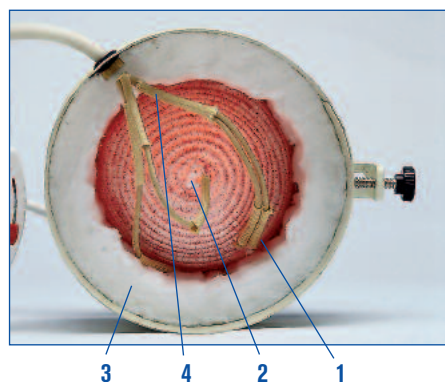




HEATING MANTLES FOR FLASKS



COMMON FEATURES

1. Hand woven mineral wool with flexible braiding, which adapts snugly around the flask, with drain hole, replaceable.
 2. The heating element is distributed homogeneously throughout the mantle. Connectors and cables are protected by mineral fibre tubes. Efficient low power consumption, potential of 1 w/cm². Maximum mantle temperature of 450 °C.
 3. Double walled fibre wool thermally insulated casing.
 4. Pure Nickel connection terminals protected by mineral fibre tubing that prevent the deterioration of the contact due to high temperature.
- Support for retort bar.

APPLICATIONS

For digestion distillation, extraction, evaporation and boiling processes.



SAFETY:
FOLLOWING CE STANDARDS, IN THE CASE OF LIQUID SPILLS AN EARTH WIRE IS WOVEN INTO THE MANTLE TO PREVENT ELECTRIC SHOCKS.

MODELS SELECTION SUMMARY TABLE

Capacity ml	Ø flask mm	Fibroman C 2 positions	Fibroman D Woven	Fibroman O Funnel hole	Agiman Woven	Fibroman N Electronic regulator	Micro for Kjeldahl banks	No. Places	For Kjeldahl/ Soxhlet banks	No. Places
100	65	3003141	-	-	-	3000996	6014204	4	-	-
100	65	-	-	-	-	-	6014206	6	-	-
250	83	3003142	3004192	-	3000447	3000721	-	-	-	-
500	102	3003145	3004195	-	3000448	3000722	-	-	6003294	4
500	102	-	-	-	-	-	-	-	6003296	6
1000	132	3031410	3041910	3049110	3000449	3000723	-	-	-	-
2000	164	3031420	3041920	3049120	3000450	3000724	-	-	-	-
3000	190	3031430	-	-	-	-	-	-	-	-
4000	203	3031440	-	-	-	-	-	-	-	-
5000	222	3031450	-	3049150	-	-	-	-	-	-
6000	235	3031460	-	-	-	-	-	-	-	-
10000	290	3314100	-	3491100	-	-	-	-	-	-
20000	365	3314200	-	3491200	-	-	-	-	-	-



Heating mantle for flasks "Fibroman-C"

DUAL HEATING POWER.

With independent heating control selector

FEATURES

Two position isolated rocker switch heating control with power on indicator lamp.

TECHNICAL DESCRIPTION

- DUR ALLOY aluminium exterior case with epoxy coating.
- Suspended mineral wool woven heating mantle.
- Heating element homogeneously distributed throughout the woven mantle.
- Thermally insulated case, mineral wool fibre insulation.
- Nickel connectors.
- Retort stand clamp at the back of the unit.
- In the case of breakage or spills a drain hole is provided at the bottom of the mantle.
- Safety earth connection.

MODELS

Part No.	Flask capacity ml	Flask Ø approx. mm	Ø / Height (exterior) cm	Power W	Weight Kg
3003141	100	65	16 11	130	1
3003142	250	83	16 11	130	1.1
3003145	500	102	17 12	270	1.2
3031410	1000	132	21 12.5	410	1.4
3031420	2000	164	24 15	530	2
3031430	3000	190	27 18	620	2.2
3031440	4000	203	31 19	700	2.8
3031450	5000	222	31 19	840	3.2
3031460	6000	235	31 19	1000	3.4
3314100	10000	290	38 22	1400	4.7
3314200*	20000	365	48 26	2300	11

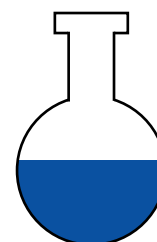
* The mantle part no. 3314200 comes without the 2 position controller and switch. See Accessories on (page 212) and Regulators and controllers (pages 277 and 278).



CROSS SECTION OF HEATED FLASKS

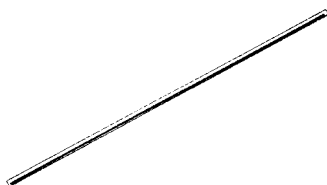


Position I
50% power output.



Position II
100% power output.

ACCESSORY



Support bar Dur-Aluminium of 12 Ø x 700 mm long.
Part No. **6000270**





Heating mantle for flasks “Fibroman-D”

FEATURES

Soft mantle made with a double woven mineral wool. A mains switch and safety earth are also fitted. The mantle can be supported by a retort ring or tripod stand.

MODELS

Part No.	Flask capacity ml	Ø / Height (exterior) cm		Power W	Weight Kg
3004192	250	15	6.5	130	0.8
3004195	500	17	7	270	0.9
3041910	1000	20	8.5	410	1
3041920	2000	24	11	530	1.5

See accessories (page 212) and controller (pages 277 and 278).

ACCESSORIES

Retort Part No.	Tripod Ring Part No.	Mantle Part No.
7041921	7041922	3004192
7041951	7041952	3004195
7419101	7419102	3041910
7419201	7419202	3041920



Heating mantle for flasks and funnels “Fibroman-O”

WITH TRIPOD SUPPORT STAND.

APPLICATIONS

Suitable for round bottom flasks, decanting funnels and reaction flasks with a bottom drain.

FEATURES

- Woven mineral fibre mantle.
- Epoxy coated exterior.
- On/Off switch.
- Safety earth.

MODELS

Part No.	Flask capacity ml	Ø / Height (Exterior dims.) cm		Ø cm Bottom hole	Tripod Height cm	Power W	Weight Kg
3049110	1000	24	10.5	8	34	410	1.5
3049120	2000	28.5	12	8	36	530	2.5
3049150	5000	37.5	17.5	9	38	840	3.5
3491100	10000	43.5	20	9	43	1400	5
3491200	20000	48	25	12	36	2300	13

Due to its capacity the part no. 3491200, 20000 ml capacity is manufactured in a cylindrical case. See accessories (page 212) and controller (pages 277 and 278).



Heating mantle for flasks

ADAPTABLE FOR THE “AGIMAN” STIRRER UNIT.

MODELS

Part No.	Flask capacity ml	Ø / Height (Exterior dims.) cm		Power W	Weight Kg
3000447	250	15	6.5	130	0.8
3000448	500	17	7	270	0.9
3000449	1000	20	8.5	410	1
3000450	2000	24	11	530	1.5

ACCESSORIES

Mantle magnetic stirrer “Agiman”. With interchangeable mantle adapters. Electronic control of stir speed (up to 1600 r.p.m.).

Connection at the back for an electronic contact thermometer “Sensoterm” or digital electronic regulator “Electemp”.

See controller (pages 277 and 278).

Part No. **7000446**



Stirring mantle with adapter device.



Stirring mantle, complete.

NEW DESIGN





Heating mantle for flasks "Fibroman-N"

ELECTRONIC ENERGY HEATER CONTROL FROM 0 TO 100 %.

Maximum precision

Connection at the back for a electronic contact regulator



FEATURES

AISI 304 stainless steel outer casing.
Complete with a rod support clamp at the back.
Safety earth fitted.

CONTROL PANEL

Main power switch with power on indicator lamp.
Heating control using a 0 to 100 % energy regulator.
Indicator lamp shows when the heating mantle is on.
To monitor the sample temperature, a connection at the back of the unit allows for a contact or digital thermometer "Sensoterm", to be connected. Alternatively a digital "Electemp" controller can be added to set and control the temperature of the unit.
See controller (pages 277 and 278).

MODELS

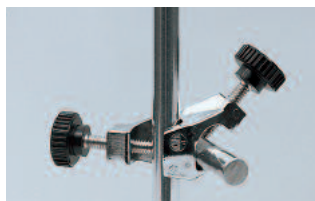
Part No.	Flask capacity ml	Height / Width / Depth (exterior) cm			Power W	Weight Kg
3000996	100	11	14	18	130	1.5
3000721	250	12	18	24	130	3
3000722	500	12	18	24	270	3
3000723	1000	13	21	27	410	4
3000724	2000	15	25	31	530	5

ACCESSORY

Support bar Dur-Aluminium
of 12 Ø x 700 mm long.
Part No. **6000270**



Heating mantle accessories



Double nut boss head.
Part No. **1000069**



Spring clamp for holding thermometers.
Part No. **7000025**

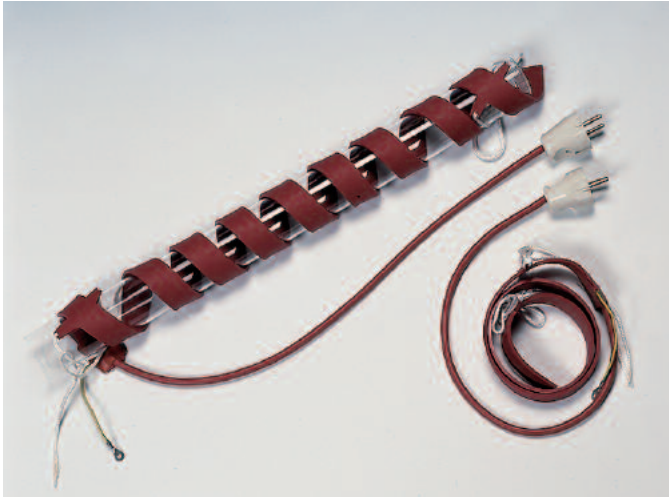


Clamp for supporting and holding condensers or other glassware. Part No. **7000161**



Heating tapes

HEATING TAPE SURFACE TEMPERATURE UP TO 210 °C. CONFORMS TO VDE EN 60335-A.



FEATURES

Heating elements distributed homogeneously between flexible moulded sheets of silicon.

APPLICATIONS

Used for heating small areas such as heating ducts for distillation, valves and pipes etc.

MODELS

Part No.	Length m	Width mm	Power W
3003178	0.80	25	180
3031710	1	25	210
3031715	1.5	25	265



Flexible heating cord



FEATURES

For tape surface temperatures up to 180 °C. Thermally insulated using flexible silicon tube.

APPLICATIONS

For heating small areas such as heating ducts, distillation, valves and pipes etc.

MODELS

Part No.	Length m	Ø Cord mm	Power W
1000781	1.5	3	45
1000782	3	3	90
1000783	6	3	180
1000784	12	3	360



Large surface area heating mats

MAT SURFACE TEMPERATURES UP TO 210 °C.
CONFORMS TO VDE STANDARD EN 60335-A.



FEATURES

The heating element is insulated and distributed homogeneously between two sheets of flexible moulded silicon.

Heating Power: 0.39 W cm².

Mat surface temperature up to 210 °C.

Held in place by hooked spring fittings.

APPLICATIONS

Suitable for heating drums up to 200 litres Ø 60 cm.

Total: 3 bands of 171 cm in length x 15 cm wide.

Power consumption 3000 W.

Part No. **4000200**

ACCESSORIES

See controller (pages 277 and 278).



Banks of heating mantles for digestion, Kjeldahl, Soxhlet extraction and round bottle flasks

CONTROLLABLE MANTLE TEMPERATURE UP TO 550 °C.

FEATURES

Independent heating control for each position.
2 Height and angle adjustable bars to support condensers or other glassware for digestion or extraction.
External case made of AISI 304 stainless steel.
Safety earth strip fitted.

CONTROL PANEL

Temperature control with a pulsed energy regulator. An indicator lamp shows when the mantle is on.

MODELS

Part No.	For flasks	Flask volume ml	No. of places	Height / Width / Depth (exterior) cm	Power W	Weight Kg
6003294	Kjeldahl / Soxhlet	300-500	4	18 76 25	1500	12
6003296	Kjeldahl / Soxhlet	300-500	6	18 105 25	2200	16
6014204	Micro-Kjeldahl	100	4	16 59 21	510	9
6014206	Micro-Kjeldahl	100	6	16 81 21	900	12

Comes with 2 bars and bar clamps suitable for digestion or extraction.



ACCESSORIES (DIGESTION)



Fume extractor tube clips made of AISI 304 stainless steel.

Part No.

6000008 For bank of Macro-Kjeldahl.

6000009 For bank of Micro-Kjeldahl



Borosilicate glass fume extractor tubes.

Part No.

1000104 For: Bank Macro-Kjeldahl, 4 positions.

1000106 For: Bank Macro-Kjeldahl, 6 positions.

1042044 For: Bank Micro-Kjeldahl, 4 positions.

1042066 For: Bank Micro-Kjeldahl, 6 positions.



Kjeldahl flask support made of AISI304 stainless steel. Flasks 300-500 ml.

Part No. 1000002

ACCESSORIES EXTRACTION



Double nut boss head.

Part No. 1000069



Clamp for holding condensers.

Part No. 7000403

EXTRACTION AND NEUTRALISATION OF GASSES.

Reduces water wastage.



NEW

“Scrubber”

Re-circulation pump

Designed to neutralise and absorb fumes generated in the Kjeldahl digestion process.

Made up of a “Scrubber unit” that blocks the passage of condensed acids and neutralises the gas in a solution of NaOH, a re-circulating water pump that produces sufficient vacuum to aspirate the gasses and vapours.

No mains water connection required. Prevents waste contamination.

Low noise level (<65dBA).

Re-circulating pump made from chemically resistant materials.

Models

“Scrubber” unit

Part No.	Height / Width / Depth (exterior) cm	Weight Kg
4001611	32 31 16	2

Re-circulating water vacuum pump.

Part No.	Height / Width / Depth (exterior) cm	Vacuum level bar	Pump rate litre/minute	Weight Kg
4001612	44 39 28	0.098	2 x 10	10