

## APPARATUS

CODE	PART NAME	REMARKS
ATG-00-013	<b>atg-8l</b>	Tag Closed Cup Flash Point Tester, Metal Bath Model, External Chiller excluded
ATG-00-014	<b>atg-8w</b>	Tag Closed Cup Flash Point Tester, Water Bath Model

## STANDARD ACCESSORIES

CODE	PART NAME	Qty	REMARKS
ATG-02-411	Test Cup for Tag	1	
210-00-061	O-Ring, G-45	1	For Test Cup
320-00-035	Thermofuse	1	Pack of 5, with Insulating Tube.
----	Gas Hose $\phi 9 \times \phi 16$ , 1.5m, with Hose Bands	1	
ABL-01-401	Windscreen for abl-8/atg-8	1	
----	Braided Hose with Wire bands, 1.5m	1	For atg-8w only
----	Drain Hose with Hose Band	1	For atg-8w only
ATG-04-021	Flow Control Valve	1	For atg-8w only
210-02-191	Insulated Tubing, 2m	2	For atg-8l only
170-01-051	Hose Band, SPN-8	4	For atg-8l only
MPC-02-032	AC Power Cord	1	3.0m, For 100 to 120V
MPC-02-033			2.5m, For 220 to 240V
----	atg-8w/l Manuals	1	Manuals for atg-8w and atg-8l.

## OPTIONAL ACCESSORIES

CODE	PART NAME	REMARKS
070-00-068	Printer, BS2-80TS	Prints out test data and instrument settings.
070-00-281	Mini USB Keyboard	Sample ID entering
	CHILLER	For atg-8l only, Temperature range +5 to 55°C

## SUGGESTED SPARES for 2 YEARS

CODE	PART NAME	Qty	CODE	PART NAME	Qty
ATG-02-411	Test Cup for Tag	1	ABL-01-003	Electric Igniter, EL-8	2
210-00-061	O-Ring, G-45	1	ATG-04-031	Temperature Sensor for atg-8	1
320-00-035	Thermofuse	1	ABL-01-012	Flash Detector for abl-8/atg-8	1

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# TANAKA Automatic Petroleum Tester

## AUTOMATED TAG CLOSED CUP FLASH POINT TESTER

atg-8w/atg-8l



All New

Model atg-8 series is the automated Tag Closed Cup flash point tester from Tanaka. Based on 45 years experience of manufacturing the automated flash point testers, innovative 8<sup>th</sup> generation series has been released. The theme of 8<sup>th</sup> generation is "Ergonomic, Versatile and Premium".

- ERGONOMIC COLOR-COORDINATED DISPLAY FOR HIGH VISIBILITY FOR EVERYBODY (UNIVERSAL DESIGN) AND INTUITIVE SWITCH OPERATION.
- ENHANCED VERSATILITY INCLUDING USB PORT FOR OPTIONAL FLASH MEMORY OR KEYBOARD, PASSWORD PROTECTION AND DATA STORAGE.
- ALL-IN-ONE CHASSIS DESIGN: COMPACT, LIGHT-WEIGHT AND PREMIUM EXTERIOR DESIGN.
- CONFORMS TO STANDARD TEST METHOD (ASTM D56, IP304)

### SINGLE ACTION SETTING

The cup cover is permanently mounted on a swing-arm assembly, which allows an easy handling of the test cup cover. It makes free from handling the hot cup cover after completing a test.

The swing arm assembly can be lifted up to vertical position for easier test cup cleaning.

### EASY OPERATION

Select a test mode and enter the expected flash point; while the instrument executes the test, you are free to do other lab work. The instrument follows the exact procedures prescribed in the test method, and the completion of the test cycle is signaled by beeps. The test result is brightly shown on the color LCD module.

### INTERCHANGEABLE IGNITION SOURCE

atg-8w/atg-8l is equipped with both gas and electric igniter as the ignition source. It only takes a few minutes to switch from gas to electric or vice versa.

### DRAFT PROTECTION SHIELD COVER

A FM4910 conforming cover insures the flame integrity. This material shall meet the numerical criterion of each index. (1)FPI(Fire Propagation Index) $\leq 6$  (2)SDI(Smoke Damage Index) $\leq 0.4$

### DATA HANDLING

The unit is equipped to store up to 200 successive test results and export to an optional printer or to a LIMS through an RS-232 port or USB memory.

### USB PORT

A USB port allows connecting USB keyboard for easy entering sample name and connecting USB flash memory for data copy to a PC or test conditions/parameters copy to the tester.



### COMPACT DESIGN & ENERGY EFFICIENT

atg-8l uses Peltier Cells for sample cooling/heating. Just a small chiller with water suffices the cooling requirement. No methanol is required.

A control part and a test part are put into one body which culminated in achieved in the light weighting of the unit. A liquid-cooling metal bath model and conventional water bath model are available by different measurement temperature range.

### SPECIFICATIONS

<b>TYPE</b>	All –in one, microprocessor controlled
<b>TEST STANDARDS</b>	ASTM D56
<b>MEASURING RANGE</b>	atg-8w: Ambient to +95°C atg-8l: -20°C to +70°C at cooling medium of 10°C 20°C to +95°C at cooling medium of 50°C
<b>MEASUREMENT MODES</b>	ASTM CRM, ASTM Normal, ASTM SPE (search), ASTM Rapid and User custom
<b>BATH</b>	atg-8w:Water atg-8l: Metal Block
<b>SAMPLE COOLING/HEATING</b>	atg-8w:by Plate Heater/by by replacing Bath Liquid atg-8l: by Peltier Devices
<b>DISPLAY</b>	5.7 inch (117 x 88mm) color LCD with LED back light
<b>TEMPERATURE SENSOR</b>	PT-100 in stainless steel sheath
<b>FLASH DETECTOR</b>	CRC Thermocouple
<b>IGNITION SOURCE</b>	Gas ignition with automatic lighting or electric ignition. Interchangeable
<b>BAROMETRIC CORRECTION</b>	Automatic correction by built-in barometric pressure sensor
<b>I/O PORT</b>	RS-232C = 1 channel (for PC or Optional Printer) USB=1 channel (for USB keyboard or USB Flash Memory)
<b>SAFETY SHUTDOWN</b>	Automatically shuts off and the problem is reported by buzzer and display, in case: (a) EFP+10°C or 95°C is reached, (b) temperature sensor is found defective, (c) flash detector is found defective, (d) thermofuse is blown, (e) electric Igniter is blown, (f) built-in battery is found drained out, (g) test cover is not set in place, (h)control computer runs away (no display)
<b>GAS SUPPLY (When Gas Ignition is used)</b>	LP gas or natural gas (Max. pressure:10kPa)
<b>POWER SUPPLY</b>	100/120VAC or 220/240 VAC, 50/60Hz
<b>POWER CONSUMPTION</b>	atg-8w: 500VA MAX. atg-8l: 250VA MAX.
<b>ELECTRICITY CONSUMPTION</b>	atg-8w: 40Wh for 1 test (about 30 min), 15.12gCO <sub>2</sub> (@ 0.378kgCO <sub>2</sub> /1kWh) atg-8l: 30Wh for 1 test (about 30 min), 11.34gCO <sub>2</sub> (@ 0.378kgCO <sub>2</sub> /1kWh)
<b>AMBIENT TEMP. RANGE</b>	10°C to 35°C
<b>DIMENSIONS &amp; WEIGHT</b>	230mm (W) × 470mm (D) × 390mm (H) 17kg

### CHILLER REQUIREMENTS for atg-8l

<b>TYPE</b>	Circulator with heating/cooling capacities. Open bath type.
<b>TEMPERATURE RANGE</b>	5°C to +55°C or wider
<b>PUMP CAPACITY</b>	Pressure:0.2bar minimum Flow rate:2L/min minimum
<b>COOLING CAPACITY</b>	250W @10°C minimum
<b>HEATER CAPACITY</b>	500W minimum
<b>BATH VOLUME</b>	3L minimum

Julabo F25-ED is suitable for this specification.