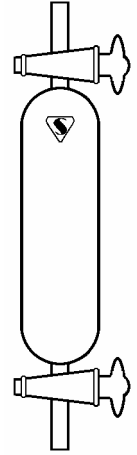


# GAS APPARATUS

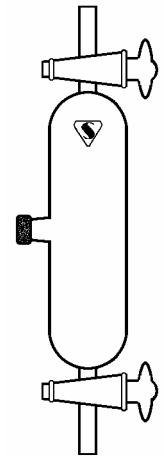
**11-1000: GAS SAMPLING TUBE, TEFLON STOPCOCKS - Supplied with Teflon stopcock and capillary stems.**

Code #	Capacity ml	Stopcock Bore mm	Approximate Overall Length
01	125	2	290
02	250	4	320
03	500	4	345
04	Replacement 2mm Teflon Plug		
05	Replacement 4mm Teflon Plug		



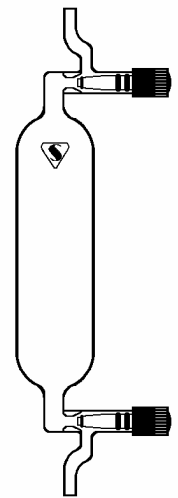
**11-1020: GAS SAMPLING TUBE, TEFLON STOPCOCKS WITH SAMPLING PORT - Similar to 11-1000, but with the addition of a syringe sampling port. Supplied complete with one red rubber septa.**

Code #	Capacity ml	Stopcock Bore mm	Approximate Overall Length
01	125	2	290
02	250	4	320
03	500	4	345
04	Replacement 2mm Teflon Plug		
05	Replacement 4mm Teflon Plug		



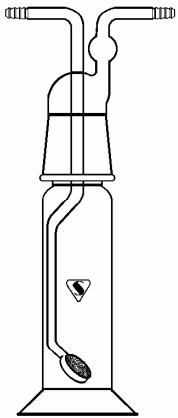
**11-1040: GAS COLLECTING TUBE: - With 4mm Teflon valves on either end for use in high pressure applications.**

Code #	Capacity ml
01	125
02	250
03	500
04	1000



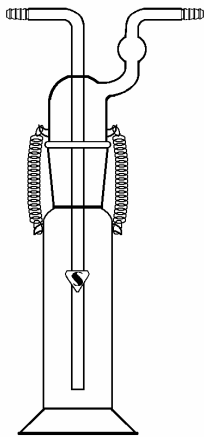
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# GAS APPARATUS



**12-106: GAS WASHING BOTTLE** - Gas washing bottle with  $\text{29/42}$  joint on top. 60mm Frit is available in coarse or extra coarse porosity. Supplied with  $\text{29/42}$  hose adapter and Keck plastic clip.

Code #	Description
01	Complete – with 250ml bottle
02	500 ml Bottle
03	$\text{29/42}$ Adapter
04	Keck Clip



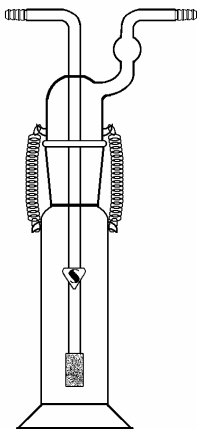
**12-1065: BOTTLE, GAS WASHING, TALL FORM, DRECHEL** – Tall form gas washing bottle having a standard taper  $\text{24/28}$  top joint, hex base and plain tube for gas dispersion. Stopper is held in place with two 18mm stainless steel springs. Springs are supplied when bottle is ordered complete.

**Complete Code**

Code #	Capacity ml	Approximate Height mm
01	125	290
02	250	305

**Replacement Components**

Code #	Description
01	Bottle Only, 125ml
02	Bottle Only, 250ml
03	Bottle Only, 500ml
04	18mm Stainless Steel Springs, Pkg. of 12



**12-1075: BOTTLE, GAS WASHING, TALL FORM, FRITTED** – Tall form gas washing bottle having a standard taper  $\text{34/28}$  top joint, hex base and fritted tube for gas dispersion. Available with a Coarse or Extra Coarse fritted cylinder. Stopper is held in place with two 18mm stainless steel springs. Springs are supplied when bottle is ordered complete.

**Complete Bottles**

Code #	Capacity ml	Approximate Height mm	Porosity
01	125	290	X-C
02	125	290	C
03	250	305	X-C
04	250	305	C
05	500	380	X-C
06	500	380	C

**Replacement Components**

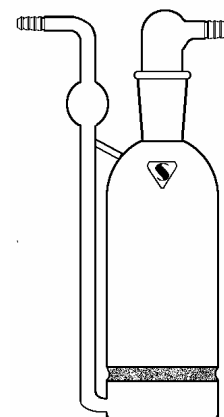
Code #	Description
01	Stopper Only, 125ml, X-C
02	Stopper Only, 125ml, C
03	Stopper Only, 250ml, X-C
04	Stopper Only, 250ml, C
05	Stopper Only, 500ml, X-C
06	Stopper Only, 500ml, C
07	Bottle Only, 125ml
08	Bottle Only, 250ml
09	Bottle Only, 500ml
10	18mm Stainless Steel springs, Pkg. of 12

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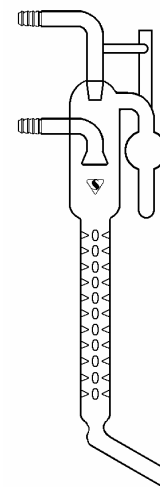
# GAS APPARATUS

**12-1080: GAS WASHING BOTTLE - With large disc to provide greater capacity. Available in either coarse or extra coarse porosity. Supplied with spring ears and two springs.**

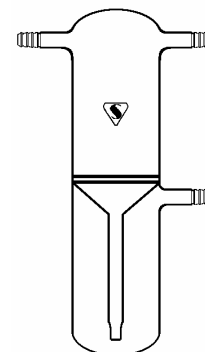
Code #	Capacity ml	Joint Size	Overall Height mm
01	125	40/50	340
02	250	40/50	320
03	500	40/50	450
04	Bubbler Tube	125ml	Specify Porosity
05	Bubbler Tube	250ml	Specify Porosity
06	Bubbler Tube	500ml	Specify Porosity
07	Bottle	125ml	
08	Bottle	250ml	
09	Bottle	500ml	



**12-1100: GAS SCRUBBER - For use with water soluble gases. Vigreux section allows gases to be scrubbed then drained out the bottom tube. Approximate Height: 600mm.**

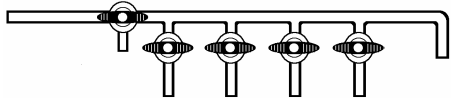
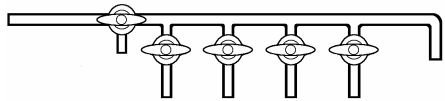


**12-1120: GAS WASH BOTTLE - General purpose gas wash bottle. Approximate height 200mm.**



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# GAS APPARATUS



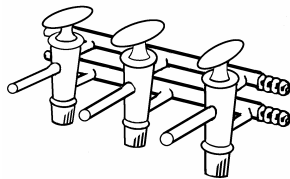
**12-1140: GAS MANIFOLD** - Manifold with 2mm bore glass or Teflon stopcocks on the ports. A 'T' bore stopcock is located 100mm from the end of the manifold and 40mm from the first port. The distance between the other 3 ports is 50mm with the last port being 75mm from the opposite end of the manifold. The entire manifold is constructed of capillary tubing having an OD of 8mm and an ID of 2mm.

**Glass Stopcock**

Code #	Stopcock Ports
01	3 Port
02	4 Port

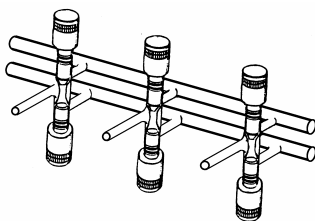
**Teflon Stopcock**

Code #	Stopcock Ports
03	3 Port
04	4 Port



**12-1160: GAS MANIFOLD** – General purpose double-bank manifold for use with vacuum and inert gas. Both banks are made from 1/2" medium wall tubing with 10mm OD serrated connections. Stopcocks are glass 4mm bore with lower vacuum chamber and are spaced 85mm center to center. Manifold has top right connection to inert gas and left connection for vacuum.

Code #	# of Ports
01	3
02	4
03	5
04	6
05	6+



**12-1180: GAS MANIFOLD** – General purpose double bank manifold for use with vacuum and inert gas. Supplied with 0-4 mm Chem-Cap plugs for grease-free operation. Both banks are made from 1/2" medium wall tubing and have the upper left and lower right banks open. Ports are spaced 100mm center to center and have an OD of 9mm.

Code #	# of Ports
01	3
02	4
03	5
04	6

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# GAS APPARATUS

**12-1240: VACUUM MANIFOLD, TEFLON** – General purpose manifold with 4 or 6 ports. Main tube is 1" OD with a serrated hose connection located at either the right or left side for vacuum connection. Stopcocks are 4mm Teflon with serrated hose connections. Spacing between stopcocks is approximately 65mm.

Manifold with Right Hand Vacuum Connection:

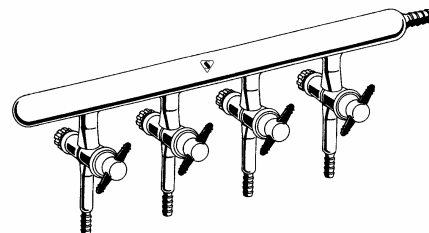
Code #	Number of Ports	Stopcock Bore mm
01	4	4
02	6	4

Manifold with Left Hand Vacuum Connection:

Code #	Number of Ports	Stopcock Bore mm
01	4	4
02	6	4

Replacement Components

Code #	Description
01	4mm Teflon Plug



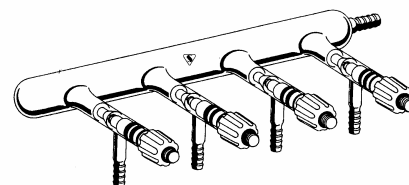
**12-1260: VACUUM MANIFOLD** – Single bank general purpose manifold with 3, 4, or 5 ports. Valves are either 0-4 or 0-8mm with Chem-Cap® plug allowing only glass and Teflon contact with material being used. Valves are spaced 60mm apart for the 0-4mm, 75mm for the 0-8mm size. Main tube is 38mm OD with a choice of right or left side vacuum connection.

Manifold with Right Hand Vacuum Connection

Code #	# of Ports	Valve Size mm	Approx. Overall Width mm
01	3	0-4	240
02	3	0-8	350
03	4	0-4	300
04	4	0-8	425
05	5	0-4	360
06	5	0-8	500

Manifold with Left Hand Vacuum Connection

Code #	# of Ports	Valve Size mm	Approx. Overall Width mm
01	3	0-4	240
02	3	0-8	350
03	4	0-4	300
04	4	0-8	425
05	5	0-4	360
06	5	0-8	500

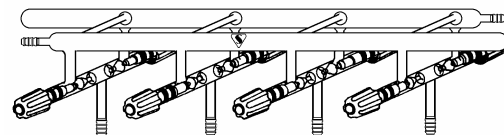


**12-1280: VACUUM, INERT MANIFOLD** – General purpose double bank manifold for use with vacuum and inert gas. Supplied with serrated hose connections having an OD of 8mm on the port connections and 11mm OD serrations on the upper left and lower right banks. Both the vacuum and inert banks are made with larger diameter 3/4" medium wall tubing. Manifold also has rod braces between each bank located in line with the valves which are sealed at a 45° angle to allow for easier manipulation.

Code #	# of Ports	Overall Width mm
01	3	400
02	4	500
03	5	600

Replacement Components

Code #	Description
01	0-4mm Chem-Cap® Plug
02	0-8mm Chem-Cap® Plug



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