



NIK ABZAR

Laboratory Instrumentation



ASTM D1160

Distillation of Petroleum Products at Reduced Pressure



Instrument introduction

The VAC DIST 401 is an easy to use ASTM D1160 Semi-automatic Vacuum Distillation Apparatus for the distillation of petroleum products.

7 inch control automates the D1160 test from beginning to end. beginner and experienced operators will find this system simple to use. The software steps you through the testing process from start up to printing of results.

Easy to understand software and easy access to all the distillation components makes performing the test as simple as possible.

This unit uses for all types of crude oil, residue or lubricating cuts distillation from boiling temperatures up to 350°C under vacuum pressure. As well as, vacuum down to 0.1 mmHg, the atmospheric equivalent temperature (AET) of 600-650°C.



Cold trap without using dry ice

immersion coolers use for Cold trap with an approximate temperature of (-30... -40 °C), mounted between the top of the condenser and the vacuum source to recover the light boiling components.



Safety

When the temperature rises above the limit (350 °C Vapor temperature Or 400 °C distilling flask temperature) According to the standard ASTM D1160 , system stops. Also this case important in terms of for more safety. vacuum can be release automatically by user in end of test or during test.



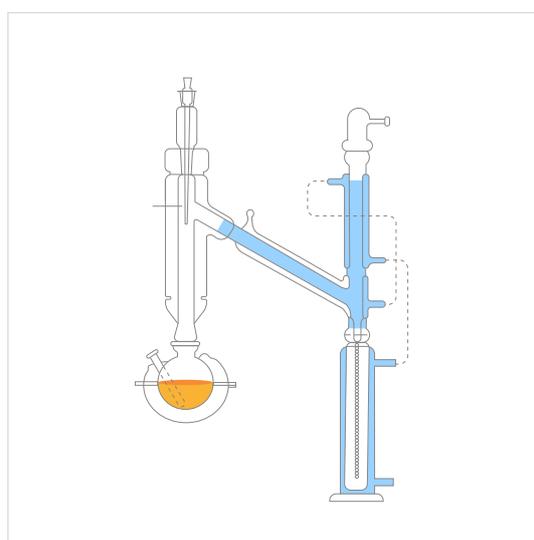
Setup parameter and show on display

The vacuum level, bath temperature and Cold trap temperature are Adjustable by the user. Vapor temperature, distilling flask temperature , Cold trap temperature , Condenser Temperature and vacuum level are displayed On 7" display.



SPECIFICATIONS

Ordering Information	
	Model VAC DIST 401 Semi-automatic vacuum Distillation
Standard Test Method	
	ASTM D1160
Performance	
Vacume control system	The ability to adjust the vacuum pressure up to 0.1 mmHg
Condenser Temperature Control:	0° to 80°C (±0.1 °C) operating temperature - liquid jacket
TEMP & Volume Measurement	It is record user by touching the screen of the monitor from IBP up to FBP
Cold trap	Cold trap to recover the light boiling components , the temperature of the trap –40 °C
Data transfer & Save	The results of each analysis can be print include (temperature, Volume, pressure, AET) and transferred to USB – number save result in system unlimited
Measurements	
Temperature	Measurement with pt-100 class A up to 450 °C
Pressure	Measurement by high precise capacitive pressure sensor
Heater	2000W power
DISPLAY	
7" touch screen	user interface with– Microprocessor control system
Physical	
Electrical Requirementsry	220 VAC - 3000 watts, 50/60 Hz
Dimensions	90 cm W x 63 cm D x 86 cm H (35.4 x 24.8 x 33.8 inches)
Weight	70 kg (155 lbs)





USB

Printer

7 inch

1-7 inch Color Display

2-Printer

3-USB Port

4-Key ON/Off

5-Coolant level

6-Light

7-Receiver

8- Heater and Elevator

9-Flask 500 ml

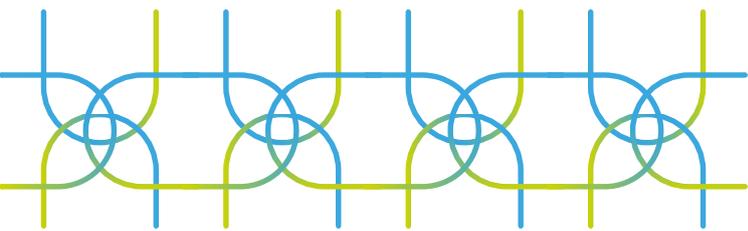
10-PT 100-Oil temp

11-Vacuum-jacketed Column

12-PT 100 glass -Vapor temp

13-Cold trap





Produce By Nik Abzar Company



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