

**AJ5807**  
**Syringe Pump**

**User's Manual**

## AJ5807 High-Volume Syringe Pump Features

- ✓ Capability to Load 100ml Syringe  
With 100ml syringe, you can treat larger animals with larger volumes continuously without changing syringes
- ✓ Broad Infusion Capability  
Delivers general fluids, blood, fluid nutritionals
- ✓ Alarms/Message Light  
4 alarms via bright light indicators and sound

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## General Information

This high-volume syringe pump is a conventional device for specialty practices, universities, and general practices. A wide variety of clinical departments, such as internal medicine, cardiology, and oncology require being equipped with this type of syringe pump. This pump is mainly used for intravenous/arterial infusion, anesthetic injection, IV antibiotics, etc. This syringe pump offers a reliable alternative for fluid control, especially suitable for short-term, high speed thick fluid and precise injections.


## Precautions

### SAVE THIS MANUAL FOR YOUR FUTURE REFERENCE!

#### WARNINGS:

- THE PUMP MUST BE TURNED ON TO CHARGE THE INTERNAL BATTERY.
- DO NOT USE A PUMP, SYRINGE, OR ACCESSORY THAT SHOWS ANY SIGN OF DAMAGE.
- ONLY AUTHORIZED SERVICE PERSONNEL SHOULD REPAIR THIS PUMP. MANUFACTURER ASSUMES NO RESPONSIBILITY FOR INCIDENTS THAT OCCUR IF THE PUMP IS NOT REPAIRED ACCORDING TO MANUFACTURER-AUTHORIZED PROCEDURES.
- BEFORE CONNECTING THE SYRINGE TO THE PATIENT, USER MUST PRIME THE SYRINGE AND EXTENSION TUBE TO PREVENT AIR TO THE PATIENT.
- TO CLEAN THE PUMP, USE A DAMP (NOT WET) CLOTH OR SPONGE. DO NOT IMMERSE PUMP OR POWER CABLE INTO WATER OR OTHER CLEANING SOLUTIONS.
- ONLY USE THE THREE-PRONGE POWER CORD INCLUDED IN THE PACKAGE TO CONNECT THE PUMP TO AN AC WALL OUTLET.
- OPERATE AWAY FROM STRONG MAGNETIC FIELD (LARGE EQUIPMENT OR BIG MOTOR).

## Specifications

<b>Protection Against Electric Shock</b>	 Type BF
<b>Mode of Operation</b>	Continuous
<b>Degree of Protection Against Ingress of Fluids</b>	Drip-Proof IPX1
<b>Acceptable syringe sizes</b>	20ml, 50 / 60 ml, 100ml
<b>Pre-set infusion times</b>	4, 8, 12, 16 and 20 minutes, +/- 20 seconds
Battery operation at a flow rate of 50 ml/hr, assuming fully charged battery: 4 hours	

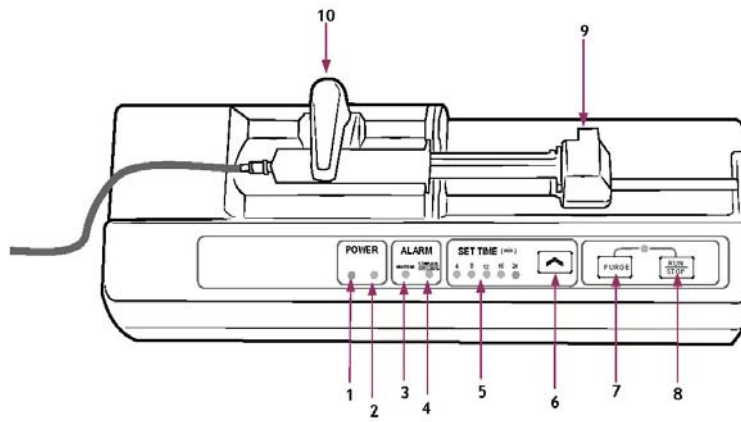
<b>Operating Temperature</b>	41°F-104°F (5 - 40°C)
<b>Relative Humidity</b>	80%, max
<b>Power Requirements</b>	120VAC 60Hz 6VA
<b>Dimensions</b>	13" x 4 1/2" x 4 1/2"
<b>Weight</b>	4.4 lbs (2 kg)

This Micro-Infusion Syringe Pump uses a propulsive force to inject medication and desired fluids into the patient. Among the features provided by this pump are:




- Audible and Visual Alarms of "Near Empty", "Complete/Occlusion", and "Low Batt"
- Wide range of compatible syringe: 20ml, 50 / 60ml, 100ml
- Waterproof ergonomic touch control panel

## Keypad Description





### A. Control Panel



1	AC power indicator
2	Built-in battery indicator
3	Near end alarm
4	COMPLETE/OCCLUSION alarm
5	SET TIME indicator
6	SET TIME button
7	PURGE
8	RUN/STOP
9	Syringe driver head
10	Syringe securing bar

	SET TIME - activated only in STOP mode. When pressed, sets the desired infusion time. 'SET TIME' indicator should illuminate
	PURGE - Only functions in STOP mode. When pressed, starts purging tubing set
	RUN/STOP - Press to start or stop the pump. 'MODE' indicator should illuminate.

### Alarms and Indicator Lights

	NEAR END - When there is approximately one minute of infusion time remaining, this indicator flashes and the alarm buzzer sounds. To silence the alarm, press the 'RUN/STOP' button.
	COMPLETE/OCCCLUSION - When infusion is complete, the indicator is illuminated in red and the alarm buzzer sounds. When the device senses an occlusion by not being able to drive with a force of 6.5kg +/- 1kg, the indicator is illuminated in red and the alarm buzzer sounds. To silence the alarm, press the 'RUN/STOP' button.
	The battery indicator light (orange) indicates the driver is using built-in battery power. This light and AC power light (green) will blink together if battery is low.
	AC power light (green) indicates the pump is connected to mains AC power and is charging the battery.

### Operation Procedures

1. Load the syringe with the desired fluid therapy, supplement, or medication. Lift up the Syringe Securing Knob and rotate towards the right 90°. Place the syringe into the bed. Be sure to insert the nozzle into the syringe slot. Then, press and hold the secure button on the driver to bring the driver block into such a position that the extremity of

the syringe plunger can be placed into the driver slot. Turn the Securing Knob to the left 90°, and secure the syringe.

2. The ON/OFF switch at the left side of the pump is a power switch. Connect the power cable to a wall outlet and turn the pump on. Press and hold the "PURGE" button to purge the syringe and the set tubing.
3. Press the "SET TIME" button to preset the desired infusion time, while the light (green) indicates a corresponding number is on.
4. Press the "RUN/STOP" button to start infusion; the running green light will be on. During the infusion, the "SET TIME" and "RAPID" buttons are locked. If you need to adjust the infusion time setting, press "RUN/STOP" followed by "SET TIME" button to reset the infusion time. To continue operation, press "RUN/STOP" again.
5. During the infusion, when "RUN/STOP" is pressed, the pump stops operation and goes into a HOLD mode with Operation Indicator (green) on. To continue the rest of infusion with the original setting, simply press "RUN/STOP" again.

**NOTE:**

- a) If there is an adjustment on the syringe or a resetting of the infusion time, the pump will begin infusion with the new settings. Otherwise, when "RUN/STOP" is pressed, the pump will continue the rest of infusion with the original settings.
- b) If the syringe or the set tubing becomes occluded beyond the pump's capability to pump, the alarm will activate and the OCCLUSION indicator (red) will come on. The pump will stop operating.
- c) To remove the syringe, lift up the Syringe Securing Knob and rotate right 90°. The RUN indicator goes off when the syringe is removed.

## **Storage**

This product should be stored in an environment with ambient temperature range of 14°F-131°F, (-10°C-55°C) relative humidity below 93%, and air pressure 500hpa-1060hpa. Do not store close to corrosive vapour and/or harmful impurities.

## Limited Warranty

Angel Electronic Equipment Co., Ltd. (hereinafter referred to as ANGEL) fully warrants that each AJ5807 pump will be free from defects in materials and workmanship under normal use and service from a period of two years from the date of delivery by ANGEL to the first user. If any such defect occurs during the ONE-year warranty period, the aforesaid purchaser should communicate directly with ANGEL. If returned to ANGEL, ANGEL will arrange for repairs or replacement within the terms of the warranty. When the two year full warranty expires, ANGEL provides lifetime technical service, charging for necessary parts at lowest cost ONLY. The defective pump should be promptly returned properly packaged, postage prepaid. (No prepaid postage is required within the two-year full warranty period.)