

# OPERATION and MAINTENANCE INSTRUCTION MANUAL

## NWS-9 Irrigation Delivery System



**Aseptic**

The Aseptico NWS-9 is a simple to use system for the delivery of sterile water for irrigation, isotonic saline or sterile water for simple surgery, topical medical, or oral procedures. The NWS-9 requires no power and may be easily moved about the operatory.

# *Congratulations*

This system is engineered to provide many years of reliable service. Please read the instructions provided in this manual to receive the best and longest service from your Aseptico equipment.

Separate manuals may be provided to cover the operation and maintenance of handpieces or other accessories for your unit.

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## **PACKAGE CONTENTS**

- NWS-9W Wand Assembly
- NWS-9T Wand Tip
- NWS-9C 1000 ml Infusion Cuff
- AE-29 Delivery Tubing Set:
- AE-1B Infusion Bag Holder Assembly
- Infusion Bag Holder Base- P/N 461133-08
- Manual

## **SYSTEM SETUP**

1. Clean and autoclave or cold disinfect the wand and tubing (see Cleaning and Disinfection, below)
  2. Place the infusion bag holder base onto a table or countertop.
  3. Insert the screw threads of the top portion of the bag holder into the end of the bottom portion of the bag holder. Tighten until the bag holder's shaft is rigid.
  4. Screw the thumbnut all the way onto the threaded end of the infusion bag holder.
  5. Screw the infusion bag holder onto the base until tight. The fully tightened holder might not point towards the front of the base. If this happens, loosen the infusion bag holder just enough to allow it to point forward, then turn the thumbnut clockwise to tighten it against the base and secure the holder.
  6. Insert a 1000 ml bag of isotonic saline or water (not included) into the NWS-9C infusion cuff and suspend from the infusion bag holder.
  7. Remove the thumbwheel and NWS-9T tip from the NWS-9 infusion wand.
  8. Thread the tubing through the wand from rear to front. If necessary, the two halves of the wand body may be unscrewed to make this easier. *(See picture on opposite page)*
  9. Press the tubing onto the hose barb connection at the rear of the NWS-9T tip. The tubing should pass over both barbs.
  10. Screw the tip into the front of the wand. If necessary, also re-connect both halves of the wand body.
  11. Insert the thumbwheel into the wand. Slide the wheel fully forward until it stops.
  12. Close the clamp on the delivery tubing.
  13. Insert the burette (bag spike) into the delivery port of the infusion bag.
- The system is now ready for use.

## OPERATION

Using the rubber bulb, pressurize the infusion cuff between 100 and 300 millimeters of mercury pressure. Higher pressure will provide increased flow rates.

Open the pinch clamp on the delivery tubing.

To begin flow, slide the thumbwheel backward with the forefinger or thumb. It is not necessary to slide the thumbwheel all the way back to begin flow.

To halt flow, slide the thumbwheel forward.

Fluid flow may be adjusted by increasing or decreasing the infusion cuff pressure. Moving the stand to a higher or lower position in the operatory will also increase or decrease flow.

**Warning: overpressurization, while not hazardous, can burst the infusion cuff. Do not allow cuff pressure to enter the red zone on the indicator gauge.**

## Cleaning and Disinfection

The NWS-9 irrigation wand system has been designed to be completely autoclavable. The wand, wand tip, burette, and delivery tubing may be wrapped in a sterilization pouch and autoclaved to 135° C. following the instructions for your particular autoclave.

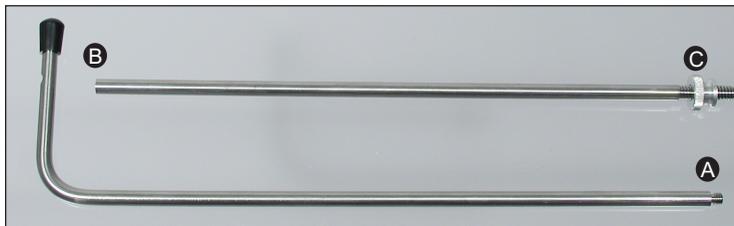
The metal portions of the system may also be cold-sterilized in a 3.4 per cent solution of non-corrosive glutaraldehyde disinfectant such as Cidex following the disinfectant manufacturer's instructions.

The infusion cuff, bag stand, pressure gauge, and exterior of the delivery tubing may be cleaned with any non-corrosive cleansing and disinfecting agent. Should the infusion bag or tubing become excessively soiled, they may be discarded and replaced. Contact Aseptico or your local distributor for appropriate replacement parts.

### Notice:

**Do not refill, or attempt to back-fill any water bag used with this unit. Such a procedure will assure non-sterility of delivered solution so long as such a bag continues in use.**

Water bags to be used with the NWS-9 are normally available from medical suppliers, hospital stores, local pharmacies, or many dental dealers.



AE-1B infusion bag holder assembly.

Insert threaded section (A) into (B) and tighten. Insert (C) into base and tighten.



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## WARRANTY

Aseptico warrants its products against defects in material or workmanship for a period of one (1) year, from date of original invoice. Some handpieces are warranted for one year under the same conditions. Other handpieces and expendable components, such as air turbines and light bulbs, are covered by shorter warranty periods, or have no warranty. Aseptico's sole obligation under product warranty is (at its sole option and discretion) to repair or replace any defective component or product in part or whole. Aseptico shall be the sole arbiter of such action.

In the event of alleged defect under warranty, the purchaser is to notify Aseptico's Customer Service Department promptly. Customer Service will provide instructions, usually directing that the product be returned for service. Shipment to Aseptico and the cost thereof is always the responsibility of the purchaser.

Accidental misuse, inappropriate installation, or failure to perform directed maintenance voids the warranty.

Aseptico does not assume, under this warranty, any risks or liabilities arising from the clinical use of its products, whether or not such use involves coincidental utilization of products manufactured by others.

**NOTE:** In the interest of serving our customers more efficiently, customers receiving service on non-warranted repairs are expected to accept charges that are less than \$250.00 without further notification.

## TROUBLESHOOTING:

Problem:	Correction:
Infusion cuff does not inflate:	Inspect pressure relief on bulb and make sure it is closed. Inspect check valve at rear of bulb to ensure it is closing during inflation. If it does not, replace cuff. Inspect cuff for tears or leaks.
No fluid flow:	Insure burette has fully pierced the bag Check pinch clamp and make sure it is open. Make sure infusion cuff is pressurized and elevated above wand.
Wand leaks from inside body:	Make sure the delivery tubing is not pinched or kinked. Made sure tubing fully covers both hose barbs on wand tip.
Infusion cuff bursts:	Replace cuff. Do not over inflate.