

Feature and Benefit Analysis

Features Benefits

Convenience

Size (12" x 2" x 4")

Low profile on tabletop
Easy to store
Can be worn with pouch

Clear view syringe shield

Easy to check mechanism position
Prevents mishandling of syringe plunger

Syringe gradations (cc's)

Easy to verify operation
Easy to verify remaining dosage time
Easy to verify contents at Full or Empty

Syringe & controls orientation (top facing)

Easy to view syringe gradations
crank, switch, and syringe visible

Large handle and crank

Easy to hold or carry pump
Can be hung on bed, chair, cart, etc.
Ergonomic Crank- reduces effort

Standard 60cc syringe

Standard filling
Fill range 1cc- 60cc
Easy to instruct patient
Easy to purge air

60cc syringe (polypropylene)

Easier storage than PVC bags
Less refrigeration or freezing required
Easy to view contents (clarity)

Removable extension set

Easy filling
Multi-dosing

Multiple fixed flow sets

Range of delivery time rates

Recessed positive START switch

Simple 1 button operation

Pump syringe interface design

Simple 2 step set up (load and start)
Simple 2 step syringe removal (crank and
remove)

Cost Savings

Inexpensive reusable pump

Low capital cost (just pennies per start)

Minimal pump maintenance

Lowers operating costs

Low cost set

Low cost per start

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Performance

Accuracy +8%

Consistent dose time for patient
Less site complications

Constant fluid pressure 13.5 psi

Maintains flow at differing heights vs. site
Clinical max recommended is 15 psi ⁽¹⁾

Manual power

No batteries to maintain
No "power out" during dose

Molded ABS plastic pump housing

Light (14 oz.) and rugged
Portable for increased quality of life
Easy to clean

60cc syringe (polypropylene)

Longer storage than PVC bags ⁽²⁾
Extremely durable container (no punctures)

Safety

Extension set safety-disc and rate label

Assures correct tubing and specific flow
Aids in proper handling of connector

Recessed positive START switch

No inadvertent shutoff

Spring loaded syringe holder

Maintains proper orientation and prevents
Inadvertent removal during dosing
Protects set end (at syringe) from impact

60cc syringe (polypropylene)

Improved stability and compatibility vs.
PVC bags and elastomeric containers⁽²⁾

⁽¹⁾ Aspects of Pressure Build-up in the Use of Electronic Infusion Devices,
M.B. Stuhmeiser, Anasth Intensivther, August 1987, pg. 185-190

⁽²⁾ Drug Stability and Compatability Special Consideration for Home Care,
H.A. Lima, R.Ph., Infusion, August 1996, pg. 10-16