Cold Vapor Bracket Installation Instruction Sheet

The cold vapor bracket allows the cold vapor methods to be used with the SpectrAA instruments (refer to the Appendix for a full list of compatible instruments). The bracket allows installation of the following cells in the sample compartment:

- Mercury flow-through cell
- Standard hydride absorption cell

These instructions describe how to:

- Install the cold vapor bracket
- Install the absorption cell for the cold vapor bracket

Installation Instructions

To install the cold vapor bracket:

1 Remove the upper and lower flame shields.

NOTE Steps 2 and 3 do not apply to 'G' (dedicated furnace) models.

For G versions:

a Remove the GTA workhead and put it in the storage position

b Go to Step 4.

2 Remove the burner.

WARNING

Hot Surface Hazard
The burner is extremely hot during operation and will remain hot for some time after operation. Make sure that the burner has had time to cool before you attempt to remove it. Wear heat-insulated gloves as an extra safety precaution.

3 Remove the spray chamber and store it in the provided stand.

4 Fit the two lugs on the cold vapor bracket into the two holes on top of the burner adjuster.

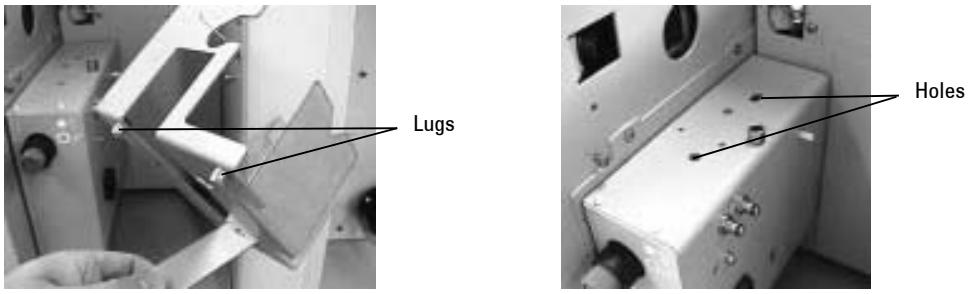

Figure 1. Lugs on cold vapor bracket (left). Holes on top of burner adjuster (right)

5 Screw the thumb screw through the bracket support and into the side of the burner adjuster to hold the cold vapor bracket in place.

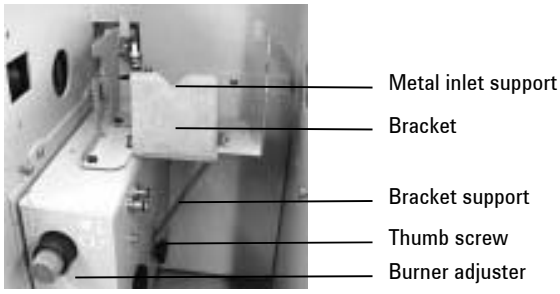

Figure 2. Bracket fitted to burner adjuster

6 You can now install a cell into the cold vapor bracket (see procedure below).

TIP Horizontal adjustment of the cold vapor bracket — and therefore the cell — can be achieved by adjusting the bracket thumb screw.

Installing a Standard Absorption Cell

To install a standard absorption cell into the cold vapor bracket:

1 Open the left clip of the cold vapor bracket.

2 Insert the standard absorption cell into the retaining slots.

3 Gently close the left clip.

4 Open the clip on the right of the cold vapor bracket, push the cell fully 'home' and gently close the clip.

5 If using a standard absorption cell, the control inlet stem should rest on the metal support.

If using the flow-through cell, the inlet and outlet stems should be on the outside of the metal inlet support.

6 Connect the block transfer tubing from the outlet of the gas-liquid separator to the inlet of the standard absorption cell.

7 Optimize the cell position for maximum light transmission by using the burner adjustment controls.

The system is now ready to use.

Software

To use the cold vapor bracket accessory with the SpectrAA software (see Appendix 1 for a list of appropriate instruments) you must develop a vapor method.

To complete an automated sequence of elements in one run you must develop and run a vapor sequence.

When developing a vapor method and the element being determined is Hg, set the atomizer type to 'Cold vapor'. Select 'Electric Hydride' when determining any other hydride element using the ETC 60 (to atomize the analyte hydride).

Refer to your SpectrAA Help for further information on the development and running of methods and sequences. Press F1 within the application to view the Help.

Appendix

These instruments can be fitted with the cold vapor bracket:

- AA 875/975
- AA 1275/1475
- SpectrAA 10/20
- SpectrAA 30/40
- SpectrAA 300/400
- SpectrAA 250
- SpectrAA 600/640
- SpectrAA 800/840/880
- SpectrAA 100/200
- SpectrAA 110/220
- AA 50/55

Instruments that are compatible with the following spray chambers are also compatible with the cold vapor bracket:

- Mark V
- Mark VI
- Mark 7

This information is subject to change without notice.

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Agilent Technologies
679 Springvale Road
Mulgrave, VIC 3170

Agilent Technologies