

## **SPEED VAC INSTRUCTIONS - NEEDS - NOTES**

The bowl is teflon coated, so acids can be used, BUT after use, wipe out bowl with distilled water. The bowl is heated, so samples can be thawed prior to spinning. BUT do NOT leave the heater on.

### **GLASS TRAP:**

- The glass trap is 4 Liter size, but can hold only 2.5 Liters of liquid.
- The trap should be emptied at least once a week and more often if it gets full, or the vacuum is not working.
- Do NOT thaw the trap under warm water, but let it THAW overnight in the holder to the right of the apparatus. The glass trap should have 95% EtOH filled to the line, this will evaporate quicker when it is warm outside, this is about 800 mls. of 95% EtOH.
- The trap is GLASS and it WILL break!
- Rotor has 0.5 ml or 1.5 ml capability for tubes.

### **USING THE SPEED VAC:**

- When hole is closed the vacuum is off.
- Turn on speed vac (it takes about 10 seconds to get to 1750K/rpm)
- Turn pump on with toggle switch (right hand corner)
- Open valve
- Dry samples
- Close off valve
- Shut off rotor
- Shut off pump
- Bleed entire system then turn valve back to close

### **THE PUMP:**

If the speed vac gets lots of use, then change oil every month. The oil is clear, and when it gets yellowish NOT brown, change the oil.

Use a screw driver to open drain, then add less than 1 Liter of oil to pump.

### **THE GEL DRYER:**

- Use old pump
- Double trap with dry ice and acetone
- Better to use old pump then destroy new one