

TDC Part III

Practical (Lab Work)



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TOPIC:- Hot-air oven

Hot-air oven

To sterilize or to dry glasswares, hot air oven is used. It is recommended always to use clean and dry glasswares in chemistry laboratory. The drying oven is designed on the principle of recirculation and convection mode of heat transfer, to achieve uniform temperature inside the oven. Air at high speed is spread inside the oven at set temperature with the help of high performance centrifugal blower. Hot air after the heat transfer to material is taken to suction of the blower which is passed over the heater coil to gain fresh heat to continue cycle of recirculation. Oven is represented in Figure 1.4 a & b.



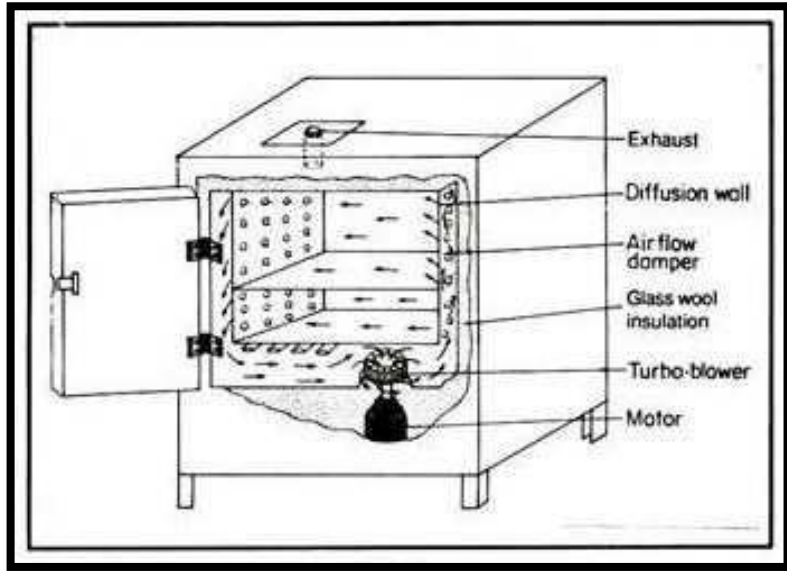


Figure 1.4. a) Hot air oven picture b) different parts of hot air oven