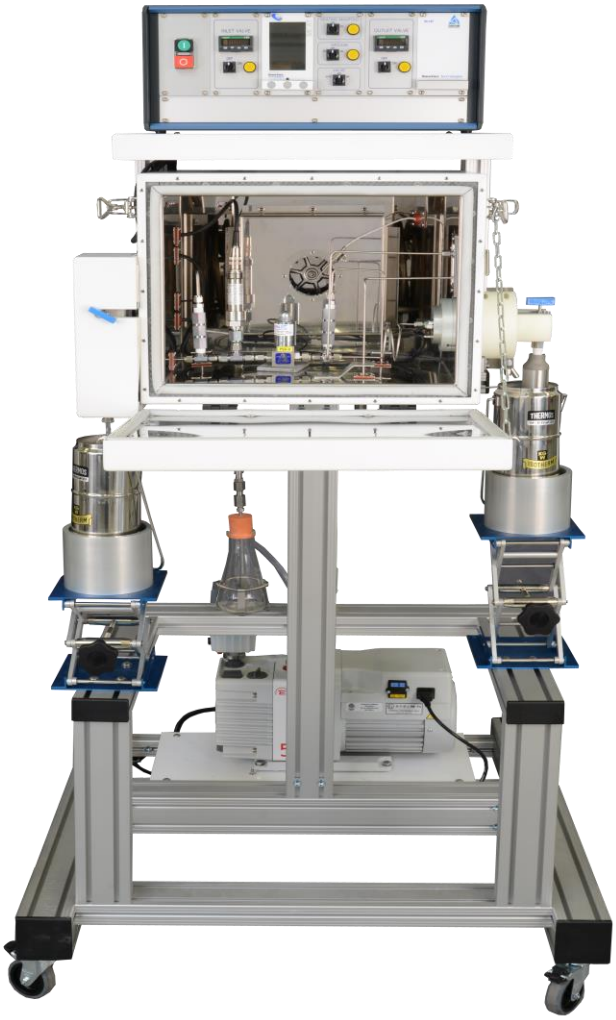
Cryogenic Distillation Unit **CDU** by Sanchez Technologies

Thermodynamics & Core Analysis Laboratory Instruments



Purpose of the apparatus

The Cryogenic Distillation Unit (CDU) is a mobile piece of equipment designed to allow the distillation of a pressurized single phase hydrocarbon reservoir fluid into a gas phase and a liquid phase, which are in a state suitable for direct chromatographic composition analysis.

The Cryogenic Distillation unit is better for the distillation of volatile oils, condensates & gas systems. The Cryogenic unit can often isolate a residual liquid from a rich gas system, which aids characterization of the heavy-end of the composition. This is because, instead of the heavy-ends being a small portion of the tail of an extended gas analysis, it can be separately chromatographically, analyzed as a liquid alongside the extended gas analysis of the gas phase.

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Features

An important feature of the instrument is that the flow path components have been Sulfinert™ treated apart from the pressure transducer. The SulfinertTM treatment reduces losses of Sulphur species due to absorption into the Stainless steel pipe work and components.

The CDU electronics and plumbing are separated, each having their own enclosures.

The enclosures are mounted on a mobile stand, along with the Vacuum pump. Two lab jacks are built into the Frame. These lab jacks allow the operator to raise and lower the supplied Dewar flasks as required.

Scope of supply

- inlet system
- cryo bulb
- gas sampler
- Dewar flask
- Set of valves and fittings
- Pressure sensor
- Vacuum pump
- Frame