume, the feed data, the flush data when the supply and flush pump kit is used, and the remaining supply volume (remaining VTBD). The remaining VTBD appears next to the W icon. Run can be selected from the following screens if the correct parameters are programmed and the pump kit is loaded:• INSTALL LOADED screens (7A-7D image)• ADJUST THE POWER SCREEN, continuous mode (Figure 11A)• ADJUST WAVE SCREENS (Figure 12A, 14A)• HOLDING screens (Figure 18A)KANGAROO JOEY™17Enteral feed pumpSkava 15A. Figure 16: The Blocked Screen app indicates that the pump is in LOCKSETTINGS mode. The CTO (not available in EZ pump mode)The Keep Tube Open (CTO) function in the KANGAROO JOEY injection pump will help prevent power locking by periodically moving the feeding solution into the tube. Regularly, calculated from the speed of the current programmed edible feeding pump, a small and clinically insignificant part of the feeding solution is transferred to the pipe. The quantity of liquid delivered that is monitored, tracked, and calculated in the total quantities of final delivery that are displayed to the user. You can deactivate the CTO function by using the RUNNING screen. To function, press the input button to the left of the CTO icon, see Figure 15A to immediately enter the desired time in minutes in which the pump will remain in Keep Tube Open mode before leaving the previously programmed power circuit. The press time of each input button increases by 5 minutes to 30 minutes, see .B 15. After 30 is reached, each extra button press increases in larger time steps, up to a maximum of 240 minutes. Another button push after 240 will cycle the CTO back to 5 minutes. No other input is required to start the countdown, because the time that is immediately counted after the incremental value reached. Lock Screen FeatureThe KANGAROO JOEY Enteral Feeding Pump can be set to RUN and then locked from accidental use. Although LOCKSETTINGS prevents changes to input parameters only, LOCK SCREEN will lock all button presses, including RUN or HOLD, except off. Use LOCK SCREEN when the pump is running and is necessary to prevent unexpected button activation, such as putting pumpinto unwanted HOLD. Running screen will display a padlock to indicate that changes cannot be made without unlocking the screen. To lock the screen while the pump is running:• Press and hold the third 4button from above (next to it with the padlock), and then release it. To unlock the screen, use the same procedure above. Figure 17: Padlockindicates pump is inLOCK SCREEN mode. KANGAROO JOEY™18A sound feeding pumpholdPump operation can be stopped by pressing4HOLD while it is running, for example, in Figure 15A. The status line indicates THEHOLDINGU, and the yellow LED light will be illuminated to provide a quick visual indication of the informative status in the darkened room. Note: The pump alarm sounds if it is left in HOLDING for 10 minutes without further input. There are five options available during holding. See 18A and 18.B images. Picture. Picture. Clear Volume FedPress4CLEAR VOLUME re-zero output feed totals in ml fed, boluses fed and ml flush. Adjust SettingsPress4ADJUST SETTINGS to return to one of 7A-7D. If the pump kit is removed after entering HOLD, the opening menu will display the LOAD SET as shown in 5A-5B. Resume in __ minutes (not available in EZ Pump Mode) Press4RESUME IN __ MIN once immediately place kangaroo joey enteral feeding pump into 30 minute resumerunning mode. Pressing the 4RESUME IN __ MIN button again will cyle resume time back to zero. No other input is required to start the countdown, as the time immediately counted after 30 minutes immediately restart the pump. This option will not be available if the pump kit is removed during the hold. History (not available in EZ Pump Mode) Press4HISTORY access the history screen. Use this screen to review your power and flushing history. For more information, see moreOptions below. KANGAROO JOEY™19Enteral power pumpFlush Now (Not available in EZ pump mode) In operation mode the pump can be redirected to immediately perform flush (flush on demand) when the feed/flush kit is loaded by pressing 4FLUSH NOW in the operating menu, enter the desired flush volume, then press4ENTER. See Figure 15A. When 4FLUSH NOW is pressed, the screen will ask for the volume to be flushed out immediately, and the previously programmed flush volume is displayed as the default, but it can be adjusted to the desired user. The screen will appear as a standard in the input screen, as shown in .B 12 (or.B figure 14). Setting flush NOW write-off volume is temporary and will not change the pre-programmed emetic/periodic flush volume. If4FLUSH NOW is pressed randomly, the user can either press the cancelbutton or allow the screen to return to the running screen after 10 seconds if there is no input flush volume. If you want to stop flush NOW before the set volume is delivered, press 4FLUSH NOW and enter the zero volume of unpress4ENTER. FLUSH NOW will stop immediately and the pump will return to operation mode. Advanced optionsPress one of the Home menus, 5A-5B, or 7A-7D image to access the MORE OPTIONS screen, Figure 19.19. Picture. MOREOPTIONS menu. BuzzerPress4BUZZER made the MORE OPTIONS menu to access the buzzer screen and increase or decrease the alarm buzzer volume. Thealarm will be heard because the volume setting has been changed. This sets the volume level for any warning or error that may occur with the field. Critical error system errors and pump set dislodged will always use the maximum volume setting. History (not available in EZ pump mode)Press 4HISTORY on THE MORE OPTIONS menu to access the history screen. Click 4buttons in Figure 20 to determine the percentage of time history. The total of FEED ml and FLUSH ml will be displayed during the requested history. WARNING: You can retrieve up to 72 hours of past history, except data from the current hour. NOTE: The 72-hour letter includes the time when the pump is off. KANGAROO JOEY™20Enteral power pumpFigure 20. Flow and flush totals up to 72 hours in the previous history, excluding data from the current hour. LanguagesPress4LANGUAGES menu MORE OPTIONS to change the desired language screen interface. Continuous/intermittent (not available in EZ pump mode)Press 4CONTINUOUS/INTERMITTENT on the MORE OPTIONS menu to access the SELECT MODE menu (figure 10.B menu). Use this menu to select power supply and irregular power supply mode. See See Choose a continuous or intermittent mode for more information. On the OTHER OPTIONS menu, press 4DONE to exit the menu. BioTech MenuThe BioTech screen will show you technical information about the pump, and has a key function to lock the pump settings for antiauthenomarsumas changes. Accessing the BioTech ScreenTo get a BioTech screen, press the power button to start the pump, and press and hold the top4button while startupsequence (kangaroo icon hops across the screen) executes. You have to press the top4button at the end of the sequence to access the BioTech menu. Figure 21 shows the BioTech screen. Figure 21: BioTech screen. BioTech Screen DataSN is a serial number pump.SW shows the software version number of this pump. FLASH displays the flash data version number installed in this pump. KANGAROO JOEY™21Entranel pump

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