

Half & Fully Sheathed Ring Heaters



≡ APPLICATION of Half & Fully Sheathed Ring Heaters

Half-Sheathed / Fully Sheathed Ring Elements owing to their convenient shape & sizes, adapt themselves readily to variety of machines and appliances for which other type of heaters are not suitable. They are being fitted for heating platens, dies of presses. They are also in use for melting of glue, wax, easily fusible metals like leads, tin, solder, hot plates, valves, flanges, brooders, vulcanizers, popcorn machines, high speed packing machines, diffusion pumps, tank bottoms, kettles, large coffee percolators & wash boilers etc.

≡ CONSTRUCTION

Chrome steel sheath on one side and edges, other flat side is the bare refractory. Coiled electric resistant wire embedded inside. And steel terminal studs with nuts and washers.

≡ FEATURES

Being sheathed on one side only, it has very little residual heat and stands up to 650°C temperature for its surface area. Elimination of the sheath on the contact side puts the rock hard refractory in direct contact with the heated surface, thereby providing slightly faster heat-up. Half Sheath elements can be used where the protection provided by the full sheath is unnecessary.

Fully Sheathed Heaters (both sides metal) provides extra protection from rough handling & usage, especially when there are chances of falling any liquid on it.

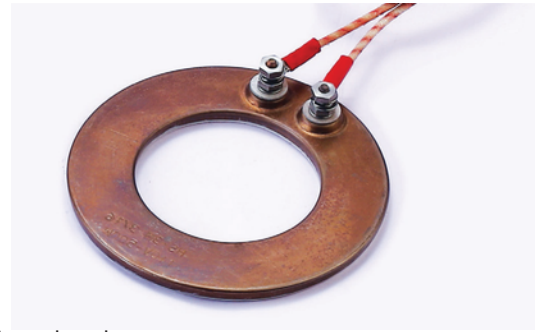


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INSTALLATION & PRECAUTIONS

1. Always use the largest possible numbers of heaters in order to reduce the density in Watt for sq.cm.
2. Ensure the base of the surface is flat to ensure maximum thermal contact with the heating elements.
3. The Heaters shall be so installed so that the Ratings are easily visible when required to be replaced in case of faults or for checking after installation.
4. The installation shall be such that Mains parts are not be exposed, easily accessible and touched by finger.
5. Install heat insulation to avoid excess heat loss but do not back directly against the element.
6. Use heat resisting wires for electrical connections. Protect lead exit from contaminations by electrically conductive substances, mechanical shock, excessive flexing, excessive temperature & moisture.
7. Use crimped lugs of appropriate size and construct it so that no strands are loose. Shall be tightened with appropriate torque so that there is no loose connection.



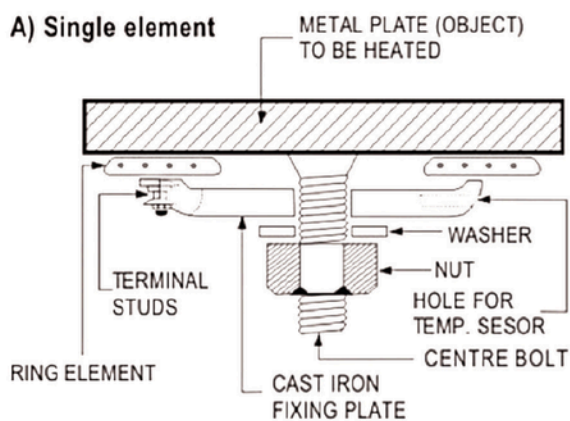
CLAMPINGS

Cast-iron clamps, for ring elements, retain their strength at elevated temperatures to assure maximum sheath-to-surface contact. Resulting uniform efficient heat transfer from internal resistance wire to the heated material minimize hot spots on the element, contributing to long service life.



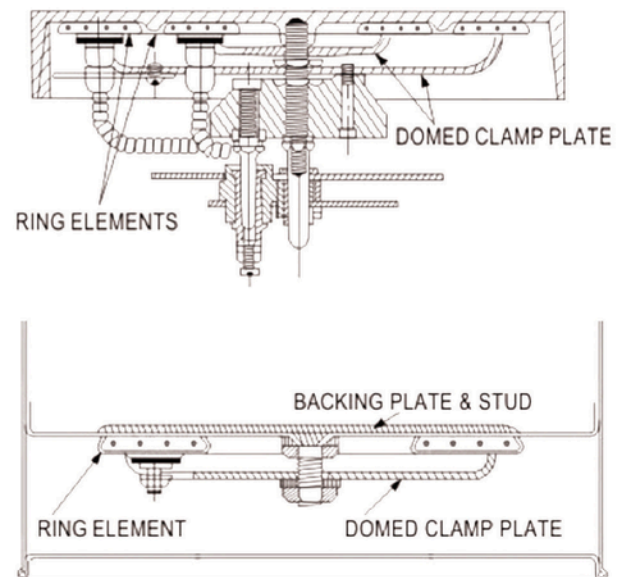
METHODS OF MOUNTING Half-Sheathed / Fully Sheathed RING HEATERS

If the utensil is having thick bottom. The mounting of the element is very simple. A centre bolt & a concave fixing plate alone being necessary, as shown.



If the utensil button is thin, we suggest to strength it by means of brass / SS backing plates which makes one piece with the fixing bolt mounted as shown.

B) Double elements



STANDARD SIZES

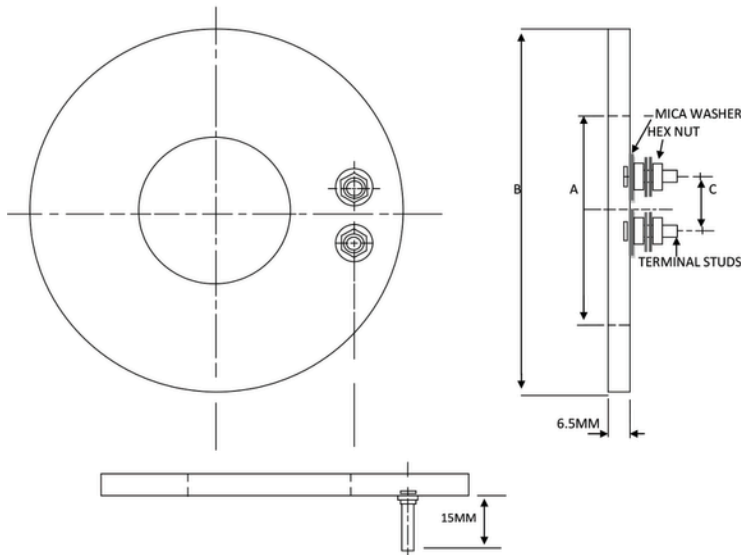
Types	Max. Watts @230 Volts	Half Sheated (Type HS)		Fully Sheated (Type FS)	
		ID (mm)	OD (mm)	ID (mm)	OD (mm)
HS-1/FS-1	350	27	87	25	89
HS-2/FS-2	400	50	100	48	102
HS-3/FS-3	500	50	111	48	112
HS-4/FS-4	1000	62	134	60	136
HS-6/FS-6	1250	90	160	88	161
HS-7/FS-7	1300	113	178	111	180
HS-8/FS-8	1600	129	201	126	203
HS-9/FS-9	1750	152	218	151	220
HS-10/FS-10	2000	225	300	223	302

- * HS-1 have 4BA thread terminal studs and all others types have 2 BA thread studs.
- * Tolerance in dimension +/- 0.5mm
- * Heater is not recommended for direct immersion in liquid.
- * Heater with different Wattage & Voltage can also be made on acceptable quantity and at special price.
- * Dimensions are subject to change without notice.
- * Available in E.P.S., E.P.E. packing contains two & ten pieces.

These Heaters can be used one inside the other in the following manners.

1. FS-10 + FS 9 + FS 4 Total Power 4750 Watts.
2. FS-9 + FS 4 Total Power 2950 Watts.
3. FS-8 + FS 3 Total Power 2100 Watts.
4. FS-7 + FS 2 Total Power 1700 Watts.

TERMINALS SPECIFICATIONS



TYPES	MAX WATTS AT 230/250 VOLTS	DIMENSION (IN MM) A	DIMENSION (IN MM) B	CENTRE DISTANCE (IN MM) C	TERMINAL STUDS THREAD SIZE
HS-1	350	27	88	16	4 BA
HS-2	400	50	100	21	4 BA
HS-3	500	50	111	21	4 BA
HS-4	1000	62	134	21	2 BA
HS-6	1250	90	160	21	2 BA
HS-7	1300	113	178	21	2 BA
HS-8	1600	129	201	21	2 BA
HS-9	1750	152	218	21	2 BA
HS-10	2000	225	300	21	2 BA



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