

### **Vigor glove box: Instruction for operators**

- a)** There are two ante chambers (“pass box”); small and big. Pump-purge is manually operated for the small chamber and automated for the big one.
- b)** Box pressure is set at maximum 3 mbar while operating. Use foot controller to adjust box pressure.
- c)** To take any glassware, substrates, other accessories inside open the suitable chamber, keep things inside chamber and close. Then pump-purge at least thrice.
- d)** Use nitrile gloves. Insert both hands into the gloves of the box. Open the door of the chamber. Take things inside. Close the door of the chamber.
- e)** Before starting any process stop circulation, change mode from “Auto” to “Manual”. Monitor O<sub>2</sub> and H<sub>2</sub>O level. Should be below 3 ppm.
- f)** If solvent has to be taken inside it has to be taken in a sealed, new bottle. Otherwise the solvent has to be degassed in a flask like Schlenk flask by bubbling N<sub>2</sub> in the Schlenk line.
- g)** The glassware, solvent bottle, other accessories etc are taken out after the process is over. If odorous chemical like a thiol is used glassware etc are taken out after 2-3 days and before taking out these are pumped-purged in the ante chamber a few times.
- h)** After the process is finished the box is purged with N<sub>2</sub> and the circulation mode is changed back to “Auto” till the O<sub>2</sub>/H<sub>2</sub>O level come down to acceptable level (<3 ppm).
- i)** Keep the chambers evacuated when not in operation.