



CHIS TUBE CONDITIONING ACCESSORY

5 μ l and 10 μ l SYRINGES

syringe care and maintenance plungers

The tube conditioning accessory from SGE has been designed to simultaneously condition up to six CHIS sample tubes prior to sample collection.

It is recommended that once the tubes have been conditioned they are placed in storage tubes, in order to prevent the tubes becoming re-contaminated before use. These tubes are also recommended for storage after sampling.

USING THE CONDITIONING ACCESSORY

1. Install up to six CHIS tubes into the accessory using the nuts and ferrules provided as shown in Figure 1. The fittings should be tightened finger tight and then a further 1/4 turn with a spanner. There is no need to over-tighten these fittings.

Both 3mm and 0.8mm I.D. tubes can be installed using either the OGF8-4.2 or OGF8-8 ferrules. If less than six tubes are to be conditioned, empty positions should be blanked off using the GVF8-000 ferrules.

Note: the GVF ferrules may shrink slightly on first use and may need re-tightening to prevent leakage.

2. With tubes fitted, stand the accessory on the GC oven floor.

3. Connect a suitable gas supply to the accessory using the end fitting. Either 1/16" O.D. stainless steel tubing can be used or a short length of 0.53mm I.D. fused silica. The latter is probably most convenient as it will allow easy connection to an injector port which can be used as the gas supply. The carrier gas should be dry, oxygen free and free of organic contamination.

NB. DO NOT USE HYDROGEN AS CARRIER, SINCE BUILD UP IN THE OVEN COULD LEAD TO EXPLOSION.

4. Adjust the carrier gas pressure or flow control to give a flow of around 10 ml/min through each tube.

5. Close the oven door and set the required conditioning temperature and time. It may be possible to set a GC temperature program to automatically cool down after the conditioning time.

6. It is recommended that new tubes are conditioned at 300°C for at least four hours. Subsequent conditioning temperatures and times will depend upon the analysis undertaken and the history of the tubes.

A blank run will indicate whether a tube is sufficiently conditioned.

7. Maintain the carrier flow whilst the tubes are cooling. Note that filtered, contamination free carrier is important to prevent any build up of contaminants at this stage.

8. Remove the tubes and place them in suitable storage devices until required. eg. SGE, CHIS storage tubes P/N 0932260 or 0932261.

9. Turn off the carrier gas.

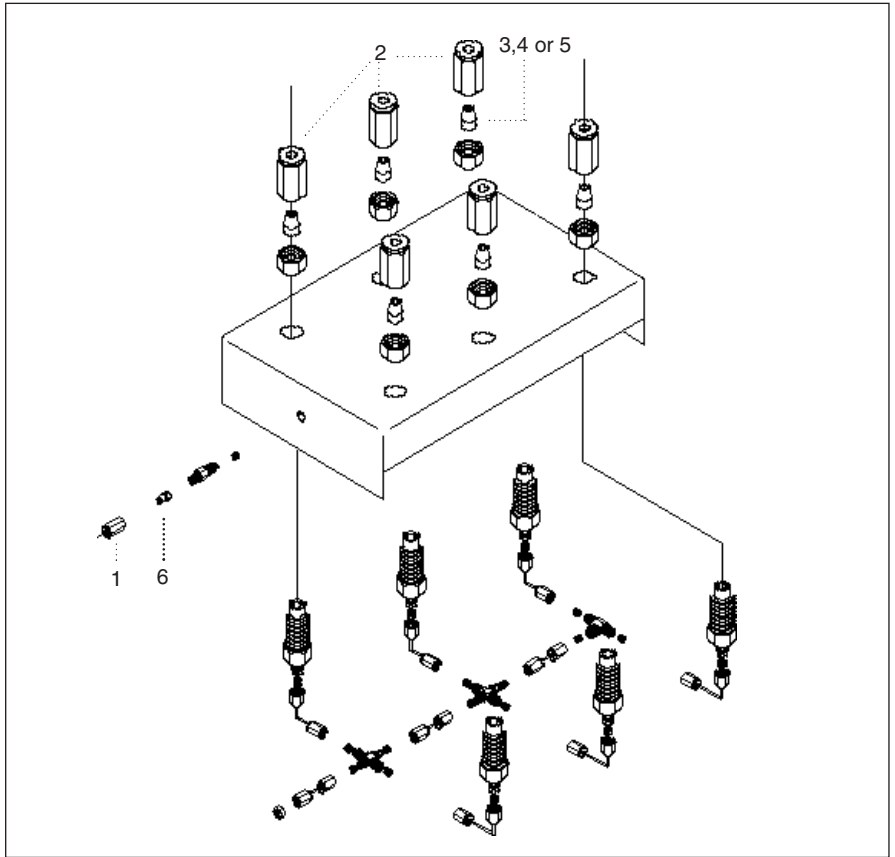
10. Handle conditioned tubes only by the screw threaded portion of the tube in order to prevent contamination of the main tube body.

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Two sizes of storage tubes are available to suit the CHIS-A and CHIS-B sample tubes :-

**CHIS-A storage tube
Part Number 0932260**

**CHIS-B storage tube
Part Number 0932261**



PARTS LISTING

Part No.	Order Code	Description	Legend
103408	SSNE16 x 1	1/16" Stainless steel extended nuts	1
1034021	SSNE8/04 x 1	1/8" x 4mm Stainless steel extended nuts	2
072622	OGF8-8 ferrules x 10	1/8" x 1/8" one piece graphite ferrules	3
0726213	OGF8-4.2 ferrules x 10	1/8" x 4.2mm one piece graphite ferrule	4
072670	GVF8-000 ferrules x 6	1/8" graphitised vespel blanking ferrule	5
072655	GVF16 - 008 x 5	1/16" x 0.08mm one piece graphitised vespel	6
OR 072657	GVF 16 - 16 x 5	1/16" x 1/16" one piece graphitised vespel	6

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