



**Triumph SP12 Syringe pump** brings precision, ease of use, safety, and versatility for your everyday fluid therapy requirements from a company you can trust.

- Large 4.3 inch water resistant color touch screen
- 9 Preinstalled Syringe Brands: Monoject, BD, Terumo, VetOne, Covetrus, Ecomed, Pivetal, Exel, and Nipro
- Accepts 3ml\*- 60ml syringe sizes
- Dual battery for providing over 9 hours of battery life
- Enhanced safety features including full screen color coded alarms
- Rate mode, Time mode, Body-weight mode, sequence mode, and Drug Library Mode
- First ever Animal Health Specific Drug Library, Fully Customizable with Password protection
- Universal Pole Clamp enabling cage mounting
- Folding handle providing easier transport and space saving stackable design
- Low cost of ownership with a flat rate repair cost of \$325.00 with 1 year warranty on parts used to repair your pump



# Triumph SP12 Syringe Pump

Specification/Function	Description
Dimension	9.53"x4.96"x4.37"
Weight	3.75 lbs
Display	4.3" Color Touch Screen
Flow Rate Accuracy	+/- 3%
Syringe Sizes	3*, 5/6, 10/12, 20, 30/35, 60
Syringe Brands	Monoject, BD, Terumo, VetOne, Pivotal, Ecomed, Covetrus, Exel, Nipro (See Below, page 3, for the full list of Syringes installed in the pump)
Flow Rate	0.1-1500 ml/h (with increment 0.01 ml/h)
VTBI	0-9999.99 ml
Dose Rate Units	More than 15 types
KVO Rate	0.1-5.0 ml/h
Infusion Modes	5 Modes: Rate Mode, Time Mode, Body-Weight Mode, Sequence Mode, Drug Library Mode
Drug Library	Yes, Drugs can be added or edited (Editing is Password Protected)
Purge	Yes
Micro Mode	Yes, Ability to turn On/Off and Adjust from 100-1500 ml/hr
Standby Mode	Yes
Screen Lock	Yes (lock out time adjustable, ability to turn on/off)
Occlusion Levels	4 Levels, Ability to Change mmHg, kPa, bar, psi
Bolus Setting	Manual Bolus, Programmable Bolus
Anti-Bolus	Yes
Records	More than 5000 Entries
Recent Therapies	Yes, Retains last 20 most Recent Therapies
Battery Life	Dual Battery >9 Hours
Charging Time	< 5 Hours from empty to full charge
Maintenance Reminder	Yes, Adjustable by Contacting Triumph Medical – Password Protected
IP Level	IP34 (Waterproof)
Screen Brightness	Yes, 10 Levels
Volume Setting	Yes, 10 Levels
Battery Capacity Display	Adjustable to read time left or % Capacity
Languages	8 Different Languages
Night Mode	Adjustable Brightness and Time begin/end Ability to Turn On/Off
Nurse Call	Yes, Requires purchasing additional Software
Accessories	Power Cord, Universal pole clamp enabling cage mounting
Stackable w/o Docking Station	Yes
Power Supply	100-240V 50/60 Hz
Operating Environment	(1) Temperature: 5-40°C (2) Humidity: 20-90%, non-condensable (3) Atmospheric pressure: 86-106kPa
Safety Standards	IEC 60601-1:2005+A1:2012, IEC60601-2-24:2012, IEC60601-1-8: 2006+A: 2012, EN60601-1-2:2007+AC:2010
Alarms	Description
Clear Last Treatment**	Not Adjustable
Scheduled Maintenance Recommended**	Not Adjustable
Occlusion***	Adjustable 4 levels 50mmhg-900mmhg
KVO Finished***	KVO Run Time is 30 Minutes, KVO Rate Adjustable from 0-5ml/hr
Standby Time Expired***	Adjustable from 0-99 hours
VTBI Infused***	Not Adjustable
VTBI Near End***	Adjustable from off-30 mins
Drug Dose Limit Exceeded***	Adjustable in Drug Library specific to each drug
Check Syringe Installation	Not Adjustable
Verify Syringe Brand	Ability to turn On/Off
Continue with Treatment	Adjustable from Off-30 minutes of inactivity
Battery in Use	Not Adjustable
* Due to length of syringe plunger, pump does not accept 3ml VetOne and 3ml Monoject	
** These alarms will automatically accept after 30 seconds if no choice is made.	
***These alarms can be muted for 2 minutes at a time if not accepted initially	

Syringe Brand/Style	Syringe Sizes
Monoject LL Soft Pack	3ml, 6ml, 12ml, 20ml, 35ml, 60ml
Monoject LL Hard Pack	6ml, 12ml, 20ml, 35ml, 60ml (Does NOT accept 3ml Monoject Hard Pack)
BD LL Soft Pack	3ml, 5ml, 10ml, 20ml, 30ml, 60ml
Terumo LL Soft Pack	3ml, 5ml, 10ml, 20ml, 30ml, 60ml
VetOne LL Hard Pack	6ml, 12ml, 20ml, 35ml, 60ml
Exel LL Soft Pack	3ml, 5ml, 10ml, 20ml, 30ml, 60ml
Pivotal LL Soft Pack	3ml, 6ml, 12ml, 20ml
Ecomed LL	3ml, 5ml, 10ml, 20ml, 30ml, 60ml
Covetrus LL/LS Soft Pack	3ml, 6ml, 12ml, 20ml, 30ml, 60ml
Covetrus LL/LS Hard Pack	3ml, 6ml, 12ml, 20ml, 35ml, 60ml
Nipro LL Soft Pack	3ml, 5ml, 10ml, 20ml, 30ml, 50ml
Nipro LS Soft Pack	3ml, 5ml, 10ml, 20ml, 30ml, 50ml

\*If you're trying to use a Syringe not on the list above it is not Calibrated In the SP12 and will not function as intended. Please pay close attention to your syringe Brand, packaging (soft/hard pack), and type (luer slip/Luer Lock)

\*Attempting to use a syringe not listed above with the SP12 can Void your warranty