

USER'S MANUAL

INFUSION SYSTEM

20-6000-00 (110V)

20-6005-00 (220V)



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GENERAL DESCRIPTION

The infusion pump unit incorporates an enclosed, permanent magnet D.C. motor that has a long brush life, with permanent lubrication and quiet operation. Motor control is via SCR circuitry featuring indirect velocity feedback for good load/line regulation which assures dependable speed (flow) control. Power on/off and motor speed adjustment is accomplished with a single-turn potentiometer switch located on the front panel. "Soft-start" and smooth, gradual acceleration to speed setting is provided when power is switched remotely from the unit.

SPECIFICATIONS

Item number	20-6000-00 (110V) 20-6005-00 (220V)
Weight	11 lbs.
Dimensions	7" x 11" x 5"
Power	100 to 130 Vac, 60 Hz
Drive	single direction
Motor	0 to 600 rpm
Maximum Vacuum	24" HG
Maximum Head Pressure	
Continuous	25 psi
Intermittent	40 psi
Peristaltic Pump	
Maximum Flow Rate	850 ml/min. (with specified tubing)

CHECKLIST

The infusion pump system consists of the following nine (9) basic components:

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

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.
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 hose barb 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.

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

BLACK DELRIN HANDLES

Black Delrin Handles are designed to accept infusion tubing via luer lock. Standard luer lock needles or infusion cannulas are connected to the handle via conventional luer lock. The Black Delrin handle may be gassed, autoclaved, or soaked. When sterilizing, Delrin handles cannot exceed 315 degrees.

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 form 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.

NOTE: 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 line cord to a 110v power outlet. Adjust the speed control knob to the desired speed. **The foot switch must be activated for pump to operate.**

NOTE: The numbers under the speed control knob are for reference only. If the direction of flow needs to be changed, reverse the intake and discharge sides of the tubing.

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.

PARTS LIST

ITEM	PART NO.
Infusion Pump (110V)	20-6000-00
Infusion Pump (220V)	20-6005-00
Infusion Pump Head, single	18-4102-00
Infusion Pump Head, double	18-4102-01
Pneumatic Foot Switch, single	20-6010-01
Pneumatic Foot Switch, dual	20-6010-02
IV Bag Stand	18-4200-00
Multi Hole Infusion Cannulas (specify size)	20-1218-00
3 Hole Spatula Cannula (specify size)	20-1223-00
Spiral Cannula (specify size)	20-1243-00
Multi Hole 12 Cannula (specify size)	20-1252-00
Open Ended Cannula (specify size)	20-1257-00
Black Delrin Handle	20-6004-98
Spinal Needles, sterile, disposable	
18g x 6"	24-6002-00
25g x 3"	24-6003-00
20g x 3 ½"	24-6004-00
Std single spike infusion tubing	24-6001-00
"Y" infiltration tubing	24-6009-00
Large Bore 188" tubing	24-6028-00
Large Bore "Y" connector 188" tubing	24-6029-00
Large Bore 120" tubing	24-6022-00
Large Bore "Y" connector 120" tubing	24-6023-00
Percutaneous Infiltrator	24-4046-00

TROUBLE SHOOTING

The two black buttons under the lever can be pushed inward allowing it to slide up or down to adjust the tubing size.

Sliding button upward loosens pump head grip on the infusion tubing. Tubing will have a tendency to “walk”, or bunch-up, in the pump head if the buttons are adjusted too high.

Adjusting the button downward tightens the pump head grip on the tubing. Adjusting the buttons toward the bottom of their excursions may restrict the flow rate.

NOTE: Adjustment of the buttons in the center of their excursion provides an optimum setting.

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.

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 one (1) year 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**