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Find the *Harrick Scientific Products DGC-S10* at our website: *Click HERE*

DEMOUNTABLE GAS CELL (DGC)

Suitable for gas samples, the demountable Gas Cell provides a means of continuously monitoring flowing gases as well as static samples.

Available in 5cm or 10cm lengths, these cells are completely demountable for easy window replacement and cleaning. The cell body is made of Pyrex which is durable and heat resistant. This allows visual inspection of the sample for possible solid or liquid contaminants, while providing an inert container for gaseous mixtures. The diameter of the cell is sufficient to avoid vignetting of the sample beam. Four socket head screws supply pressure to the O-Rings placed between the window and cell body producing a vacuum tight seal. Viton O-Rings are normally supplied but are also available in teflon, silicone and kalrez.

The gas cell is normally supplied with window recepticles that accommodate one 24 x 4mm (or 25 x 2mm) and one 50 x 6mm window. However, the cell may be ordered with accessories for two 50 x 6mm windows (see figure 1).

The choice of windows is determined by the spectral range and the nature of the sample. Windows available from Harrick Scientific include: NaCl, KBr, CaF_2, CsI, KRS-5, ZnSe, and CdTe. Other materials are available on special request. Please refer to the Harrick Scientific Catalog and price list.

To assemble, refer to exploded view; Figure 1. When both windows are 50mm the O-Rings are mounted on O-Ring retainers (not pictured), when a 25mm window is used only the O-Ring sealing the 50mm window requires a retainer, since the flange provides the support for the remaining 032 O-Ring.

Assembly is simplified when:

1) The rods are first screwed through the front window recepticle and slide plate.
2) Assembly is positioned with slide plate on the table and rods vertical.
3) Build cell "up" from slide plate according to exploded view; Figure 1.
4) Tighten socket head screws with wrench provided.

N.B. Exercise extreme caution in removing either recepticle when disassembling the cell!

HARRICK SCIENTIFIC CORPORATION
88 Broadway • Box 1288 • Ossining, NY 10562 • 914/762-0020
FAX 914/762-0914

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PARTS LIST FOR DGC-S10

		QTY	DESCRIPTION
1.		4	6/32 X 1/2 FLAT HEAD SCREW
2.		1	SLIDE PLATE
3.		1	FRONT WINDOW RECEPTICLE
4.		4	RODS
5A.		1	50 X 6mm WINDOW
5B.	a.	1ea.	2mm OR 4mm SPACER
	b.	1	25 x 4mm (or 25 x 2mm) WINDOW
	c.	1	020 O-RING
	d.	1	FLANGE
6.		1	032 O-RING
7.		1	PYREX CELL BODY
8.		1	50 X 6 WINDOW
9.		1	REAR WINDOW RECEPTICLE
10.		4	SOCKET HEAD SCREWS (1/4")

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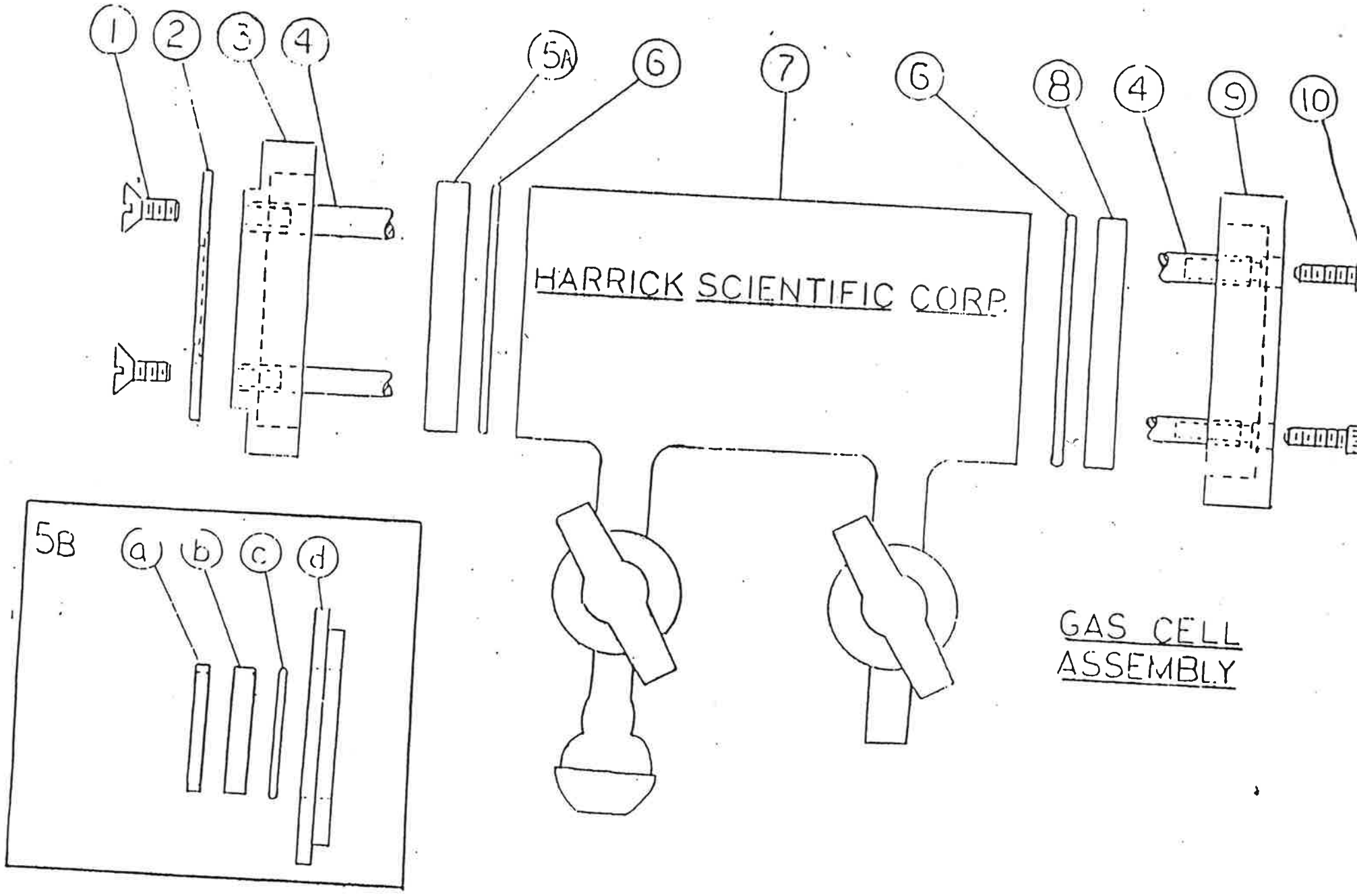


Fig. 1

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