

# HIGH PERFORMANCE LOW MAINTENANCE

ONE INTELLIGENT BLOOD/FLUID WARMER —  
THE RANGER® BLOOD/FLUID WARMING  
SYSTEM WITH SMARHEAT® TECHNOLOGY.



## RANGER SYSTEM HIGH FLOW SETS



Each Ranger system High Flow Set is equipped with an auto-venting bubble trap that is capable of venting up to 3,000 cc of air per minute.

**High Flow Disposable Set  
PN# 24350**



**Flow rates:** 6,000 to 30,000 mL/hr  
**Priming volume:** 150 mL  
**Components:** 2 I.V. spikes, drip chamber with 150-micron filter, needle injection port, needle-less injection port, auto-venting bubble trap, 30 inch extension  
**Filter:** Replaceable 150-micron filter (PN# 90029, sold separately)  
**Pressure infusion:** Up to 300 mmHg  
**Material:** Latex-free  
**Case quantity:** 10 disposable sets/case  
**Sterile:** EtO  
**Use:** Single use only

**High Flow Disposable Set  
PN# 24365**



**Flow rates:** KVO - 30,000 mL/hr  
**Priming volume:** 65 mL  
**Components:** Heat exchanger, auto-venting bubble trap  
**Pressure infusion:** Up to 300 mmHg  
**Material:** Latex-free  
**Case quantity:** 10 disposable sets/case  
**Sterile:** EtO  
**Use:** Single use only

The **24365** set is designed for the customer who wants the added safety of an auto-venting bubble trap. The set can be used in standard flow and high flow applications allowing the customer to tailor the upstream/administration set and downstream/patient line components.

**High Flow Disposable Set  
PN# 24370**



**Flow rates:** KVO - 30,000 mL/hr  
**Priming volume:** 89 mL  
**Components:** Heat exchanger, auto-venting bubble trap, 48 inch patient line  
**Pressure infusion:** Up to 300 mmHg  
**Material:** Latex-free  
**Case quantity:** 10 disposable sets/case  
**Sterile:** EtO  
**Use:** Single use only

The **24370** set is designed for the customer who wants the added safety of an auto-venting bubble trap. The set can be used in standard flow and high flow applications allowing the customer to tailor the upstream/administration set components.

## RANGER PRESSURE INFUSION SYSTEM

The Ranger system pressure infusor is designed for use with the Ranger fluid warming unit and Ranger high flow disposable sets.

The pressure infusor can accept 500 cc to 1,000 cc solution bags and includes a fitting that allows connection to a Ranger Power Pack air compressor or a hospital's wall-air system. The Ranger system pressure infusor provides pressure up to 300 mmHg.



### Pressure Infusors - PN# 90032

**Pressure:** 300 mmHg maximum

**Weight:** 15.5 lbs.

**Dimensions:** 13" w x 17" h x 10" d

**Case Quantity:** 2 Infusors on mounting bracket

**Use:** With Power Pack (PN# 90033)



### Off-set IV Pole and Base - PN# 90068/90069

The Ranger system off-set IV Pole and Base offers added stability.

**Weight:** 35 lbs.

**Dimensions:** 6 - 10 ft

**Case Quantity:** 1 each

**Use:** With Pressure Infusor (PN# 90032 and 90033)



### Power Pack - PN# 90033

**Power:** 110VAC/220-240VAC

**Pressure Setting:** 300 mmHg

**Weight:** 6 lbs.

**Dimensions:** 5" w x 7" h x 10" d

**Case Quantity:** 1 each

**Use:** With Pressure Infusor (PN# 90032)



### Warming Unit - PN# 24500

**Set point temperature:** 41° C

**Flow rates:** KVO - 30,000 mL/hr

**Alarms:** Over temperature primary setpoint = 43° C

Over temperature secondary setpoint = 46° C

**Power:** 110VAC/220-240VAC

**Weight:** 7 lbs. 7 oz

**Dimensions:** 7.5" w x 4.5" h x 10" d

