

DIST D-1160 CC

Fully Computer Controlled-Boiling Analysis acc. to
ASTM D-1160

Technical Data

- ▲ Operation Temperature: max. 400°C
- ▲ Boiling Range: max. 600°C AET (depending on product)
- ▲ Operation Pressure Range: 0.1 ... 760 mmHg (Torr)
- ▲ Operation Pressure (standard): 1 mmHg (Torr)

Design Essentials

- ▲ operation through PC and flow chart (process parameters are indicated digitally and are presented in coloured curves as a diagram "parameter vs. time") – easy unit management also by less experienced operators
- ▲ user-software application operated under WINDOWS™XP
- ▲ calculation of the distillation data and monitoring and printing of the distillation curves, boiling temperatures (ACT and AET), charge temperatures, distillation rate versus the yield (vol.-%)

- ▲ recalling of distillation protocols and curves at any time
- ▲ automatic calibration of volume measuring system delivers accurate, detailed distillation data, precise volume measurement by high-precision stepper motor
- ▲ calculation of charge to be filled into the flask in accordance to the receiver temperature and the charge density
- ▲ automatic anti-foaming procedure
- ▲ automatic washing/cleaning program procedure
- ▲ sophisticated vacuum control, accuracy better than required by ASTM
- ▲ automatic shut down procedure (cooling phase, ventilation etc.)
- ▲ heating- and distillation rate automatically controlled
- ▲ detection of IBP through optical sensor
- ▲ unit is provided with safety alarms
- ▲ devices for calibration of temperature sensors and vacuum sensor
- ▲ RS 232 interface for connection to LIMS-software
- ▲ extended operation range – unit can be operated at atmospheric condition and under vacuum, e.g. pre-distillation at atmospheric & continuous distillation under vacuum acc. to ASTM D-1160
- ▲ boiling analysis of blended samples, containing light boiling products
- ▲ "supervisory"-mode for manual overruling of automatic control mode – with indication of every manual intervention in the flow chart
=> manual/semi-automatic operation of the unit (in emergency cases or for maintenance etc.)

The i-Fischer® Dist D-1160 CC is a fully computer controlled unit of turn-key design, and ready for use after installation and commissioning. The unit extends the current test method and does not limit your vacuum distillation testing options. You are able to define your own tailored program also beyond the current standard. The system is fully housed and equipped with doors in the front and rear to satisfy

safety requirements and to facilitate service aspects. The protocol is printed out simultaneously to the distillation and the distillation curves in actual boiling temperatures (ACT) and atmospheric equivalent temperatures (AET) as well as essential distillation parameters are shown on the monitor. The final data and the distillation curves are printed and stored on harddisk and/or data disks.

