



VACUUM SYSTEM OPERATING INSTRUCTIONS

INITIAL START-UP PROCEDURE

1. Turn on diffusion pump cooling water.
2. Check that the vacuum valve control is in the number 1 position.
3. Turn on main power switch. The mechanical pump will start evacuating the foreline.
4. Wait a few seconds till the mechanical pump quiets down then rotate the vacuum valve control clockwise to the number 2 position.
5. When vacuum reaches 80-100 on the vacuum meter, rotate the vacuum valve control counter clockwise to the number 3 position.
6. Turn on the diffusion pump switch. Approximately 15 minutes is required for the diffusion pump to reach operating temperature.
7. When the green vacuum lamp comes on and the vacuum meter reading is in the green region the instrument is ready for operation.

REMEMBER - THE VACUUM VALVE MUST BE MOVED FROM ONE POSITION TO ANOTHER IN SEQUENCE 1-2-3, 1-2-3, 1-2-3. ALSO, THE COLUMN LEAK AND FORELINE LEAK VALVES MUST NOT BE USED UNLESS THE MAIN VALVE IS IN THE NUMBER 1 POSITION.

SPECIMEN CHANGE PROCEDURE

1. Turn emission control fully counter clockwise and turn off operation switch.
2. Rotate the vacuum valve control clockwise to the number 1 position.
3. Pull the column leak valve to admit air into the column (valve closest to column)
4. Exchange sample.
5. Rotate vacuum valve control clockwise to the number 2 position.
6. When vacuum reading reaches 80-100 on vacuum meter rotate vacuum valve control counter clockwise to the number 3 position.
7. When the green vacuum lamp comes on and the vacuum meter reading is in the green region the instrument is ready for operation. It is recommended, however, to wait another few minutes before turning on the operation switch.

REMEMBER - THE VACUUM VALVE MUST BE MOVED FROM ONE POSITION TO ANOTHER IN SEQUENCE 1-2-3, 1-2-3, 1-2-3. ALSO, THE COLUMN LEAK AND FORELINE LEAK VALVES MUST NOT BE USED UNLESS THE MAIN VALVE IS IN THE NUMBER 1 POSITION.

SHUTDOWN PROCEDURE

1. Turn emission control fully counter clockwise and turn off operation switch.
2. Turn off the diffusion pump switch. The vacuum valve should be in the number 3 position.
3. Wait for 10-15 minutes for the diffusion pump to cool.
4. Rotate vacuum valve control clockwise to between "1" and "2"
5. Turn off main power switch.
6. Push foreline leak valve to admit air into foreline.
7. Turn off diffusion pump cooling water.

Please refer to instruction manual provided with instrument for more detailed operating instructions.