

D86 DISTILLATION EQUIPMENT

11860-3 SETASTILL

ASTM D86; D216 (obs); D447 (obs); D850; D1078; E133; IP 123; IP 191; IP 195; EN 3405; BS 2000 Parts 123, 191 & 195; BS 658; BS 7392; ISO 198; FTM 791 1001; NF M07-002 (obs); JIS K2254

- Ambient to 400°C distillation range
- Adjustable height heater/flask platform
- Toughened glass window
- Cooling fan

The distillation unit, mounted to the left, comprises a flask support mechanism, heater elements, and the heater controller. The flask is supported by a drop-in ceramic-glass support board mounted to a platform that is adjustable for height.

The quartz enclosed heating elements are attached to the platform, and are powered by a solid-state energy regulator and calibrated control. A cooling fan is installed in the rear of the distillation unit to reduce cooling time between distillations. A toughened glass observation window is fitted in the front of the distillation unit, and a spillage collection tray with outlet is mounted beneath the heaters.

The condenser unit is attached to the distillation unit, and may be used with either a static fill of coolant or a laboratory cooling supply. Housed within the condenser unit is a thermally-insulated, stainless steel coolant tank, fitted with a permanently installed condenser tube. A drain tap and an overflow outlet are mounted on the rear of the unit.

SUPPLIED WITH: mains lead and instruction manual.



CALIBRATION & VERIFICATION MATERIALS



TECHNICAL DATASHEETS AVAILABLE

ACCESSORIES – Setastill

REQUIRED

DISTILLATION FLASKS, FLASK STOPPERS, FLASK SUPPORT BOARDS & RECEIVERS:

Refer to tables on page 29.

THERMOMETERS:

ASTM2C/3C/7C/8C/37C/38C/39C/40C/41C/42C/102C/103C/104C/105C/106C/107C or **BS 593** (100mm immersion).

IP75C, for condenser (alternative to 11867-0 Digital thermometer).

ASTM38C/IP78C and **ASTM40C/IP80C** (for BS 658 only).

Note: Other items that may be required include: Petroleum spirit 60/80; Receiver cooling apparatus.

OPTIONAL

11869-0 D86 DISTILLATION KIT, Groups 1 to 4, comprising: 125ml NS 19/26 Distillation Flask, NS 19/26 Thermometer centering device, Flexible Stopper Caps for side arm (x 5), 100ml Receiver, 38mm Flask Support Board, 50mm Flask Support Board, 50mm, ASTM7C Thermometer, ASTM8C Thermometer, Condenser Cleaning Tool, Boiling Stones.

11865-3 SETA CONDENSER LID, with thermometer support and receiver stand.

11866-0 SETA ANTI-SPLASH PLATE, for 100ml receiver, pack of 3.

11867-0 TEMPEN DIGITAL THERMOMETER, for condenser.

11868-0 HEAT SHIELD, SETASTILL, (ASTM D447 only).

97005-0 SETA-ORBIS DIGISTILL, (for details see page 30).

99300-2 MINI LOW TEMPERATURE BATH/CIRCULATOR to provide chilled water for condenser, (for details see page 139).

99910-0 PORTABLE DIGITAL BAROMETER, 750 to 1150 mbar absolute, (for details see page 145).

CALIBRATION, VERIFICATION & TRAINING

99850-0 MULTI-TEST VERIFICATION MATERIAL, Kerosine (for details see page 150).

99851-0 MULTI-TEST VERIFICATION MATERIAL, Gas Oil, (for details see page 151).

99854-0 MULTI-TEST VERIFICATION MATERIAL, Motor Gasoline, (for details see page 151).

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

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11860-3 and Accessories

SPECIFICATIONS

Distillation Range:	Ambient to 400°C
Voltage Range:	110/120V or 220/240V, 50/60Hz (switchable)
Power:	1000W maximum
Condenser Volume:	7.2 litre
Size (HxWxD):	47 x 37 x 25cm (Condenser Unit) 47 x 21 x 21cm (Distillation Unit)
Weight:	12kg total

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11800-0 SETA DISTILLATION UNIT

ASTM D86; D216 (obs); D447 (obs); D850; D1078; E133; IP 123; IP 191; IP 195; EN 3405; BS 2000, Parts 123, 191 & 195; BS 658; BS 7392; ISO 198; FTM 791 1001; NF M07-002 (obs); JIS K2254

- Suitable for gas or electrical heating
- Toughened glass window
- Front opening door
- Ready drilled for optional electric heater

A distillation unit designed for gas or electric heating. The levelling platform for glass ceramic flask support boards is ready drilled to receive the optional electric heater. Fitted with a toughened glass observation window.



CALIBRATION & VERIFICATION MATERIALS

11810-0 SETA CONDENSER UNIT

- Straight condenser
- Complements 11800-0 Distillation Unit

A condenser tank fitted with a straight condenser for use with 11800-0 Seta Distillation Unit.



11800-0 (with 11850-0 installed), 11810-0 and Accessories

SPECIFICATIONS

Size (HxWxD):	47 x 20 x 20cm (Distillation Unit) 33 x 45 x 19cm (Condenser Unit)
Weight:	6.1kg (Distillation Unit) 5kg (Condenser Unit)

ACCESSORIES – Seta Distillation & Condenser Units

REQUIRED

11850-0 SETAMATIC CONTROLLED HEATER, 1kW, internally mounting, with on-off switch and temperature controller.

Voltage: 110/120V, 50/60Hz
220/240V, 50/60Hz

OR

11805-0 GAS CONTROL VALVE, to regulate gas supply to burner
AND ONE OF THE FOLLOWING:

10720-0 SETA BURNER, for coal gas.

10740-0 SETA BURNER, for LPG.

10750-0 SETA BURNER, for natural gas.

DISTILLATION FLASKS, FLASK STOPPERS, FLASK SUPPORT BOARDS & RECEIVERS:

Refer to tables on this page.

THERMOMETERS:

ASTM2C/3C/7C/8C/37C/38C/39C/40C/41C/42C/102C/103C/104C/105C/106C/107C or BS 593 (100mm immersion).

ASTM38C/IP78C and ASTM40C/IP80C (for BS 658 only).

Note: Other items which may be required include: Petroleum spirit 60/80; Receiver cooling apparatus.

OPTIONAL

11869-0 D86 DISTILLATION KIT, Groups 1 to 4, comprising: 125ml NS 19/26 Distillation Flask, NS 19/26 Thermometer centering device, Flexible Stopper Caps for side arm (x 5), 100ml Receiver, 38mm Flask Support Board, 50mm Flask Support Board, 50mm, ASTM7C Thermometer, ASTM8C Thermometer, Condenser Cleaning Tool, Boiling Stones.

11866-0 SETA ANTI-SPLASH PLATE, for 100ml receiver, pack of 3.

99910-0 PORTABLE DIGITAL BAROMETER, 750 to 1150 mbar absolute, (for details see page 145).

CALIBRATION, VERIFICATION & TRAINING

99850-0 MULTI-TEST VERIFICATION MATERIAL, Kerosine (for details see page 150).

99851-0 MULTI-TEST VERIFICATION MATERIAL, Gas Oil, (for details see page 150).

99854-0 MULTI-TEST VERIFICATION MATERIAL, Motor Gasoline, (for details see page 151).

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

SETA CERAMIC GLASS FLASK SUPPORT BOARDS

Seta Part	Hole Diameter	Size (W x L)
11808-0	25mm	152 x 152mm
11809-0	32mm	152 x 152mm
11811-0	38mm	152 x 152mm
11812-0	50mm	152 x 152mm
11813-0	70mm	152 x 152mm

DISTILLATION FLASK ACCESSORIES

Seta Part	Description
11804-0	FLEXIBLE STOPPER CAP, for side arm, pack of 10
11806-0	THERMOMETER CENTRING DEVICE, for straight neck flask
11807-0	THERMOMETER CENTRING DEVICE, for NS type flask
11814-0	CORK, for 11890-0 & 11940-0, pack of 100
11815-0	CORK, for side arm, pack of 100
11869-002	BOILING STONES, pack of 3

DISTILLATION FLASKS

Seta Part	Volume	Description
11950-0	100ml	Pack of 5
11940-0	125ml	NS type, pack of 5
11890-0	125ml	Straight neck, pack of 5
11960-0	200ml	E133, pack of 5
11962-0	200ml	D850, pack of 5
11970-0	250ml	Pack of 5

RECEIVERS

Seta Part	Volume	Form	Notes
22159-0	25ml	Parallel	Pack of 3
22160-0	100ml	Parallel	Pack of 3
22161-0	200ml	Parallel	Pack of 3
11910-004	100ml	Crow Type	Pack of 2