

# CYSCO

CYSCO BC-1080  
Operating Manual

**CYSCO**

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## **WARRANTY**

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The enclosed controller has been thoroughly tested and inspected, and has a one year guarantee against defects in materials and workmanship from date of sale.

Upon receipt of your BC-1080, unpack the shipping box carefully and inspect the contents for any damage that may have occurred in transit. Please notify our sales representative / agent at once of such damage due to transit.

BC-1080 comes with the following accessories:

- controller
- foot pedal
- syringe adapter (30cc)
- barrel with stopper
- needles
- power cord
- air line

**WARNING:** A filtered airline is required to keep the warranty in effect. When using vacuum, be careful not to allow material to be sucked up.

## TECHINICAL DATA

1. Timer Range: Adjustment between 0.01 sec to 99.99 sec
2. Interval time between 0.1 sec to 9.9 sec
3. Repeat Tolerance: +/-0.05%
4. Size: 240 x 155 x 58 mm
5. Weight: 2.25kg
6. Voltage Input: 220-240V 50Hz AC
7. Internal Voltage: 24V DC
8. Minimum Deposit: 0.01 ml
9. Air Input: 2.5-7 bar (35-100 psi)
10. Air Output: 0.1-5.5 bar (1-78psi)

## FEATURES

### Power Switch

Turns unit on and off. Illuminated to indicate "ON" position

### Air Pressure

Controls and Indicates air pressure to the dispense circuit (the Regulator / gauge: handle of regulator should be pulled out to adjust)

### Mode Switch

Dip switch at mode setting : set the aoperation mode of machine to be manual, semi-automatic or automatic

### Timer Control

Adjust the shot of the Auto dispense mode

### Vacuum Control

Adjust the intensity of "suck back" vacuum applied to the dispense circuit

### Dispense Outlet

Provide a quick connect receptacle for dispense air circuit

### Socket of Foot-switch

Activates the dispense circuit

### Air-in tube

High-pressured air input

### Dispensing control

Four grades for the dispensing cycle time

## PARAMETER SETTING EXPLANATION



1. Air pressure adjustment inside: adjust the air pressure adjustor on the front panel so as to adjust air pressure inside and obtain pressure value from the barometer general used between 0.1 - 2.7bar (1 - 40psi) the knob shall be pulled firstly and then tuned).
2. The adjustment of vacuum reverse pump intensity: Use the vacuum control knob on the front panel to adjust the vacuum reverse pump intensity after instilment completion and be able to block redundant glue exuded from pinhole due to inertia by vacuum reverse pump.
3. Instilment Mode: make use of mode setting dial switch on the back panel for setting and the detailed setting method can be referred to the following table.

Serial No	Mode Switch Condition				Figure 1
	S1	S2	S3	S4	
1	OFF	OFF	OFF	OFF	Step on the pedal switch for invariable cement output and let it loose for stopping cement output
2	ON	OFF	OFF	OFF	
3	OFF	ON	OFF	OFF	
4	ON	ON	OFF	OFF	
5	OFF	OFF	ON	OFF	
6	ON	OFF	ON	OFF	
7	OFF	ON	ON	OFF	
8	ON	ON	ON	OFF	
9	OFF	OFF	OFF	ON	
10	ON	OFF	OFF	ON	
11	OFF	ON	OFF	ON	
12	ON	ON	OFF	ON	
13	OFF	OFF	ON	ON	
14	ON	OFF	ON	ON	
15	OFF	ON	ON	ON	
16	ON	ON	ON	ON	

# TROUBLE SHOOTING

## SYMPTOM

If material does not dispense:

## SOLUTION

Check the quick disconnect fitting in the front of the unit and make sure the male portion (which is connected to a syringe adapter) is properly connected. You must have it inserted and twisted 1/4 of a turn clockwise. If it isn't completely attached, air is not sufficiently getting to the syringe or valve.

Check all electrical connections both to the unit, and to the electrical outlet.

Check the fuse in the back of the unit to make sure it has not blown.

Make sure the unit is in the 'ON' position, and the light is illuminated on the switch.

Make sure in house air is connected and regulator is turned on.

If you are not getting the proper amount of material:

Adjust the pressure regulator accordingly to your application, to get the desired flow rate.

Change the needle size to adjust to your application. **CYSCO** offers needle gauges from 14 to 34 gauge.

If you hear air leaking:

Make sure vacuum is turned off. When vacuum is turned on, it is normal to hear a hissing sound. Check all fittings that may have hoses attached to them. Make sure they are fully attached, or clamped. Make sure the hoses do not have a crack or split in them. If so, disconnect the hose from the fitting or clamp, cut off about 1/4 inch, and reattach. **IMPORTANT:** Please do this when the unit is disconnected fully from the air source. It is also a good idea to unplug the unit.

# TROUBLE SHOOTING

## SYMPTOM

Dripping out of a syringe:

## SOLUTION

Turn the syringe upside down, and in a manual mode, dispense material into a paper towel with the syringe upside down. This may release any trapped air between the syringe tip and the needle.

Make sure there is no air trapped between the stopper inside the syringe and the material. If the stopper is not flush against the material - please do the following:

- With plastic stoppers in syringe: take the adapter off the syringe so you can access the back of the syringe. With the rubber end of a pencil, push the stopper flush against the material.

- With rubber stoppers in syringe: take the adapter off the syringe so you can access the back of the syringe. Take a paper clip, and extend it straight, and insert it the back end of the syringe-towards any side of the rubber stopper. Keep on pushing the paper clip until it comes in contact with some material. Then take a rubber end of a pencil and push the rubber stopper flush against the material.

If there is a lot of air mixed in your material, re-load a new syringe with material trying to keep the syringe as air-free as possible.

Replace the needle with a new one. Try using a tapered plastic needle instead of the straight designed metal / plastic needles. This may create less opportunity for dripping.

Always use the largest orifice (needle) and the least amount of air pressure in combination to achieve optimum results.

# CAUTION

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The dispensed material may be toxic and / or hazardous, refer to material manufacturer's product data sheets / technical data sheets. High pressure air max. shall not exceed 7 bar (100 psi), otherwise bad influences will occur. If the work pressure is over 4 bar, please use aluminium-allog connector.

## MAINTENANCE

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To ensure trouble free operation, the following points should be followed:

1. Make sure that air supply is clean and dry.
2. Make sure AC outlet is grounded and proper voltage rating.
3. Avoid turning barrels upside down or laying barrel so that material may run through air line to internal components.
4. Do not allow barrel assemblies to contact hot or sharp objects
5. Avoid connecting liquid dispenser to air supply exceeding 7 bar (100 psi).
6. Avoid exposing liquid dispenser to excessive moisture or solvent.

## SET-UP PROCEDURE

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1. Connect a filtered air supply (100 psi maximum) to the connector on the rear panel of the unit.
2. Plug electrical cord into back of unit and into available outlet.
3. Plug the foot switch into back of the unit.
4. To dispense from syringe, insert syringe adapter assembly into coupler located on the front of the panel . Switch on the power supply switch and the indicator of power supply is "ON".
5. Adjust air pressure adjustment buttons until the pressure gauge expected air pressure value 6. It can work smoothly after setting instilment time, instilment interval as well as operation mode. (For operation mode, see below for more details) See Figure 1.
6. Adjust regulator knob to desired pressure.
7. Depress foot switch . Pressure on the foot pedal can be released immediately and timer will complete its cycle.