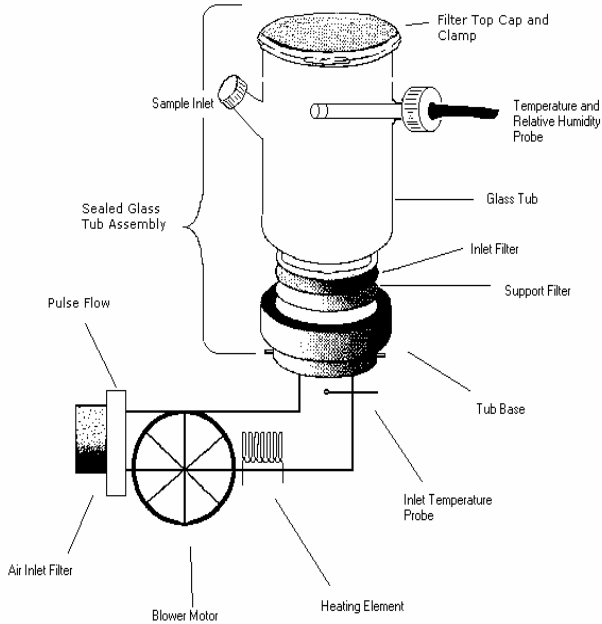

Main Elements of the Analytical Dryer

Air is drawn in through a Stainless Steel Inlet filter in the back of the instrument and blown by the centrifugal fan over a 2kW electrical heater and through a stainless steel filter gauze at the top of the dryer body. A Pulse Flow Unit (optional extra) is situated after the inlet filter, which can intermittently shut the inlet air on and off, which acts as an additional means of fluidising a difficult sample. A 5 litre sealed glass tub is shown having a tub base which attaches to the instrument by means of a bayonet fitting. There is an “O” ring seal between the tub assembly and the instrument. At the inlet of the tub assembly, there is a 60 mesh stainless steel support filter and a fine-mesh nylon filter. These filters retain the sample in the tub assembly while assuring a uniform distribution of air enters the assembly. A filter top cap is clamped on to the top of the tub by means of a clamp and seals on a silicon “O” ring which also keeps the sample particles from escaping the tub assembly. The wide range of tub assemblies which are available are designed to match the variety of sample types and drying applications.