

## ***Implantable Infusion Pump***



- Totally implantable — reduces the risk of infection
- Transcutaneously refillable — ideal for long-term studies
- Allows fluid delivery to specific parts of the body
- Provides drug or parenteral fluid delivery at a uniform rate
- Eliminates need for costly apparatus for percutaneous administration
- Allows prolonged parenteral drug delivery
- Functions as either an implantable or portable unit
- Insensitive to changes in ambient temperature and pressure
- Reusable — can be sterilized for at least 10 to 20 autoclave cycles

Powered by a unique elastomer spring that also serves as one wall of the drug reservoir, these implantable infusion pumps provide continuous, constant pressure, site-specific drug delivery in laboratory animals on a long-term basis.

This patented pump is available in three sizes. The small pump is for use with rodents. The medium pump is appropriate for use with rabbits, cats and primates. The large pump is for use with dogs, goats and pigs.

Standard flow rates are 0.12, 1.0 and 3.3 ml/day for small, medium and large pumps respectively (nominal, infusing water). Custom rates are also available.

These pumps are constructed of bio-compatible stainless steel and polyamide and are supplied non-sterile. The small pump can be filled using a standard 25 gauge syringe needle, which must be purchased separately. Each medium and large pump is supplied with an external autoclavable syringe filter, a non-coring Huber point needle (20 gauge for large pump, 22 gauge for small or medium pump), 1 blunt needle (20 gauge), a standard intravascular catheter, a malleable metal (or plastic) trochar, and an instruction manual. The filter is used to pre-filter the infusate before it goes into the pump in order to avoid plugging the internal filter.

### Specifications

<b>Power Source</b>	Intrinsic elastomer spring
<b>Outlet Pressure</b>	2 p.s.i.
<b>Outlet Filter</b>	0.2 $\mu$ m polypropylene bacterial filter
<b>Catheter Material</b>	Silicone rubber

Catalog No.	Products
CGS 8343.63	Small Implantable Infusion Pump, 0.12 ml/day
CGS 8344.63	Medium Implantable Infusion Pump, 1.0 ml/day
CGS 8345.63	Large Implantable Infusion Pump, 3.3 ml/day
CGS 8346.63	Compatibility Test Kit, contains instructions and materials necessary for screening an infusate preparation for compatibility before first-time use in a Pump. The screening procedure requires from 5 to 30 days of incubation.
CGS 8347.63	Check Tip Catheter, prevents catheter tip from plugging in studies where there is no flow through the lumen for extended periods of time; 1.3 mm OD x 7.1 cm (0.05 x 18 in). Included are a trochar and a blunt needle, pkg. of 1
CGS 8348.63	Orthopedic Catheter, for long-term infusion of canine limb knee joint. Included are a drill bit, wrench, trochar, and blunt needle, pkg. of 1
CGS 8349.63	Autoclavable Syringe Filters, all refill solutions must be filtered to prevent pump plugging, pkg. of 12