

# PILODIST®

*laboratory & process technology*

## PETRODIST® 200 CC



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## **PETRODIST® 200 CC - 1 L**

Processor controlled crude oil distillation system for fully automatic operation according to ASTM D-5236 (Standard Test Method for Distillation of Heavy Hydrocarbon Mixtures, Vacuum Potstill Method).

The system is designed for unattended operation (during the distillation), the safety devices are designed accordingly. Data station for data input as well as for display and print out of all operation parameters, distillation results and distillation curve.

The distillation ensues automatically from the start to the pre-selected or detected end point. The distillate volume is automatically recorded by means of an integrated volume follower system. The volume is measured separately on every individual receiver. The unit does not contain any intermediate receiver i.e.: to avoid reblend of the distillate. The weight of each fraction is automatically taken by an integrated electronic balance.

The volume calculation is expressed as percentage corresponding to the weight and the volume of the flask charge or total recovery. The distillation curve is printed out in weight and volume percent. The software provides the possibility to include the ASTM D-2892 results from PETRODIST 100 CC into one common report (ASTM D-2892 plus D-5236) including combined distillation curve!

The fraction changes are carried out automatically, alternatively according to a pre-selected boiling temperature or distillate volume or when the receivers are filled up. The vacuum-tight fraction collector contains 12 receivers with a capacity related to the flask size. The boil up rate is controlled according to a pre-selected distillation rate in ml/min. An accurate vacuum control guarantees the required stability of the distillation pressure.

All necessary accessories will be supplied together with the system. The installation requires water, nitrogen, compressed air and electricity.

### **Technical Data:**

Flask Size:	1 L
Flask Charge:	0,3 to 0,6 L
Receiver Capacity:	12 x 500 ml
Operation Temperature:	Up to 400° C
Operation Pressure:	Vacuum down to 0.1 Torr
Final Cut Temperature:	Up to 565° C AET
Power Consumption:	5000 W
Max. Ambient Temperature:	25° C
Mains Supply:	3 x 208 – 260 V, 50 Hz (60 Hz upon request)
Dimensions (w x h x d):	1.60 x 2.20 x 0.90 m