Method compliance: ASTM D6591 and IP391.

Introduction.

The IP391(200)/ASTM D6591 methods cover the determination of mono-aromatic (MAH), di-aromatic (DAH), and poly-aromatic hydrocarbon (TRI+) contaminants in petroleum middle distillates and diesel fuels boiling in the range from 150 °C to 400 °C, for example gas oil.

The aromatic hydrocarbon content of motor diesel fuel is a factor that can affect exhaust emissions and fuel combustion characteristics, as measured by the cetane number.

Equipment

System Components:

The Agilent 1260 Infinity II LC System consists of the following components:

- isocratic Pump
- vialsampler
- multicolumn Thermostat (MCT)
- diode array (DAD), variable wavelength (VWL), Refractive Index (RID)
- solvent cabinet

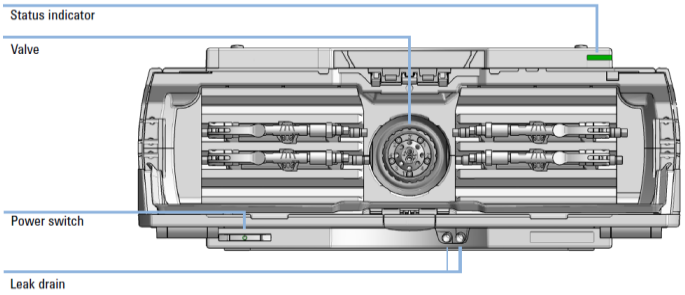

Figure 6 Overview of the Multicolumn Thermostat

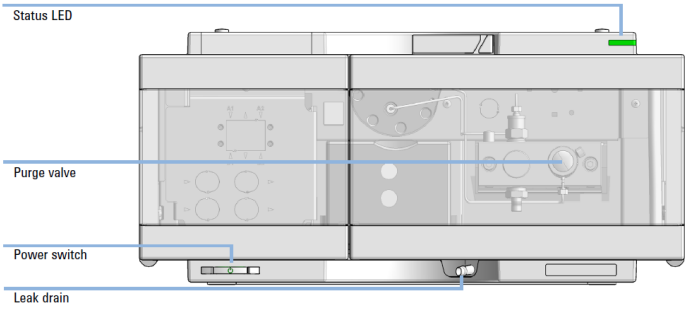

Figure 3 Overview of the pump

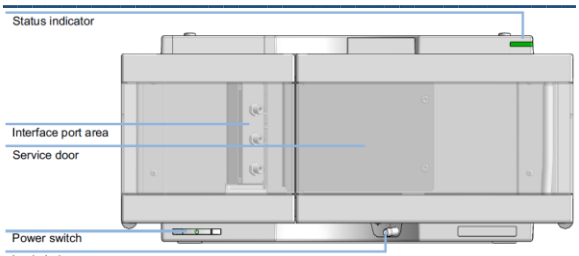

Figure 11 Overview of the detector

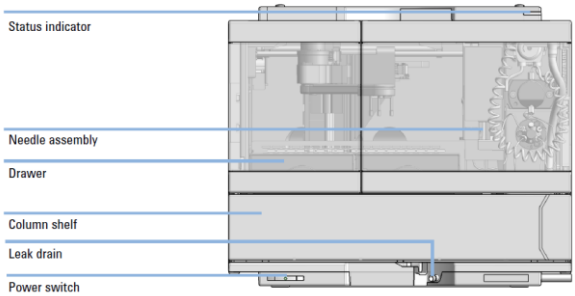

Figure 5 Overview of the Vialsampler