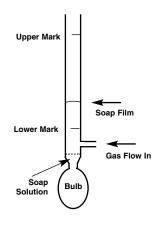
# INSTRUCTIONS FOR THE **Soap Bubble Flowmeter**

#### FROM

## CHROMATOGRAPHY RESEARCH SUPPLIES

### PRODUCT INFORMATION

The CRS Bubble Flowmeter allows accurate calculation of gas flow, by measuring the passage time of a soap film between two marks.



**Assembly:** Attach rubber tubing to the side-arm of the Bubble Flowmeter. Fill the bulb with soap solution (water and detergent, or Snoop®) and attach to the bottom of the Bubble Flowmeter. Mount the Bubble Flowmeter near the gas supply to be measured, then attach the tubing to the gas supply.

**Operation:** Squeeze the bulb to raise soap solution above the side arm (gas inlet), then release the bulb to lower soap solution. A film of soap solution will rise in the Bubble Flowmeter. Measure the time of transit of the soap film between two marks, lower and upper. Use a stopwatch for highest accuracy. The two marks give a known volume, and the time of passage allows calculation of volume flow per unit time.

**Sample Calculation:** Given a 10ml Bubble Flowmeter, with Lower Mark 0.00ml and upper mark 10.0ml; soap film transit time 35 seconds.

10.0ml 35sec.	<u>, 60sec.</u>	_	17.1ml/min
35sec. '	1min.	_	17.1110/11001

#### **REORDER INFORMATION**

1ml Soap Bubble Flowmeter26130110ml Soap Bubble Flowmeter26131025ml Soap Bubble Flowmeter26132550ml Soap Bubble Flowmeter261350Triple Stage Bubble Flowmeter261390Replacement Bulb, for 1 or 10ml261335	Replacement Bulb, for 25ml Replacement Bulb, for 50ml Replacement Bulb, for 100ml Magnetic Holder (not for 1ml size), pk/2 Snoop <sup>®</sup> Leak Detector Stopwatch, Digital	261337 261338 261339 261333 205300 205200
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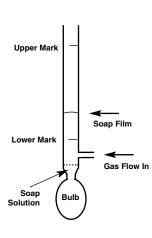
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 $\frac{10.0\text{ml}}{35\text{sec.}} \times \frac{60\text{sec.}}{1\text{min.}} = 17.1\text{ml/min}$ 

#### **REORDER INFORMATION**

261301

261310

261325

261350

261390

261335

1ml Soap Bubble Flowmeter 10ml Soap Bubble Flowmeter 25ml Soap Bubble Flowmeter 50ml Soap Bubble Flowmeter Triple Stage Bubble Flowmeter Replacement Bulb, for 1 or 10ml Replacement Bulb, for 25ml261337Replacement Bulb, for 50ml261338Replacement Bulb, for 100ml261339Magnetic Holder (not for 1ml size), pk/2261333Snoop® Leak Detector205300Stopwatch, Digital205200

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