

USER'S MANUAL

INFUSION SYSTEM

20-6000-00

20-6005-00



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WELLS
JOHNSON

GENERAL DESCRIPTION

The infusion pump unit incorporates an enclosed, brushless DC (BLDC) motor that has a long working life and permanent lubrication. The gearbox was removed for increased efficiency and extremely quiet operation. It requires no maintenance for the lifetime of the motor. The motor driver takes advantage of a high performance DSP processor designed for 3-phase sine-wave brushless DC motor speed regulation. Power ON/OFF is achieved using the switch located on the back of the unit, and the motor speed adjustment is accomplished with a single-turn potentiometer switch located on the front panel.

SPECIFICATIONS

| | |
|-----------------------|---|
| Item number | 20-6000-00 |
| | 20-6005-00 |
| Weight | 11 lbs. |
| Dimensions | 7.25" x 12.5" x 6.25" |
| Voltage Range | 100 to 240 VAC, 50/60 Hz |
| Drive | single direction |
| Motor | 0 to 1050 rpm +/- 100 (load dependent) |
| Maximum Vacuum | 24" HG |
| Maximum Head Pressure | |
| Continuous | 25 psi |
| Intermittent | 40 psi @ max speed and outlet occlusion |
| Peristaltic Pump | |
| Maximum Flow Rate | 1300 ml/min. (with specified tubing) |

CHECKLIST

The infusion pump system consists of the following ten (10) basic components:

- Pump Controller (unit)
- Pump Head
- Power Cord
- Pneumatic Foot Switch
- Infusion Tubing (5 pieces)
- Black Aluminum Handles (2)
- Infusion Cannulas (2)
- Spinal Needles (3)
- IV Bag Stand
- User's Manual

Items being returned must be carefully packed to prevent damage in shipment, and insured against possible damage or loss. Wells Johnson Company will not be responsible for damage resulting from careless or insufficient packing.

****NOTE: Products with an expired warranty will be repaired for a nominal charge.****

COMPONENT DESCRIPTION

PUMP HEAD

LOADING

Sterile solution may be pumped through Infusion Tubing using the following technique to load the pump head:

1. Spike Bag
2. Clamp Tubing
3. Rotate the pump head lever counter clockwise to open the pump head.
4. Insert the enlarged center section of the infusion tubing into the pump head opening over the rollers. The flow direction should be from left to right as notes on the pump head.
5. Rotate the pump head lever clockwise to close the pump head and clamp the tubing.

PNEUMATIC FOOT SWITCH

The foot switch tubing is connected to either port located on the side of the pump.

INFUSION TUBING

Use sterile Infusion Tubing only. Manufacturer suggest only using approved Wells Johnson tubing- please refer to parts list. This tubing is precision-extruded and optically inspected to insure top performance with the pump head. Other commercial tubing may not meet, or perform, to specifications.

Warning: Infusion tubing sterile, single-use and not intended to be reused under any circumstances to prevent cross-contamination.

****NOTE: Refer to the section on the pump head for installation.****

BLACK ALUMINUM HANDLES

Black Aluminum Handles are designed to accept infusion tubing via luer lock connection. Standard luer lock needles or infusion cannulas are connected to the handle via conventional luer lock. The Black Aluminum Handle may be gassed, autoclaved, or soaked.

INFUSION NEEDLES

The infusion technique is based on using large volumes of a very dilute concentration of local anesthetic, which produces extremely efficient anesthesia, while minimizing blood loss.

All infiltration needles (or cannulas) are manufactured from surgical grade stainless steel with luer lock fittings (specify length and diameter when ordering).

IV BAG STAND

Place the IV Stand into the bracket located on back of pump. The stand is uni-directional and will go into place when hooks are centered over the pump.

****Caution: Make sure stand is inserted all the way into bracket (1-3/4") before attaching solution bags.****

SET UP AND OPERATION

The variable speed drive provides ease of operation. Place pump on stable surface. After installing the tubing in the pump head (refer to the "Pump Head" section), connect the power cord to an acceptable power outlet. Adjust the speed control knob to the desired speed. **The foot switch must be activated for pump to operate.**

NOTE: The numbers around the speed control knob are for reference only.

The pump control unit and the pump head remain outside of the sterile operating field. The peristaltic type pump head assures the sterile fluids remain within the tubing, never allowing direct contact with either the pump head or the pump control unit.

Caution: To prevent air infusion, always prime tubing prior to administering any fluid to patient.

***Caution: Continual verifications shall be made to ensure the tubing is not kinked, blocked or occluded in any way during operation. Failure to do so may cause fluid leakage from tubing and tubing failure.**

PARTS LIST:

| Item | Part # |
|---|------------|
| Infusion Pump | 20-6000-00 |
| Infusion Pump | 20-6005-00 |
| Power Cord (for 20-6000-00 unit) | 18-2820-00 |
| Power Cord (for 20-6005-00 unit) | 20-5101-11 |
| Infusion Pump Head, single | 18-4102-00 |
| Pneumatic Footswitch | 20-6010-01 |
| IV Bag Stand | 18-4200-00 |
| Multi Hole Infusion Cannulas (specify size) | 20-1218-00 |
| 3-Hole Spatula Infusion Cannulas (specify size) | 20-1223-00 |
| Spiral Infusion Cannulas (specify size) | 20-1243-00 |
| Multi Hole 12 Infusion Cannulas (specify size) | 20-1252-00 |
| Open Ended Infusion Cannulas (specify size) | 20-1257-00 |
| Black Aluminum Infusion Handle | 16-5181-00 |
| Spinal Needles; sterile, disposable | |
| 18g x 6" (1 ea.) | 24-6002-00 |
| 25g x 3" (1 ea.) | 24-6003-00 |
| 20g x 3.5" (1 ea.) | 24-6004-00 |
| CB Infiltration Tubing; sterile, disposable, single-use, single spike | 24-6008-00 |
| "Y" Infiltration Tubing; sterile, disposable, single-use, dual spike | 24-6009-00 |
| Large Bore Infiltration Tubing; sterile, disposable, single-use, single spike | 24-6028-00 |
| "YLB" Infiltration Tubing; sterile, disposable, single-use, dual spike | 24-6029-00 |

TROUBLE SHOOTING

SYSTEM WILL NOT POWER ON

- Ensure the supplied power cord is fully seated into receptacle on back of machine and into appropriate wall outlet.
- Check the power switch on the back of the machine is in the on (reset) position.
- The circuit breaker, from a power surge for example, may have been tripped. Because the circuit breaker is built into the power switch, the circuit breaker can be reset by pressing the power switch to on (reset) position. If the unit fails to power on, contact Wells Johnson Company Customer Service.

FOOT PEDAL(S) NOT WORKING

- Ensure the infusion foot pedal is adequately seated into the receptacle on the side of the unit.
- Move the foot pedal to the other receptacle.
- Press the foot pedal only after it has been adequately seated into the receptacle.

LITTLE TO NO INFUSION FLOW

- Increase the flow by turning the speed knob clockwise until desired flow is achieved.
- Verify the infusion tubing is inserted into pump head correctly following the flow direction label on front of unit.
- Check that the infusion tubing is not kinked, pinched, or clamped anywhere. Any occlusion may cause leaking of tubing.
- Verify that the tubing is correctly attached to fluid source and cannula/handle
- Verify that the tubing is correct and specified by Wells Johnson Company.

MAINTENANCE

Maintenance-Free unit.

Do not submerge.

Clean with hospital grade cleaning agent.

TECHNICAL ASSISTANCE

Technical assistance may be obtained by contacting the Wells Johnson Company Customer Service Department at 800-528-1597 or local 520-298-6069

The Wells Johnson Company reserves the right to make improvements in design, construction, and appearance of our products without notice.

Caution: Federal law restricts this device to sale by or on the order of a physician.

WARRANTY

- ***The Wells Johnson Company will void warranty on any products indicating negligence, or noncompliance with operation maintenance instructions.***
- ***Products are warranted against defect in material and workmanship for a period of five (5) years from date of purchase. If repair or adjustment is necessary, and are not the result of abuse or misuse, please return, freight prepaid, and correction will be performed without charge.***
- ***All returns require prior authorization from the Wells Johnson Quality Assurance Department.***

**For technical assistance call
Customer Service or Technical Support:**

520-298-6069

800-528-1597

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