



NIK ABZAR
Laboratory Instruments



ASTM D86

Distillation of Petroleum Products at Atmospheric Pressure

product introduction

The Petro DIST according to ASTM D86. This Apparatus for the distillation of petroleum products use for all types of Fuel, solvent and any liquid petroleum product ,As well as group (1,2,3,4).

SPECIFICATIONS

Ordering Information	
	Model Petro DIST Atmospheric Distillation
Standard Test Method	
	ASTM D86 (group 0,1,2,3,4), EN ISO 3405
Performance	
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
Data transfer & Save	The results of each analysis can be print include (temperature, Volume, pressure) and transferred to USB – number save result in system unlimited
Measurements	
Temperature	Measurement with pt-100 class A up to 450 °C
Ambient Pressure	Built-in pressure sensor; Range: (550 to 800 mmHg)
Heater	1000W power
DISPLAY	
10" touch screen	user interface with– Microprocessor control system
Physical	
Electrical Requirements	220 VAC - 2000 watts, 50/60 Hz
Dimensions	44 cm W x 65 cm D x 60 cm H (17.3 x 25.6 x 23.6 inches)
Weight	52 kg (114 lbs)





ASTM D1160

Distillation of Petroleum Products at Reduced Pressure

product introduction

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

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 hight 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)





ASTM D93

Flash point Close cup tester semi automatic

product introduction

Closed Cup Flash Point Tester measures flash points between 40 to 370°C.

This device uses optimized software to control the heater well and adjust the mixer speed between 10 and 250 rpm. It is also equipped with a cooling fan to Accelerate the execution of consecutive tests.

Our Closed Cup Flash Point Tester is suitable for petroleum products, and quality inspection.

SPECIFICATIONS

Performance	
Methods	• ASTM D93 A, B, C • ISO 2719 A, B, C • EN 22719 A, B, C • IP 34 A, B, C • DIN 51758
Heater	Electric with manual control
Stirrer	Electric up to 250 rpm
Cooling	Cooling Fan
Ignition Type	Gas
Power	1500 W
Frequency	50/60 Hz
Main Voltage	220 V





SSI conforms to ASTM D6278 & D7109

Standard Test Method for Shear Stability of Polymer Containing Fluids Using a European Diesel Injector Apparatus



product introduction

Shear Stability Tester is used to evaluate the shear stability of polymer containing oils. The tester subjects the oil under test to mechanical shear over a number of cycles.

It is suitable for evaluation of the shear stability of polymer-containing fluids by measuring the percent viscosity loss at 100°C of polymer-containing fluids. The viscosity loss reflects polymer degradation due to shear at the nozzle.

SPECIFICATIONS

Performance	
Pump	BOSCH PE 2A 90D 300/3S 2266
Nozzle	BOSCH DN 8 S2
Nozzle holder	BOSCH KD 43 SA 53/15
Motor	925± 25rpm
Nozzle pressure	13~18MPa
Flow rate	170±5ml/min
Circulating pump	10L/min
Cooling method	Chiller
Temperature control range	10~35°C ± 0.1°C
Working Temperature	0~60°C
Relative humidity	≤80%
Rated voltage	220V , 50Hz
Total power	1500W
Digital timer	records the time of the test with a beep alarm
Stroke	counter





ASTM D721

Petroleum Wax Oil Content Analyzer

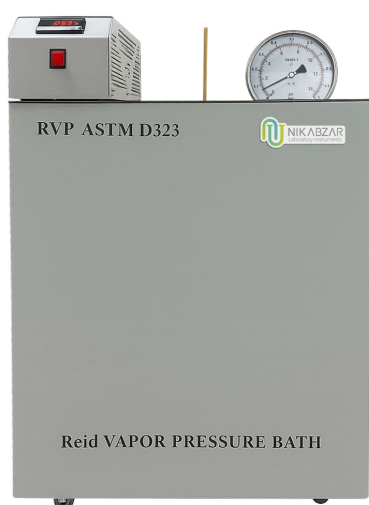
product introduction

Petroleum Wax Oil Content Analyzer conforms to ASTM D721 Standard Test Method. This device consists of two unit, 1) cooling bath temperature of -35 degrees 2)Evaporation Assembly, consisting of an evaporating cabinet thermostatically controls the temperature of +35 C by SSR and has four air outlet nozzles, each can be adjusted.

SPECIFICATIONS

Performance	
Methods	• ASTM D721
Cooling Bath	- 34.5 ± 1 °C
Evaporation Assembly	+ 35 ± 1°C
Air Pressure Regulator	YES
Sensor temperature	PT100 Class A
Air Flowmeter	Omega FLDA3518S
Filter Stick	10 µm to 15 µm maximum pore diameter
Main Voltage	220 V





ASTM D323

Reid Vapor Pressure

product introduction

Reid Vapor Pressure Bath conforms to ASTM D323 Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method). stainless steel test cylinders for vapor pressure tests of liquid petroleum products. The heating output adopts solid-state relay and has 2 position for test.



SPECIFICATIONS

Performance	
Methods	• ASTM D323
Heater	Electric with PID control include mercury thermometer 18°C
Stirrer	2800 rpm
Liquid and vapor chamber	stainless steel According method
pressure gauge	0-1 bar (0-15 psi)
Power	1500 W
Frequency	50/60 Hz
Main Voltage	220 V





ASTM D524

Ramsbottom Carbon Residue

product introduction

The Ramsbottom Carbon Residue Apparatus For the determination of the amount of carbon residue after evaporation and pyrolysis of an oil and provide indication of relative coke-forming propensity according to ASTM D524.

SPECIFICATIONS

Performance	
Methods	ASTM D524
Furnace	HEATER with PID control UP to 550 ± 5 °C Cast iron block furnace equipped with 5 wells, 63.5 mm diameter.
Control Bulb	stanles streeel 24 ± 1 gr
thermometer	Glass
syringe	sample charging syringe 10 ml
bulb	Type K
Power	2500 W
Frequency	50/60 Hz
Main Voltage	220 V





ASTM D130

Metal Bath Copper Strip Corrosion Tester



product introduction

Solid block Bath Copper Strip Corrosion Tester conforms to the ASTM D130 Standard Test Method for Corrosiveness to Copper from Petroleum Products by Copper Strip Test and ASTM D4048 Standard Test Method.

Our copper corrosion available in 4 and 8 position bomb bath models. This tester is suitable for testing aviation gasoline, jet fuel, motor gasoline, natural gasoline, or other hydrocarbons.



SPECIFICATIONS

Performance	
Methods	ASTM D130, D4048
Heater	Electric with PID Control
Number of simultaneous tests	4 Copper Strip Corrosion Test Bombs
Bath	Metal Block
Alarm	Yes after 3hrs with counter timer
Temperature Range	Ambient to +200°C, with precision 0.1°C
Power	750 W
Frequency	50/60 Hz
Main Voltage	220 V





ASTM D97 & D2500

Pour point & Cloud point tester

Manual refrigerator, liquid bath, 4 temperatures, 12 places

product introduction

Manual refrigerator, liquid bath, 4 temperatures, 4 places

4 × small bath with 3 wells each for accommodation of glassware and a small 1 for thermometer/pouring medium liquid.

1st position: ambient to 0°C.

2nd position: ambient to -18°C.

3rd position: ambient to -33°C.

4th position: ambient to -51°C.

SPECIFICATIONS

Performance	
Methods	ASTM D97, D2500
refrigerator	Motor compressor system with CFC free gases.
Number of simultaneous tests	4 temperatures, 4 places
Bath	liquid bath
Standard block temperature configuration:	1st position: ambient to 0°C. 2nd position: ambient to -18°C. 3rd position: ambient to -33°C. 4th position: ambient to -51°C.
Dimensions	width 82 cm-depth 60 cm-height 108 cm
Power supply	220 V
Frequency	50/60 Hz
Weight	150 Kg





ASTM D1319

Manual Apparatus for Hydrocarbon Types in Liquid Petroleum Products

product introduction

Manual Apparatus for Hydrocarbon Types in Liquid Petroleum Products, Fluorescent Indicator Adsorption (FIA), 2 places



SPECIFICATIONS

Performance	
Methods	ASTM D1319
column	Standard column, 2 pcs.
Number of simultaneous tests	2 places
source	UV light source.
Dimensions	35 × 50 × 185 cm
Main Voltage	220 V





ASTM D1298

Digital densimeter bath, manual instrument

product introduction

ASTM D1298

Density meter

Manual, liquid bath,

PID control temperature

SPECIFICATIONS

Performance	
Methods	ASTM D1298
Temp range	15 up to 100±0.01 °C.PID Control
bath	Internal bath made of stainless steel with capacity of 11 litres approx., drain
Heater	1000w
TEST tube	Support with 3 holes 51 mm diameter for 50 × 310 mm test tubes.
thermometer	Pt100 Class A
Power consumption	3000 W
Frequency	50/60 Hz
Main Voltage	220 V





ASTM D5968&6594

Corrosiveness and Oxidation Stability Test Apparatus

product introduction

The diesel engine oil corrosion test device consists of a dry bath made of an aluminum block that provides a constant and stable temperature according to the standard with an accuracy 0.1 °C of a degree Celsius. This device also includes ASTM D5968& D6594 & D4636 standard.



SPECIFICATIONS

Performance	
Methods	Methods
BATH	Solid aluminum block design 121 °C& 135 °C
TEST cell	4 sample testing capability
temperature	Microprocessor temperature control with digital display
Temperature Control Stability	±0.1°C
Air Flow Rate	Omega FLDA3430ST UP 150ml/min
Power	1500 W
Frequency	50/60 Hz
Main Voltage	220 V





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