

Harvard Peristaltic Pump '66' and '77'



'66' and '77'
Peristaltic Pumps

- Highly accurate peristaltic pumps $\pm 1\%$
- Unique ramped deceleration and 'slurp back'
- Continuous volume or batch mode operation
- Easy to use

Harvard's '66' and '77' Peristaltic Pumps provide highly accurate and repeatable flow rates and are extremely easy to use.

High Accuracy

These pumps have the same high quality micro-stepping motor that creates the legendary accuracy of Harvard Syringe Pumps. Other peristaltic pumps have less accurate DC motors. No other peristaltic pump offers this quality of basic motor control. Additional accuracy features include ramped deceleration as the end-point is approached and a 'slurping' feature to prevent end of dispense dripping. As the end-point approaches, the pump slows to drop-by-drop delivery. As the last drop required is delivered, the pump immediately reverses one step and slurps back preventing unintended fluid delivery. Only these Harvard Apparatus innovations enable accuracy that approaches that of a syringe pump from a peristaltic pump.

Fast and Easy

Routine work is made fast, easy and convenient with Harvard's '66' and '77' peristaltic pumps. Just enter the calibration factor of the tubing and the flow rate desired. The pump takes care of the rest. All settings are stored in non-volatile memory.

Flexibility

Harvard's '66' and '77' peristaltic pumps offer three pumping protocols for outstanding flexibility:

- **Continuous flow** – set the flow rate desired and the pump will run continuously until you stop it.
- **Volume Mode** – enter the volume to be delivered and the pump will run until that volume is delivered.
- **Batch Mode** – simply enter the time interval between dispenses and the number of dispenses you want and the pump will take it from there. It couldn't be more simple.

Two Sizes Available

Harvard's peristaltic pump is offered in two sizes. The only difference between the two pumps is the flow rates provided. The '66' accepts smaller diameter tubing and provides flow rates from 0.01 to 210 ml/minute. The larger size '77' pump accepts larger diameter tubing to provide flow rates from 0.01 to 750 ml/minute.

Calibration by Volume or Weight

For precise volumetric calibration, measure the actual volume pumped compared to what the pump thinks it has delivered. Enter the exact amount actually delivered into the pump and the pump will automatically recalibrate itself in microliters per pump head revolution. For precise gravimetric calibration, connect the pump to a Mettler, Ohaus or Sartorius scale with a feedback connector. The pump now operates by weight and will recalibrate itself in grams per pump head revolution.

RS-232C Interface and TTL Input/Output

This pump can be controlled remotely by any personal computer via an RS-232C interface. Up to 99 pumps can be daisy-chained using the daisy-chain connector and cables offered as accessories. A connector for TTL input/output permits remote control of all functions.

Specifications

Type	3 roller rotary peristaltic
Accuracy	$\pm 1\%$
Reproducibility	$\pm 1\%$

Catalog No.

CGS 8970.63

CGS 8971.63

CGS 8972.63

CGS 8973.63

CGS 8974.63

CGS 8975.63

CGS 8976.63

CGS 8977.63

Products and Accessories

Harvard Peristaltic Pump '66'

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Daisy-Chain Connector; Computer to Pump

Daisy-Chain Cable; Pump to Pump, 1.8 m (6 ft)

Foot Switch

Feedback Loop Connector for Mettler Scale

Feedback Loop Connector for Ohaus Scale

Feedback Loop Connector for Sartorius Scale