

BATHS

STIRRERS

HOTPLATES

HEATING
MANTLES



HEATING MANTLES

SPILLPROOF HEATING MANTLES

Specialty Spillproof Heating Mantles



- Units are designed with a built-in stainless steel liner that gives electrical & mechanical protection against spillage & enables easy cleaning
- Built-in electronic controller regulates heating element from ambient to 750°C, 2 ranges: low & high
- Durable housing is chemically resistant
- Accept a large range of flasks
- For maximum operator protection, models are grounded should spillage or flask breakage occur
- All models include support rod holder at the back.

Three Flask Size In One Mantle

Model K-1

- For flasks up to 1000ml.
- Stepless heat control.
- Operating temp. up to 750°C.

Model K-2

- For flasks up to 2000ml.



KM-1D

Optional: Digital Temp. control

Features:

- Three in one design accommodates 250, 500 or 1000ml round bottom flasks (K-1, KM-1).
- Three in one design accommodates 500, 1000 or 2000ml round bottom flasks (K-2, KM-2).
- Different vessel sizes, spill proof heater.
- Includes rear bracket for support rod.
- Stepless heat control up to 750°C (650°C with stirrer)
- Variable speed control up to 1800rpm (KM-1, KM-2).
- Heater on light.
- Element temperature range of ambient to 750°C.

Heating Mantle With Magnetic Stirrers

Model KM-1/KM-2

- Stepless heat control up to 650°C
- Variable speed control up to 1800 RPM

Specifications:

Analog Model	Digital Model	Temp. range	Capacity	Stirring	Dimensions	Weight	Watt
K-1	K-1D	up to 750°C	250-1000ml	-	W12xD17xD18cm	1.2kg	550
K-2	K-2D	up to 750°C	500-2000ml	-	W21xD20xD24cm	1.4kg	750
KM-1	KM-1D	up to 650°C	250-1000ml	up to 1600rpm	W16xD17xD23cm	2.3kg	550
KM-2	KM-2D	up to 650°C	500-2000ml	up to 1600rpm	W21xD20xD24cm	2.5kg	750

E-Series, Multi Position Round Top Extraction Heater



E-6

- Optional: Aluminium top mould for round bottom flasks up to 250ml/500ml for extraction apparatus soxhlet.
- Digital temperature control.

The Multi Heating Apparatus offers such versatility that is suitable for many laboratory purposes: extractions, distillations, digestions, evaporation etc. The 6 separate heat controls allow the heaters to be used for several different projects or multiple runs of the same project. The Multi Heating Apparatus in conjunction with interchangeable top mould for round bottom flasks - solves the most varied heating problems.

Model E-6 Six individual heat controls with

- pilot lights
- Built-in temperature regulator
- For 6 places, 220 Volt (on request 115 V), 2700 Watts (6x450 W)
- Approximate temp.: 40 - 450°C
- Hotplate top 85 mm. dia.
- Dimensions (WxHxD): 80x17x20 cm
- Accessories: Optional: 6 interchangeable aluminum top moulds for round bottom flasks up to 100 ml or 250 to 500ml (Kjeldahl flasks 500-800 ml)
- 4 support rods 800x12 mm. with 4 clamps.

Model E-4 as described above, but for 4 places 220Volts 1800Watts (4x450W). DIM. (WxHxD): 60x17x20 cm.

MULTI UNIT KJELDAHL APPARATUS

K-Series, Multi Unit Macro Kjeldahl Apparatus



K-6

Model K-6, 6 Positions

Up to 6 flasks • 220 Volt (or 110V), 6x550 Watt • Dimensions: (WxHxD) 80x19x20 cm (D includes rear bracket for support rod) • Nett weight: 6.8 Kgs.



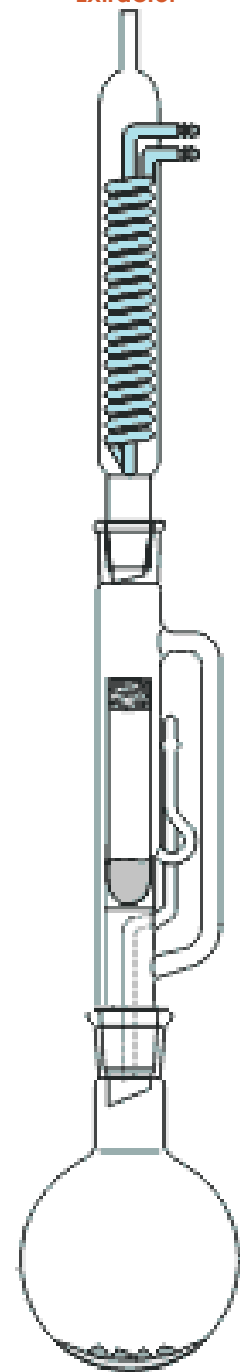
K-4

Model: K-4, 4 Positions

Up to 4 flasks • 220 Volt (or 110 V), 4 x 550 Watt • Dimensions: (WxHxD) 60x19x20cm (D includes rear bracket for support rod) • Net weight: 4.8 Kgs.

- For flasks 250 up to 1000 ml.
- Spillproof–Stainless Steel Heater.
- Stepless– heat control.
- Operating temp.: up to 750°C.
- Includes 4 support rods and 4 clamps.
- Durable housing is chemically resistant.
- Built-in electronic controller regulates element temp. to 750°C, 2 ranges: low & high.
- Robust aluminium construction permits operation of the units as required by extraction and distillation processes.
- "Heat on" light for each recess indicates when power is being supplied to the heater.
- For maximum operator protection, models are grounded should spillage or flask breakage occur.
- Units are designed with a built-in stainless steel liner that gives electrical and mechanical protection against spillage & enables easy cleaning.
- Lower profile for space-saving convenience.
- Ideal for repetitive extracting (kjeldahl, soxhlet, and other extraction procedure), refluxing & distilling laboratory applications.
- Analog controller built-in system.
- Rods & clamps are offered as standard.
- Ideal for all brands round flasks.
- Highly-processed aluminium case offers robust standing, easy handling.

Soxhlet Extractor



Soxhlet Extractors

For the extraction from solids with solvents. The solvent is recirculated continuously and distilled from the extracted sample before contacting the solid again. The extract is concentrated in the distillation flask. The method allows an effective separation with relatively small amounts of extracting solvents.

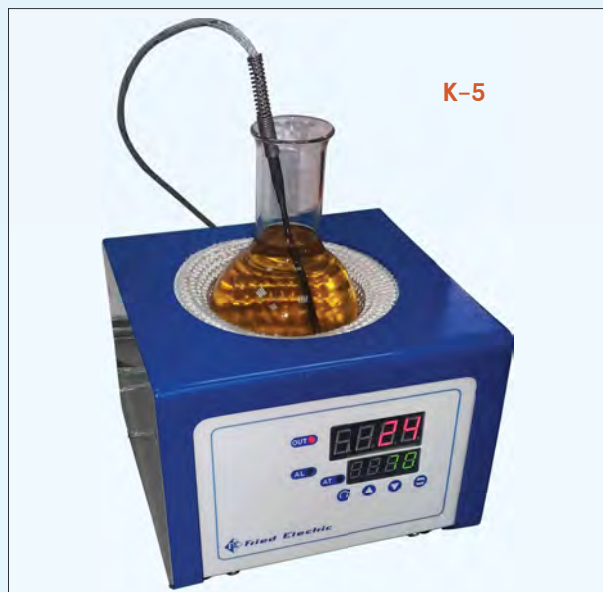
The complete apparatus consists of

- round bottom flask
- compact and robust designed extractor with NS 29/32 flask connection.



Cat.No.	Extractor ml	Condenser NS	Flask ml	Condenser
5.3600.25	30	29/32	100	dimroth
5.3600.31	70	34/35	100	dimroth
5.3600.37	100	45/40	250	dimroth
5.3600.43	150	45/40	250	dimroth
5.3600.46	200	45/40	250	dimroth
5.3600.49	250	45/40	500	dimroth
5.3600.52	300	60/46	500	dimroth
5.3600.58	500	60/46	1000	dimroth
5.3600.70	1000	71/51	2000	dimroth

DIGITAL METAL CASE MANTLES



K-5

K-5, Metal Case Mantles, Digital Control, Up to 450°C

- Digital set-point and read-out of actual temperature.
- PID microprocessor controller provides precise temperature regulation all over the temp. range, include the low temp close to the ambient
- External temp. sensor 200mm length, 3.2mm diameter
- Support device at the rear of the base to hold standard rod
- External sensor input.

Options:

- Digital timer and ramp to temperature function.
- Programmer
- Separate Control box: You can have your controller separated for wide variety of applications for example for glove-box.
- Coming soon with magnetic Stirrer.



Aluminum housing is chemical resistant, tough, lightweight and easy to clean • Max. temp. 450°C • Full pid temperature controller. Ensure high temp stability. Process accuracy. Dual display of set value & process • 7 series mantles sizes available from 50 to 3liter • Unique air flow through ventilation slots beneath & around the case keeps the exterior safe to touch • Flexible coiled heating element provides good heat transfer while absorbing shock minimizing risk of flask breakage • Heating element and insulation form an easily replaceable heating cartridge • A "Heater On" light indicates when power is being supplied to the heaters • Aluminium housed case, rigid housing to support the weight of the vessel • Provide uniform heating of vessel without the danger of open frame • Covering only the bottom half of the vessels & provide full view of the contents of the vessel • Fabric mantles for effective heating & protection of glass vessels from thermal shock.

Model	Capacity	Power
K-5-50D	50ml	60W
K-5-100D	100ml	80W
K-5-250D	250ml	200W
K-5-500D	500ml	300W
K-5-1000D	1000ml	400W
K-5-2000D	2000ml	500W
K-5-3000D	3000ml	600W

K-5-3/6 Multi Position Heating Mantles With 3 or 6 Heating Places

Models	Capacity	Units	Total watts
K-5-3-250	250 ml	3	600W
K-5-3-500	500 ml	3	900W
K-5-3-1000	1000 ml	3	1200W
K-5-6-250	250 ml	6	1200W
K-5-6-500	500 ml	6	1800W
K-5-6-1000	1000 ml	6	2400W

- Temp. range up to 450°C
- Unique air flow ensure unit is safe to touch
- Independent digital temp. control to each channel
- Optional: Magnetic stirrer to each mantle.



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