TRYTE TECHNOLOGY (H.K.) LIMITED
Shanghai Trueview Scientific Instrument Co.,LTD

1、TR-TC-510D Pour Point&Cloud Point Tester

Summary：

The instrument is designed and made as per ASTM D97,ASTM D2500, ASTM D5853;GB/T3535 Standard Test Method for Pour Point of Petroleum Oils and GB/T6986 Test Method for Cloud Point of Petroleum Oils in the National Standard of People's Republic of China. It is suitable to determine pour point and cloud point of petroleum oils.

Main technical features：

1. The working table is stainless steel material. It has two chambers (chamber I and chamber II) .Each chamber equipped two cooling baths. The temperatures of these two baths are the same. All cooling baths can determine pour point and cloud point.
2. It is no need to use coolant in the chamber. The cooling speed is fast and cooling efficiency is high. The temperature controller I controls the temperature of chamber I and temperature controller II controls the temperature of chamber II. The minimum temperature of chamber II can reach -70℃ and temperature control precision is ±1℃.
3. The instrument adopts bench structure, concise design and easy to use.

Main technical specifications：

1. Power supply: AC 220 V±10%, 50 Hz;
2. Temperature control of cooling chamber:
   (1) Chamber I: Ambient to -51 ℃, ±1 ℃, temperatures of two cooling baths the same.
   (2) Chamber II: Ambient to -65 ℃, ±1 ℃, temperatures of two cooling baths the same.
3. Refrigeration system: New type refrigeration compressor
4. Ambient temperature: ≤30 ℃
5. Relative humidity: ≤85%
6. Maximum power consumption: 1500 W
7. Dimension: 800mm×580mm×400mm

Packing List:

No.	Item	Unit	Qty	Remarks
1	Thermometer（-38～50℃）scale division 1℃	Piece	1	GB / T 514 ID: GB-37
2	Thermometer（-80～20℃）scale division 1℃	Piece	1	GB / T 514 ID: GB-36
3	Pour point tube plugs	Piece	4	
4	Pour point tubes	Piece	4	
5	Bath cover	Piece	4	
6	Washers (Φ35 × 3.1 o-ring)	Piece	4	Pour point tube positioning ring
7	Round dish	Piece	4	Felt gasket
8	15A fuse（Φ5×20）	Piece	2	
9	Fixed mount	Piece	1	
10	Stop collar for thermometer(1#)	Piece	2	

2、 TR-TC-F10Z-1 Automatic Solidifying Point & Pour Point Tester

Summary

This Automatic Solidifying Point&Pour Point Tester is made as per standards GB/T 510,ASTM D852 Standard Test Method for Solidifying Point of Petroleum Products, GB/T3535,ASTM D97 Standard Test Method for Pour Point of Petroleum Products. It is a kind of high automatic instrument with advanced design. It is used to determine the solidifying point and pour point of light oils which have good flow ability and low viscosity such as gasoline, light diesel oil and transformer oil. It can be widely used in oil refineries, oil stations and other relevant institutions.

I. Main technical features

1. It adopts SCM as the core control system. Colored touch screen. It can track and display the real-time temperature, and simulate the test status intelligently.
2. It adopts high accuracy detecting sensor and semiconductor refrigeration technology. The test precision is high.

3. It uses little mass of oil sample. The test is rapid(5~10 min for one test). The test procedures are completed automatically are injecting the sample. It has good stability and repeatability. The result is reasonable. The test result can be printed after test.

4. The instrument needs less sample for the determination. The intelligence is high. It can do the test automatically after the sample is added. A micro-printer is equipped.

II. Main technical specifications

1. Applicable oils: The oils with solidifying point at -60℃～10℃
2. Precision: ±1℃ (HWY-15 Low-temperature circulatory water bath is needed when the solidifying point is lower than -50℃)
3. Display resolution: 0.1℃
4. Maximum cooling depth: Temperature difference ≥65℃
5. Cooling speed: 15min temperature difference≥60℃
6. Requirement for cooling water: Pressure：（4.9×10～49×105）Pa
   Flow rate：1.5L/min
7. Power supply: AC220V±22V，50Hz
8. Maximum power consumption: 250W
9. Sample dose: 20ml per time
10. Working environment:
    Ambient temperature:（25±10）℃, RH ＜85%
11. Dimension: 460mm×360mm×470mm
12. Net weight: 26Kg

III. Optional accessories

Low temperature water bath： HWY-15 Low-temperature circulatory water bath

Packing List:

No.	Item	Unit	Qty	Remarks
1	Printer paper	Roll	2	
2	Fuse (Φ5 × 20,10A)	Piece	2	
3	Power line (250V / 6A)	Piece	1	
4	Circulating water pipe and drain line	Meter	5	Cut when user needed

3、 TR-TC-F10Z-2 Automatic Solidifying Point& Pour Point Tester

Summary

TR-TC-F10Z-2 Automatic Solidifying Point&Pour Point Tester is made as per standards GB/T 510 Standard Test Method for Solidifying Point of Petroleum Products, GB/T3535 Standard Test Method for Pour Point of Petroleum Products. It is used to determine the solidifying point and pour point of the petroleum products which have high pour points, solidifying points and viscosity such as dark oils and crude oils. It can be widely used in oil refineries, oil stations and other relevant institutions.

I. Main technical features

1. It adopts high performance SCM technology as the control system. It can do tests and print the result automatically.
2. Spectrum measurement. High sensitivity.
3. Man-machine dialog menu. English display.
4. Double unit sample measurement. It can do two samples at a time.

II. Main technical specifications

1. Applicable oils： The oils with solidifying point at -30℃～50℃
2. Temperature range： -45℃～+100℃
3. Resolution： 0.1℃
4. Temperature sensor： Imported Pt 100, stainless steel probe. Built-in temperature calibration.
5. Heating mode： Electric heating unit. Maximum power 500 W. Controllable.
6. Slopping way： Automatic. The angle is digitally controlled.
7. Measuring mode： Spectrum measurement
8. Cooling system： Imported compressor
9. Display： 5.6 inch colored touch LCD screen.
10.Temperature calibration： Automatic and programmable.
11. Date saving： 100 groups of test results
12. Power supply： AC220V, 50Hz，maximum power consumption 1000W
13. Working ambient temperature： 10℃～40℃。
14. Storing ambient temperature： 0℃～50℃。

15. Dimension： 460 ㎜×360 ㎜×470 ㎜

16. Net weight： 26kg

Packing List:

No.	Item	Unit	Qty	Remarks
1	Printer paper	Roll	2	
2	Fuse (Φ5 × 20,10A)	Piece	2	
3	Power line (250V / 6A)	Piece	1	

4、 TR-TC-510F1 Multifunctional Low-temperature Tester

It is suitable to make determinations of **pour point, cloud point, solidifying point and cold filter plugging point** of petroleum products.

（new style）

Summary

TR-TC-510F1 Multifunctional Low-temperature Tester is designed and made as per test standards GB/T 510,GB/T 3535,GB/T 6986 and SH/T 0248 of People's Republic of China. It is suitable to make determinations of pour point, cloud point, solidifying point and cold filter plugging point of petroleum products. This instrument can also be used to do these tests according to ASTM D97 and ASTM D2500.

I. Main technical features

1. The instrument adopts intelligent temperature control system, which can display the temperature of cold bath in real time. The temperature setting and control parameter adjustment are convenient, and the temperature control precision is high.

2. It is a multifunctional instrument which can be used to determine pour point, cloud point, solidifying point and

cold filter plugging point of petroleum products.

3. Metal bath, refrigeration speed, uniform temperature, eliminate the insecurity of liquid bath.

4. It has the function of automatic protection. If the high temperature of any cold bath is abnormal, the instrument will automatically cut off the working power of the heating tube to avoid damaging the instrument.

5. Floor model. It is equipped with four-place wheels at bottom. Convenient to move.

II. Main technical specifications

1. Power supply：AC（220±10%）V 50Hz

2. Power consumption： less than 1700W

3. Cold bath temperature control:

(1)Chamber I: -17℃～0℃,accuracy±0.5℃, temperatures in two cold baths are the same.

(2)Chamber II: -34℃～-17℃,accuracy±0.5℃,temperatures in two cold baths are the same.

(3)Chamber III: -51℃～-34℃,accuracy±0.5℃,temperatures in two cold baths are the same.

(4)Chamber IV: -70℃～room temperature, accuracy±0.5℃,temperatures in two cold baths are the same.

4. Refrigerating method: Compressor refrigeration

5. Suitable temperature：15℃～28℃

Relative humidity： ≤85%

6.Dimension： 810 ㎜×500 ㎜×840 ㎜（L×W×H）

7. Total weight：100kg

5、TR-TC-510G Low Temperature Tester

Introduction:

This instrument is newly designed and made as per national standard of People's Republic of China GB/T510 Standard Test Method for Solidifying Point of Petroleum Oils, GB/3535 Standard Test Method for Pour Point of Petroleum Oils, GB/T6986 Standard Test Method for Cloud Point of Petroleum Oils and SH/T 0248-2006 Standard Diesel and Domestic Heating Fuels - Determination of Cold Filter Plugging Point.

I. Main technical features

1. The material of workbench is stainless steel. It has two cooling baths in one chamber. The two cooling baths are the same in temperature.

2. It adopts special technology. It is no need to use cooling liquid in cold chamber. The cooling rate is fast and efficiency is high. The temperature in cooling baths is uniform and it can reach -70℃. The precision is ±0.5℃.

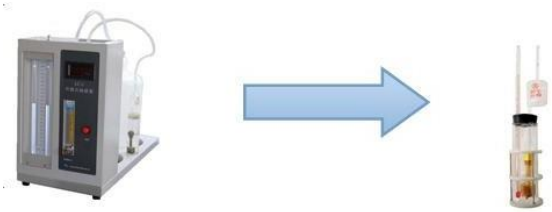
3. The instrument adopts bench structure. The design is simple and easy to use. Operator can do solidifying point, pour point, cloud point test as long as buying this equipment.

II. Main technical specifications

1. Power supply： AC（220±10%）, 50Hz
2. Working chamber： Two test baths in one chamber. The temperatures are the same.
3. Temperature range： -70℃～0℃
4. Temperature control accuracy： ±0.5℃
5. Refrigeration： New-type refrigeration compressor
6. Ambient temperature： 15℃～35℃
7. Relative humidity： ≤85%
8. Power consumption： ≤1000W
9. Dimension：620mm×460mm×340mm
10. Net weight: 50kg

LC-2 Cold Filter Plugging Point Filter

The instrument is designed and made as per the Industry Standard of People's Republic of China *SH/T 0248-2006 Standard Diesel and Domestic Heating Fuels - Determination of Cold Filter Plugging Point.* Being equipped with refrigeration bath and other accessories, it can be used to determine cold filter plugging point of distillate fuels.



I. Main technical features

1. It adopts integral structure. Easy to use and good-looking.
2. The buzzer will sound after the completion of suction filtration of the instrument.
3. It adopts digital display technology, easy to set data, stop timing when the timing time arrives.
4. Equipped with TR-TC-510G, it can realize Cold Filter Plugging Point test.

II. Main technical specifications

1. Power supply: AC 220V±10%, 50 Hz
2. Pumping pressure: 1961 Pa (200mm H_2O ±1mm H_2O)
3. Test cup: There is a mark line at 45 ml of the cup.
4. Filter assembly: It is made of cooper; Size of hole on the filter sieve is 45 μm (330 meshes)
5. Working environment:

   Ambient temperature: (15～+35)℃

   Relative humidity: ≤85%
6. Power consumption: ≤150W
7. Dimension: 550mm×250mm×400mm

Product Package: