

PILODIST®

laboratory & process technology

PETRODIST® 200 CC



Processor controlled fully automatic system for the fractionation of crude oil residues or high boiling components according to ASTM D-5236 (Potstill). This system continues the distillation with the residue from ASTM D-2892.

The system is computer controlled and designed for fully automatic operation for the fractionation of crude oil residues and higher boiling components to be performed throughout the vacuum distillation procedure ranging from 1 Torr down till 0,1 Torr. The boil-up rate is controlled according to a pre-selectable distillation rate in ml/min. As a fully automatic system it provides a vacuum reduction process in accordance with the ASTM regulation, which is initiated when a preselectable flask temperature (e.g. 300° C) is reached. The required parameters for the automatic vacuum reduction process are calculated and adjusted automatically by the system according to the actual process parameters. This procedure ensures an uninterrupted and continued procedure and shortens the duration of the whole process down to a minimum time, depending on product and set cut temperatures.

The automatic fraction collector is equipped with 12 receivers and provides IR-heating of the actual receiver in use. It is also equipped with an automatic online volume follower system to measure the volume of each fraction and to determine the distillation rate as well as an automatic weight measurement. To avoid overfilling the fraction collector turns to the next receiver when a certain level in a receiver is reached.

The volume calculation is expressed as percentage corresponding to the weight and the volume of the flask charge. The distillation curve is printed out in weight- and volume-percent.

The system requires water, nitrogen and air.

Key features:

- Computer controlled fully automatic process without any interruption
 - PC with windows based operation and evaluation software
 - continuous monitoring of distillation process and data storage
 - automatic and receiver changes to be determined by preselected cut temperature and/or receiver volume
 - fully automatic product discharge without any influence on the distillation process
 - adiabatic operation due to column heating jacket
 - cooling down process after the distillation run automatically
 - electrically driven lifting platform for flask heating
 - precise vacuum control and automatic vacuum reduction process
 - evaluation of the "final data" and printout of TBP-curve
 - several safety and alarm options available
 - automatic online volume **and** weight measurement
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Technical data

Flask size:	3, 6 10, 20 L or upon request
Flask charge:	between 30 and 60 % of falsk volume
Operating temperature:	up to 420° C (650° C AET)
Operation pressure:	vacuum down to 0.1 Torr
Fraction collector:	12 receivers, volume depending on flask size
Max. Ambient Temperature:	25° - 30°C
Mains Supply:	3 x 208 – 260 V, 50 Hz (60 Hz upon request)
Dimensions (w x h x d):	depending on flask size

Available Options:

Stainless Steel Flask
Protective Sheathing of the System
Fire Extinguisher
UPS-System

For more information consult your distributor
