



Pro-SpenseTM

Cole-Parmer[®] Pro-SpenseTM Disposable Syringe Pump User's Manual



Model #74905-46 (100ml), #74905-47 (260ml)

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Cole-Parmer® Pro-Spense™ Disposable Syringe Pump

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Cole-Parmer® Pro-Spense™ Disposable Syringe Pump

Caution

- 1) This product is assigned to be operated by professionals.
- 2) The controller and the solution box are both disposable and can not be re-used
- 3) Before opening the solution box package, please examine it carefully. If the package is broken, usage is prohibited.
- 4) If there is leakage after medical solution has been injected into the box, usage of this product is prohibited.
- 5) After completing the injection, the product must be disposed according to government rules of disposable medical equipment.



CAUTION
Refer to Manual



*Protective Ground
Terminal*

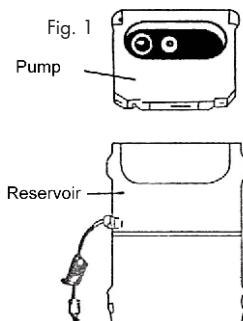
Specifications

Power Supply	1.5V battery ×2
Reservoir	100 ml or 260 ml
Flow Rate	1 ml/h–10 ml/h
Flow Setting Option	1, 2, 3, 4, 6, 8, 10 ml
Infusion Accuracy	±10%
Alarm and Indicator	"Low Battery" indicator; "Infusion Completion"/"Error" alarm; "Running" indicator
Function	1/4 of preset delivery dosage. P.C.A accuracy is ±10%. The interval between two P.C.A injections is no less than 30 minutes.

Operation

SYMBOLS

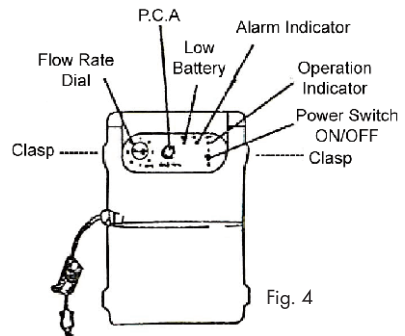
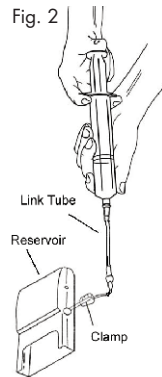
- 1) This product is internal powered, and is able to continuously working for hours;
- 2) Type of Protection Against Electric Shock:  TypeBF;
- 3) Degree of Protection Against Ingress of Fluids: IPX1;
- 4) Exclamatory mark:  Please refer to user's manual.



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OPERATION PROCEDURE

- 1) Load syringe, open the package of sterilized reservoir. Inject medication into the box through the linker. (Fig. 2) Then, referring to the air-vent direction on back of the reservoir box, vent air in the reservoir;
- 2) Close the roller clamp; take off the linker and connect on the extension tubing; now the reservoir is ready.
- 3) To prepare the controller, install two AA batteries. Please watch carefully the + and - polarities of the batteries. (Fig.3)
- 4) Turn the Flow Rate Setting Knob, locates on the control panel; set the flow rate to "Purge", and then turn on the power switch. While the power is on, indicators "Low Battery", "Alarm", "Run" will light with buzzer alarm (Fig.4). Push the P.C.A button, and check whether all the functions on the controller work well; after that shut down the controller immediately;
- 5) Push the controller into reservoir box (Fig. 4);
- 6) Turn on the controller again; push P.C.A button to drive air out of the tubing and needle; set the infusion rate; and push "Run" button to start infusion.
- 7) During a normal infusion, the green light is flashing intermittently;
- 8) During a normal infusion, the rate setting switch is locked automatically. If a resetting of the infusion rate is needed, the pump must be rebooted.



Cole-Parmer® Pro-Spense™ Disposable Syringe Pump

Parts and Accessories

PACKAGE AND COMPLETE SET

- 1) Controller (One piece)
- 2) Reservoir box (sterilized package) (One piece)
- 3) AA battery (Two pieces)
- 4) Disposable tubing (One piece)
- 5) User's manual (One piece)
- 6) Product series number, name, brand name;
- 7) Manufacturer, address, postal code;
- 8) Product quantity, weight, batch code;
- 9) Product transportation and storage identifiers
- 10) Environmental conditions for transportation and storage

Order #	Model
74905-46	Pro-Spense™ Portable Disposable Pump, Reservoir 100 ml
74905-47	Pro-Spense™ Portable Disposable Pump, Reservoir 260 ml

Cole-Parmer® Pro-Spense™ Disposable Syringe Pump

Limited Warranty

The Cole-Parmer® Instrument Company warrants this product to be free from significant deviations in material and workmanship for a period of one year from date of purchase. If repair or adjustment is necessary and has not been the result of abuse or misuse within the one year period, please return-freight prepaid-and correction will be made with-out charge. Cole-Parmer® Instrument Company alone will determine if the product problem is due to deviations or customer misuse.

Out of warranty products will be repaired on a charge basis.

Return of Items

Authorization must be obtained from our Customer Satisfaction Department before returning items for any reason. When applying for authorization, please include data regarding the reason the items are to be returned.

For your protection, item must be carefully packed to prevent damage in shipment and insured against possible damage or loss. Cole-Parmer® Instrument Company will not be responsible for damage resulting from careless or insufficient packing. A restocking charge will be made on all unauthorized returns.

NOTE: the Cole-Parmer® Instrument Company reserves the right to make improvements in design, construction and appearance of our products without notice.

Cole-Parmer® Instrument Company

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