

## REFRIGERATED CLOUD & POUR POINT BATHS

ASTM D97; ASTM D2500; ASTM D5853; IP 15; IP 219; IP 441; BS 2000 Parts 15 & 219; ISO 3015; ISO 3016; DIN 51 597; EN 23015; NF T60-105; FTM 791 201; JIS K2269

- Individually temperature controlled compartments
- Two litre bath capacity in each compartment
- Four air wells in each compartment
- Two stage 'CFC free' refrigeration system

Three and four compartment refrigerated cloud and pour point baths. Each 2 litre compartment is individually temperature controlled and can accommodate four Air Wells.

*Note: Due to the low operating temperature of these baths it is recommended that the compartments are filled with Butyl Glycol.*

### SPECIFICATIONS

<b>Seta Part No:</b>	93531-7	94100-3
<b>Compartment Quantity:</b>	3 + 1 low temperature	3
<b>Compartment Volume:</b>	2 litre	2 litre
<b>Total Test Positions:</b>	16	12
<b>Temperature Range:</b>	Ambient to -35°C (x3) -35°C to -51°C (x1)	Ambient to -34°C
<b>Ambient Temp Range:</b>	15°C to 32°C	15°C to 32°C
<b>Cooldown Time: (single compartment)</b>	approx 2hrs (from 32°C to -51°C)	approx 1hr (from 32°C to -34°C)
<b>Refrigerant:</b>	CFC Free; First Stage R134a; Second Stage R507	CFC Free; Single Stage R507
<b>Voltage:</b>	110/120V, 60Hz 220/240V, 50Hz	220/240V, 50Hz
<b>Power:</b>	1.8kW	750W
<b>Size (HxWxD):</b>	95 x 63 x 63cm	60 x 60 x 85cm
<b>Weight:</b>	115kg	115kg

### 93531-7 SETA CLOUD AND POUR POINT CRYOSTAT

- Three compartments ambient to -35°C
- One compartment -35°C to -51°C
- Independant temperature control
- Heated 'anti-condensation' lid

Four 2 litre compartments, each independantly temperature controlled. Three compartments have a temperature range of ambient to -35°C (0 to -35 ± 1.5°C). One low temperature compartment has a range of -35 to -51°C (± 1.5°C). Refrigeration is accomplished by a two stage CFC free system. An internal 'spare' canister of R507 refrigerant allows easy recharging of the second stage. The lid is electrically heated to prevent the formation of ice and condensation.

**SUPPLIED WITH:** 16 test jars (each comprising graduated glassware, thermometer cork, insulating gasket and disk), a compartment thermometer, and instruction manual.



BIO-FUEL TESTING



CALIBRATION & VERIFICATION MATERIALS



93531-7  
(Sample thermometers  
supplied separately)

### 94100-3 SETA COMPACT CLOUD AND POUR POINT CRYOSTAT

- Three compartments
- Temperature range ambient to -34°C

Three 2 litre compartments independantly temperature controlled between ambient and -34°C with a stability of ± 1.5°C.

**SUPPLIED WITH:** 12 test jars (each comprising graduated glassware, thermometer cork, insulating gasket and disc), a compartment thermometer, and instruction manual.



BIO-FUEL TESTING



CALIBRATION & VERIFICATION MATERIALS



TECHNICAL DATASHEETS AVAILABLE



94100-3  
(Sample thermometers  
supplied separately)

## REFRIGERATED CLOUD & POUR POINT BATHS

### ACCESSORIES – C&PP Cryostats

#### REQUIRED

##### THERMOMETERS:

High Cloud and Pour: **ASTM5C/IP1C** or **ASTM5F/IP1F**

Low Cloud and Pour: **ASTM6C/IP2C** or **ASTM6F/IP2F**

Pre-conditioning to ASTM D97 for fuel oils, heavy lubricant base stock, and products containing residual fuel components: **ASTM 61C/IP63C** or **ASTM 61F**.

*Note: One thermometer is required for each test jar in simultaneous use (in addition to the compartment thermometer supplied with the unit)*

#### OPTIONAL

94110-0 TROLLEY, for 94100-2 only

11500-0 COPPER CORROSION TEST VESSEL, for ASTM D5853, stainless steel. 'O' ring sealed screw-top closure. Max pressure 700kPa (100 psi).

#### CALIBRATION, VERIFICATION & TRAINING

99851-0 MULTI-TEST VERIFICATION MATERIAL, ASTM D2500 - IP 219; ASTM D6371; IP 309 Gas Oil; EN 116, (for details see page 150).

99852-0 MULTI-TEST VERIFICATION MATERIAL, ASTM D97 - IP 15 Fuel Oil, (for details see page 151).

99853-0 MULTI-TEST VERIFICATION MATERIAL, ASTM D97 - IP 15 Lubricating Oil, (for details see page 151).

99908-0 BIO-FUEL MULTI-TEST VERIFICATION MATERIAL, (for details see page 151).

### CONSUMABLES – C&PP Cryostats

2 Years/2000 Tests

Qty

11000-002 GRADUATED JAR & CORK, pack of 10 ..... 5

11000-003 INSULATING GASKET, pack of 20 ..... 2

11000-004 INSULATING DISC, pack of 20 ..... 2

93531-001 COMPARTMENT THERMOMETER ..... 1

93531-202 CORK-JAR& THERMOMETER WELL pack of 10 ..... 12

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## CLOUD & POUR POINT BATH

### 11010-2 SETA CLOUD AND POUR POINT BATH

ASTM D97; ASTM D2500; ASTM D5853; IP 15; IP 219; IP 441; BS 2000 Parts 15 & 219; ISO 3015; ISO 3016; EN 23015; DIN 51 597 (obs); NF T60-105; FTM 791 201; JIS K2269

- Four test positions
- Temperature range 9°C to -69°C

A test bath with stainless steel cover and a drain tap. Accommodates four test jackets and a bath thermometer.

SUPPLIED WITH: four graduated jars, corks, insulating gaskets and discs.



BIO-FUEL TESTING



CALIBRATION & VERIFICATION MATERIALS

*Note: Requires Freezing Mixture as specified in the test method.*

### ACCESSORIES – C&PP Bath

#### REQUIRED

##### THERMOMETERS:

High Cloud and Pour: **ASTM5C/IP1C** or **ASTM5F/IP1F**

Low Cloud and Pour: **ASTM6C/IP2C** or **ASTM6F/IP2F**

Pre-conditioning to ASTM D97 for fuel oils, heavy lubricant base stock, and products containing residual fuel components: **ASTM 61C/IP63C** or **ASTM 61F**.

*Note: One thermometer is required for each test jar in simultaneous use (in addition to the supplied compartment thermometer).*

#### OPTIONAL

11500-0 COPPER CORROSION TEST VESSEL, for ASTM D5853, stainless steel. 'O' ring sealed screw-top closure. Max pressure 700kPa (100 psi).

#### CALIBRATION, VERIFICATION & TRAINING

99851-0 MULTI-TEST VERIFICATION MATERIAL, ASTM D2500 - IP 219; ASTM D6371; IP 309 Gas Oil; EN 116, (for details see page 150).

99852-0 MULTI-TEST VERIFICATION MATERIAL, ASTM D97 - IP 15 Fuel Oil, (for details see page 151).

99853-0 MULTI-TEST VERIFICATION MATERIAL, ASTM D97 - IP 15 Lubricating Oil, (for details see page 151).

99908-0 BIO MULTI-TEST VERIFICATION MATERIAL, Gas Oil, (for details see page 151).



11010-2  
(Thermometers supplied separately)

### SPECIFICATIONS

Temperature Range:	9° to -69°C
Test Positions:	4
Size (HxWxD):	17 x 32 x 18cm
Weight:	4.3kg