Automatic Distillation Testers – Performance Comparisons

Item	ADM-2E	PAC OptiDist	Another maker
Testing methods	JIS K2254, K2421, ASTM D86	Same as left	Same as left
Measuring range	Room Temp. to 300ºC (DIST-7) Room Temp. to 400ºC (DIST-8) Room Temp. to 300ºC (BTX)	0 to 450ºC	Room Temp. to 300ºC (DIST-7) Room Temp. to 400ºC (DIST-8) Room Temp. to 400ºC (BTX)
Temperature sensor	Platinum resistive element thermometer	Same as left	Same as left
First drop/Liquid level detection	Photoelectric detector	Same as left	Same as left
Distillation speed	4.5mL/min., 9.0mL/min.	2 to 10 mL/min.	2 to 9 mL/,on.
Heater	Nichrome-wire heater	Sheathed heater	Nichrome-wire heater
Cooling of heater	Time limit cooling by cooling fan	Cooling by cooling fan	Cooling by cooling fan
Cooling system for receiver room and condensation tube	By Pertier element (electronic thermostat control) and water cooling circulation method	Cooling medium (Ethylene Glycol) is used.	By Pertier element (electronic thermostat control) and metal block method
Temperature of receiver chamber	15 to 40ºC (possible up to 60ºC)	0 to 40ºC	0 to 69.9ºC
Temperature of condensation tube	0 to 60ºC	0 to 65ºC	0 to 69.9ºC
Display panel	LCD	TFT-LCD color	LCD
Input key	Push switches	Touch-keys on the screen	Switch panel
Printer	Graphic printer	Option	Thermal printer
USB port	Nil	3 ports	Nil
RS-232C port	2 ports	1 port	1 port
Eathernet	Nil	RJ45	Nil
Barometer	Built-in	Built-in	Option
Receiver chamber mechanism	Total receiver chamber, including cylinder, can be purged by noncombustible N_2 gas.	Nil	Nil
Fire extinction mechanism	Injection of CO_2 gas by ignition fuses at 3 positions.	Injection of CO_2 gas by flame detectors at 2 positions	Injection of CO_2 gas by ignition fuse
Earthquake detection mechanism	Built-in (to be tripped at the seismic intensity level 5)	Nil	Nil
Dry point function	Built-in	Option	Option for automatic function
Volume-check function	Distillation in a short time for minimum 50mL is possible.	Nil	Nil
Dimensions	46W x 53D x 59H cm	44W x 57D x 65H cm	40W x 52D x 71H cm
Weight	65kg	68kg	55kg