Automatic Reduced Pressure Distillation Tester　Model ADM-1RP

[Overview]

The automatic reduced pressure distillation tester, ADM-1RP, automatically performs distillation test of residue oil at atmospheric pressure and lubricating oil, etc. based on the "Test Method for Distillation of Petroleum Products" under ASTM D1160, JIS K2254, etc.
In designing this tester, many advantages in temperature control of our Automatic Distillation Tester at Atmospheric Pressure, Model ADM-1, which have been appreciated by many users, have been introduced to pressure control system in order to control the distillation speed so stably.
In the same way, advanced technology of Model ADM-1 has been also applied to other control systems of this tester, and all the operation conditions can be set just on the display.
Test results can be output in versatile forms thanks to the advanced data processing function.

[Features]

- **Compact and light-weight**
  This tester is a space-saving type integrated with its built-in vacuum pump, which can be easily taken out of the tester for easy maintenance and moving.
- **Versatile display on the LCD**
  Screen for condition setting is available for 12 samples. Test conditions can be selected and set on a menu screen. Test progress can be confirmed and data processing mode can be selected on the display.
- **Alert display**
  More than 20 error messages are available as alert for operation error, inadequate input, mechanical or electrical error, etc.
- **Safety function**
  Distillation is automatically stopped by detecting abnormal distillation temperature or distillation speed, or pursuant to the temperature inside a flask and pressure variation, etc. When the reduced pressure is recovered to normal pressure, an alarm sounds when the temperature inside a flask is more than 93°C.
- **Highly precise distillation curves**
  Clear and accurate distillation curves can be drawn with the actually measured temperature and the temperature converted to normal pressure.

[Specifications]

Measuring range	0 to 400°C (corresponding to the JIS B7410 GUM49 thermometer)
Temperature display	Distillation temperature, temperature inside a flask, condenser tube temperature & receiver chamber temperature; To be displayed at 0.1°C unit
Temperature sensor	Special type platinum resistance sensor
Pressure range	100mmHg or lower up the capacity of vacuum pump
Vacuum pump	120L/min. displacement
Distillation speed	6 to 8 mL/min.
Data display	LCD of 40 characters x 16 lines: Such screens of the names of 12 programs, condition setting, test progress and data processing, etc. can be displayed.
Data output	Thermal graphic printer (110mm paper width): With monitoring distillation status simultaneously, Output by report form of 1% data and distillation curve
Test end setting	To be selected from vol. or temp.
Alert display	Available for operation error, inadequate setting, failure, etc.
Safety function	Protection for pressure recovery operation, etc.
RS-232C output	2 ports equipped (for plotter and PC)
Heater	Nichrom heating element, 1kW
Refrigeration of heater	Cooling by fan with timer
Condensation tube temperature	To be controlled by warmed water circulation from a built-in tank
Power supply	100V AC, 50/60Hz, 10A + 10A (Supplied with an outer transformer for local voltage)
Dimensions and weight	600(W) x 520(D) x 880(H) mm, Net approx. 65kg (including a vacuum pump)

* Specifications are subject to change without prior notice according to technical improvement.

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