



# *TA Instruments*

## *Packing the DSC Q1000/Q2000*

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This procedure covers the steps for properly packing up the DSC Q1000/2000 instrument for shipment.

### **Packing Materials Provided**

- Cell shipping foam with clamp
- Shipping plug
- Autolid shipping foam
- Rubber bands (2)
- Shipping hooks (4)

### **Tools Required**

- Phillips screwdriver
- Flathead screwdriver
- 3/32" or 5/32" (depending on cooling device)
- Heavy-duty tape
- Strapping kit

### ***Packing Procedure***

**NOTE:** If the instrument is equipped with an RCS or LNCS, the flange temperature must be at ambient temperature before removing the cooling head.

- 1** Remove any samples from the cell area. Remove the dust cover and the sample tray (if applicable).

- 2 Remove the waste bin and insert the shipping plug.



**Figure 1**

- 3 For Q1000:
  - a On the LCD screen, press the **Control Menu** button.
  - b Press the **Autolid** button to open the lid.For Q2000:
  - a On the LCD screen, press the **CONTROL** button
  - b Press the lid icon on the left hand side of the screen.
  - c The control command should say “LID OPEN.”
  - d Press **APPLY** to open the lid.
- 4 Remove the 4 screws on the blue cell dress cover and then remove the cover.
- 5 Unplug the 2-pin heater power wire (RCS ONLY).
- 6 Remove the cooling unit (RCS, LNCS, FACS) from the cell.



**Figure 2**

7 Place the shipping foam over the cell (Figure 3). Tighten the shipping clamp.



Figure 3

8 Re-install the blue dress cover over the cell.

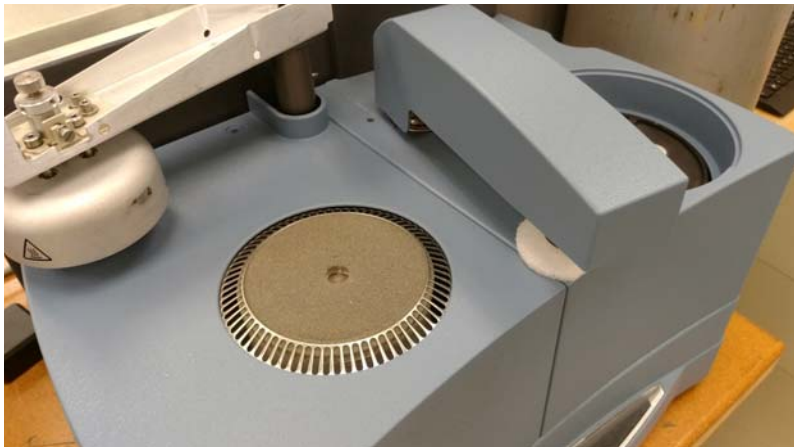


Figure 4

9 For Q1000:

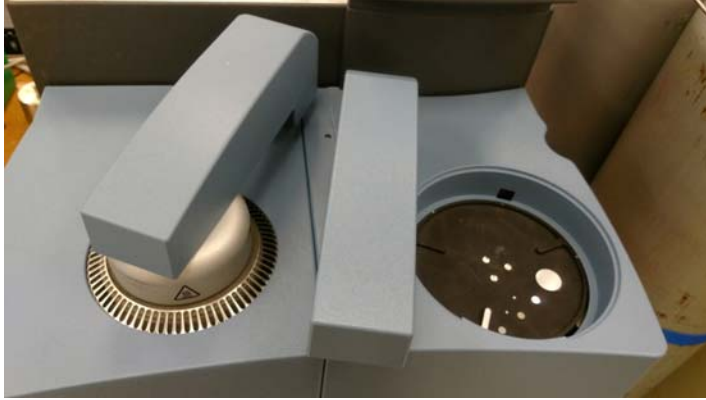
a On the LCD screen, press the **CONTROL MENU** button.

b Next, press **AUTOSAMPLER**.

NOTE: The Autolid (over the cell) automatically opens (if not already). This is normal.

c Press **TEST MODE** and then **SENSORS**.

- d Press **SHIP** to move the autosampler arm and insert the fingers into the shipping plug.



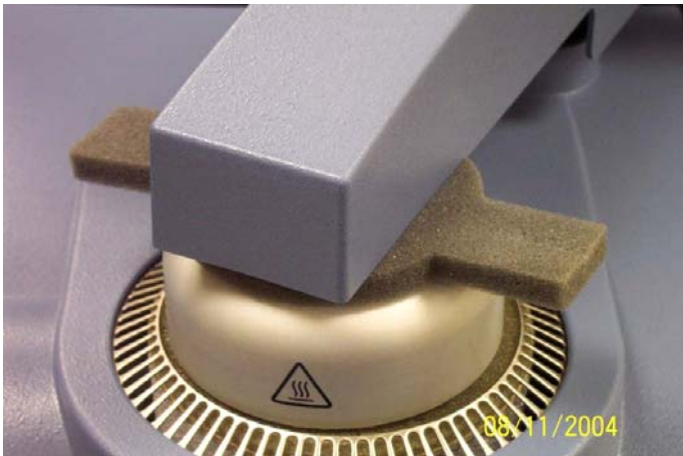
**Figure 5**

- e Press **EXIT** until you are at the main menu.  
f Press **AUTOLID** to bring the lid down over the foam covering the cell.

For Q2000:

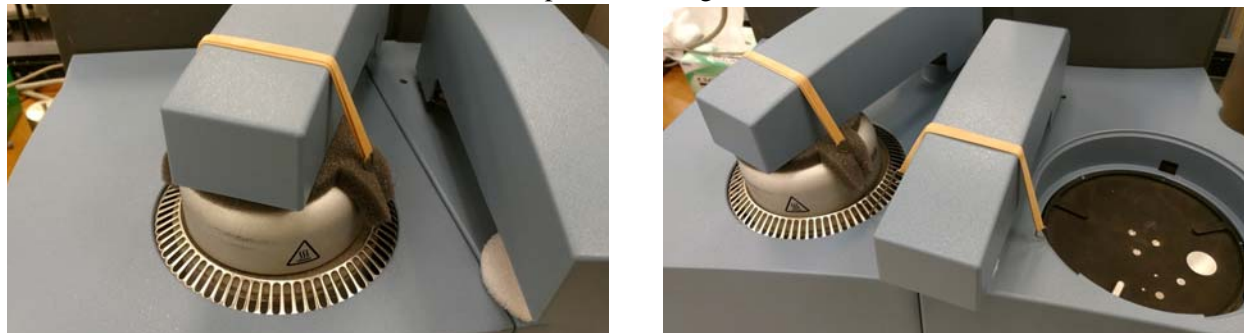
- a On the LCD screen, press **CALIB**.  
b Press the Autosampler icon.  
c Select the **MOTOR TEST** tab.  
d Press **SHIP** to move the Autosampler arm and insert the fingers into the shipping plug. See [Figure 5](#) above.  
e Press **CONTROL** to return to the control menu.  
f Press the lid icon on the left hand side of the screen. The control command should display “LID CLOSE.”  
g Press **APPLY** to close the lid.

- 10 Install the shipping foam between the Autolid outer cover and the arm.



**Figure 6**

**11** Band down the Autolid arm and Autosampler arm using the rubber band and hooks.



**Figure 7**

**12** For Q1000:

- a** Press **DISPLAY MENU** on the touch panel, then press **SHUTDOWN**.

For Q2000:

- a** Press **CONTROL** on the touch panel.
- b** Press the switch icon.
- c** Scroll down to **SHUTDOWN**.

**13** Press **APPLY**. When the instrument says it okay to shut down, turn off the power switch on the back of the instrument.

**14** Disconnect all cords, cables, and tubing to the instrument.

**15** If shipping the instrument in the reusable TA plastic shipping container:

- a** Place instrument in shipping container.
- b** Place the top portion of shipping container over the instrument. Note the direction; the “FRONT” is labeled on both the top and bottom portions of the container. Secure the latches on all of the sides.
- c** Your instrument is now ready to ship.

**16** If shipping the instrument in the cardboard shipping carton:

- a** Carefully lift the instrument and remove the feet.
- b** Place the instrument on the plastic pallet.
- c** Secure instrument to the pallet with 4 shipping bolts.
- d** Place feet and accessories into the accessory box and place the box next to the instrument on the pallet.
- e** Place the outside carton over the pallet and seal it with heavy-duty tape.
- f** Using a strapping kit, secure the outside carton to the plastic pallet.
- g** Your instrument is now ready to ship.

**TA Instruments strongly recommends using a Motor Freight Carrier!**