# **BX-2**

# Metaroll Pump Dispenser User Manual

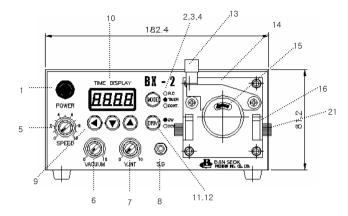
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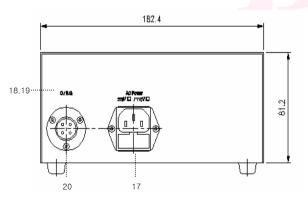
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# 1. Parts and Description



**≪Figure 1 : Frontage≫** 



≪Figure 2 : Backside ≫

	1	Power Switch	Led Lamp signals that the switch is on.
	2	RC Mode	A Remote Control Mode when operating LED flickers
	3	Timer Mode	Time range : ~ 99.99 sec.
	4	Cont. Mode	Continuous Operation
	5	Speed Adjustment Dial	Adjust the deposit size (0 ~ 10 VOLUME)
	6	VACUUM Adjustment Dial	The liquid cutting mechanism after ending of discharge operation.
	7	VACUUM Interval Timer	Adjustable within 0 ~ 3 sec.
	8	Manual INPUT JACK	Finger / FOOT S/W plug
	9	Time Set Button	To fix liquid outlets 0.01 ~ 99.99 sec.
	10	Timer Display	LED counts down.
	11	CCW/CW Fix S/W	CCW: Counterclockwise
	12		CW: Clockwise
	13	Guide Lock	To lock a tube guide
	14	Tube Guide	To support a tube installed in a roller
	15	Roler Head	To extract liquids from a tube.
	16	Tube Holder	To hold tube at the both ends which are supported by a roller.
	17	Electric Code	1.5 Meter
	18	Out Signal	When dispensing is finished, it generates output signals.
	19	Remote Signal Input	Same as #8
	20	Hand S/W	For a manual operation. Teflon tube 1M (option)
	21	Bottle Holder Fix Pin	To fix a bottle holder (Option)



### 2. Specification

Rotor Speed

Type Metaroll Pump Dispenser

Model BX-2

Time range 0.01 - 99.99 sec

Flow Speed 0.01 - 6 ml/min.(Teflon tube)

- 120 rpm (max.)

0.1 - 20 ml/min. (Silicon tube)

Dispense Pressure over 1.5kg / cm2

Direction of Pump Both direction (Forward / Reverse)

Power source AC 220V/110V, 50/60Hz measurement 182.4mm x 81.2 x 171mm

weight 3 kgs

#### Additional Function:

The liquid cutting mechanism enables adjustment in negative pressure for the Negative pressure (instantaneous reverse rotation) mechanism on ending of discharge operation.

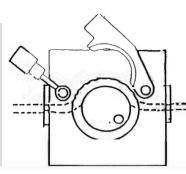
Further, adjustment in the interval time which is set before negative pressure operation is also adjustable.

## 3. Operation Guide

- Put the plug into the outlet. Turn the power on
- Set the tube onto the roller (please refer to figure #3).
- Set the direction mode and operation mode.
- ① Liquid flowing direction; CW: Reverse \* CCW: Forward
- 2 Operation mode;
  - \* R.C: Finger/Foot S/W
  - \* TIMER: To set operating time
  - \* CONT : For continuous use.
    - : To hold operation or stop, press either STOP or RC, or press TIMER to stop
- Set negative pressure / interval times according to your operation.
- Press Finger/Foot S/W to start operation.

#### Set the Tube:

- As shown in the right picture, press 'Guide' to loose a bolt and release Guide.
- Put the tube into the right groove of a tube to set a roller.
- Put the rest of the tube body into the left tube Holers groove.
- After setting the tube, turn the roller around a couple of times to allow the tube-flexible movements.



## 4. Trouble Shooting

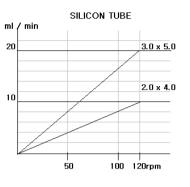
		8	
	Trouble	Cause	Solution
RE	Pump does not move	Plug is not firmly connected	Connect the plug firmly
		The power switch is off	Turn the switch on
		Fuse is off	Replace the fuse with new one/1A
		Speed dial is set to 0	The the dial to accelerate speed
	Tube moves when liquid is dispensed	Tube is not properly set in a groove	Set the tube appropriately
		Tube is not accustomed fully. (Teflon tubes only)	Get the tube accustomed well
		Tube is not specified one for The machine type. (Teflon tubes only)	Use specified tube
	Liquid	Guide is not properly set	Set the guide properly
	does not dispense	Guide support bolt is not firmly tighten up	Tighten the bolt up firmly
		Tube is not specified one	Use specified tube

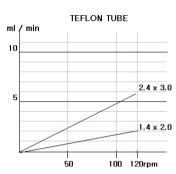
#### Note:

Clean the roller with closth or other appropriates to avoide dusts. Pour additional oil into the roller once a month or two months. When any troubles arise, contact a selling agent or our company



#### 5. Additional Data





#### 6. Cautions and Reminders

- Use the nominal Voltage (AC 220V/110V, 50/60Hz)
- Don not remove the body cover.
- Do not remodel the body or any of its interior parts.
- Do not touch the pump, rolling parts and the rotor's inner parts while the pump is working
- Do not stick anything in the nozzle. It may cause a crack in the tube or a liquid dispersion. When inner rotor is stuck with liquids, please send it immediately for repairing.
- $\bullet$  Do not place any unnecessary things on the body.
- The body should be placed on a working desk with a flat surface. Avoid falling or dropping
- When move the body, hold firmly with both hands
   Check if something oily or slippery is on the body or your hands are freasy when you move the unit.
- Do not use unspecified tube for the roller.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- When installing the controller, please be careful not to prevent the ventilating openings on the side of controller. Also, any materials must not be filled in .
- Please be sure to turn off the power when you input the hand switch to the controller.

# 7. Pump Head Types

Pump Head Types	Appropriate Tube and Size		
M	Teflon Tube	0.3 x 0.6	
S	Teflon Tube	0.5 x 1.0 0.6 x 1.1 0.7 x 1.2	
T	Teflon Tube	0.9 x 1.5 ~ 2.4 x 3.0	
G	Silicone Tube	0.5 x 2.5 ~ 8 x 10	

# 8. Environmental conditions for the equipment operation

- · Indoor use only.
- Altitude up to 2000 m
- Temperature  $5^{\circ}$ C  $50^{\circ}$ C.
- Maximum relative humidity 80%
- Mains supply voltage fluctuations not to exceed  $\pm 10$  % of the nominal voltage.
- Transient over voltage according to INSTALLATION CATEGORIES (OVERVOLTAGE CATEGORIES) II
- POLLUTION DEGREE 2 in accordance with IEC 664

