

# Mantle

## Heating Mantle (Non- Asbestos)

- ❖ All items are **NON-ASBESTOS**.
- ❖ Most durable and mantle for almost all vessels especially well-suitable made for any shape instrument.
- ❖ Withstand 400°C internal maximum temperature.



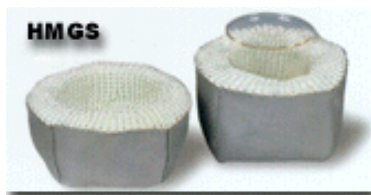
### HMIE

- Variety control range (0 ~ 400°C +/- 1°C) by SSR on/off type controller included (reference MC-E controller ).
- Also support 'K' type thermo couple.



### HMD

- Variety control range (0 ~ 400°C +/- 1°C) by proportional (4 ~ 20mA) type.
- Controller included (reference MC-D controller).
- Real temperature displayed on digital.
- Also support 'K' type thermocouple.



### HMGS

- This mantle designed for work with magnetic stirrer.
- Not included heating element in a lower part cause stirring bar.
- Withstand 450°C internal maximum temperature light weight and compact form perfect shut-off internal heat (rounded aluminum coating glass cross fiber).
- Should be used with controller.

## SPECIFICATION

	HMIE	HMD
POWER	AC 110 OR 220V	
CONTROL METHOD	SSR ON/OFF	PROPORTIONAL (4- 20mA)
THERMO COUPLE	'K' TYPE	
TEMP ACCURACY	+/- 2°C	+/- 1 °C
TEMP INDICATOR		DIGITAL DISPLAY



### HMI, HMIc-

- All items are **NON-ASBESTOS**.
- Most durable and mantle for almost all vessels especially well suitable made for any shape instrument.
- The only practical type of mantle for very large vessel.
- Withstand 450°C internal maximum temperature.
- Can be adapted for special application-holes through bottom for flask drain, special electric device.
- Perfect shut-off internal heat specially powder coating case.



### Check out before order

1. Choose the 110 or 220 voltage
2. Use vessel method, capacity and maker
3. Location or stick of cock valve, pipe
4. Accuracy temperature for use controller

## SPECIFICATION

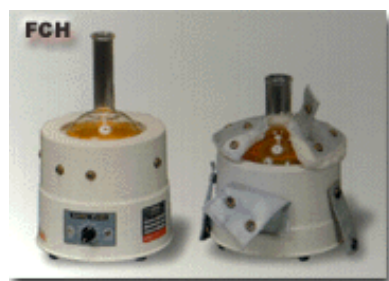
Capacity (ml)	MODEL (FLASK, BEAKER)							Wattage
	HMI-F(B)	HMICP-F(B)	HMICI-F(B)	HMGS-F(B)	HMIE-F(B)	HMID-F(B)	RT-F(B)	
50	HMI-F5	HMICP-F5	HMICI-F5	HMGS-F5	HMIE-F5	HMID-F5	RT-F5	80
100	HMI-F10	HMICP-F10	HMICI-F10	HMGS-F10	HMIE-F10	HMID-F10	RT-F10	80
300	HMI-F25	HMICP-F25	HMICI-F25	HMGS-F25	HMIE-F25	HMID-F25	RT-F25	140
500	HMI-F50	HMICP-F50	HMICI-F50	HMGS-F50	HMIE-F50	HMID-F50	RT-F50	220
1,000	HMI-F100	HMICP-F100	HMICI-F100	HMGS-F100	HMIE-F100	HMID-F100	RT-F100	300
2,000	HMI-F200	HMICP-F200	HMICI-F200	HMGS-F200	HMIE-F200	HMID-F200	RT-F200	450
3,000	HMI-F300	HMICP-F300	HMICI-F300	HMGS-F300	HMIE-F300	HMID-F300	RT-F300	550
5,000	HMI-F500	HMICP-F500	HMICI-F500	X	HMIE-F500	HMID-F500	RT-F500	800
10,000	HMI-F1000	HMICP-F1000	HMICI-F1000	X	HMIE-F1000	HMID-F1000	RT-F1000	1,400
20,000	HMI-F2000	HMICP-F2000	HMICI-F2000	X	HMIE-F2000	HMID-F2000	RT-F2000	2,000

## ROTA MANTLE (MAGNETIC STIRRER MANTLE)



### RT-F(B)

- Uni directional up to approximately 2,000 R.P.M
- This unit adds magnetic stirring capability to mantle.
- Electric stir control creates and synchronizes a rotating magnetic field within the stir mantle that drains the stir bar inside a flask or beaker.
- This case made of powder coated to minimize damage made from spillage.
- Non movable stir bar on high speed range.
- Stirring function achieved by P. voltage control built into base of mantle (this system will change by manufacturer without information).
- Withstand 450°C internal maximum temperature.



### FCH

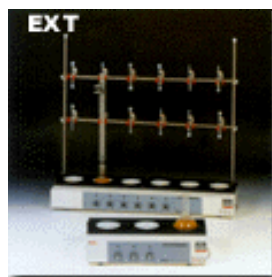
- 1,2 or 3 neck round bottom flask spherical design cover top and bottom of flask or beaker reactor.
- Prevent vapor condensation in a upper half of flask distillation of high boiling materials.
- Heating mantle-fits easily into crowded space effective heating and protection of glass vessel.
- Withstand 450°C internal maximum temperature.
- Can be fabricated for most any glass through special order.
- Circumferential button holds the halves snugly together to prevent heat loss.
- Available use single bottom mantle.
- Should be used with controller.

## EXTRACTION MANTLE



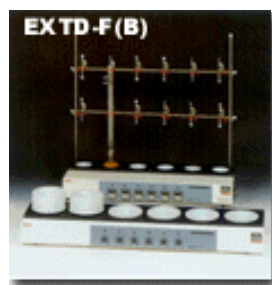
### EXTR-F(B), MULTIPLE ROTA MANTLE

- Combined magnetic stirrer system.
- Same effect multiple rota mantle.
- Six position mantles can accommodate individual control.
- Speed range for 0 ~ 2,000 R.P.M
- External view is similar to extraction mantle.
- Support clamp and holder



### EXT-, EXTD-F(B)

- Specially designed for Soxhlet and other extraction test.
- Choose 3 or 6 recesses.
- Due to separate attachment of temperature controller,
- Experiment under various temperature is possible (six position mantles can accommodate individual control).
- Real temperature displayed on digital (EXTD).
- Combination mantle utilizes convenient container system that allow user to quickly and easily replace without a damage to order parts of mantle.
- Support clamp and holder.



## SPECIFICATION

CAPACITY(ML)	MODEL (FLASK, BEAKER)			WATTAGE
	EXT-F(B)	EXTR-F(B)	EXTD-F(B)	
50	EXT-F5	EXTR-F5	EXTD-F5	80 x 6(HOLE)
100	EXT-F10	EXTR-F10	EXTD-F10	80 x 6(HOLE)
250	EXT-F25	EXTR-F25	EXTD-F25	140 x 6(HOLE)
500	EXT-F50	EXTR-F50	EXTD-F50	220 x 6(HOLE)
1,000	EXT-F100	EXTR-F100	EXTD-F100	300 x 6(HOLE)

*labkorea*