

# Girish-heat<sup>®</sup>

## Electric Heating Elements

As Per IS-4159 / IS-3724

IS:4159



# GIRISH-HEAT





IS:4159



CM/L-7366683

**Girish-heat Brand Heating Elements As Per IS-4159****COMMERCIAL & INDUSTRIAL WATER IMMERSION HEATERS**

**Commercial water immersion heater :-**  
Copper tubular sheathed, brazed with Brass flange chrome plated provided with earthing terminal and a metallic cap for protection of terminals.

**Uses :-** Light duty (intermittent) boilers, washing machines, Geysers, Coffee urns, sterilizers and for other commercial purposes.

**Industrial water immersion heaters :-**  
Copper tube nickel chrome plated heating Element brazed to brass flange, provided with earthing terminals and a metallic cap for protection of terminals.  
**Uses :-** Heavy duty industrial hot water baths, water jacketed apparatus, side arm circulating process tanks etc.

**NB.:** Also available with flame proof covers

Type	Watts	Volts	Depth Immer	Flange
<b>Commercial Water Immersion Heaters</b>				
CH/10/220	1000	230	220 mm	1 ¼" BSPT
CH/15/220	1500	230	220 mm	1 ¼" BSPT
CH/20/325	2000	230	325 mm	1 ¼" BSPT
CH/30/425	3000	230	425 mm	1 ¼" BSPT
<b>Industrial Water Immersion Heaters</b>				
IH/20/220	2000	230	220 mm	1 ¼" BSPT
IHS/20/220	2000	230	220 mm	1 ½" "
IH/30/280	3000	230	280 mm	1 ¼" "
IH/30/220	3000	230/400Y	220 mm	1 ¼" "
IHS/30/220	3000	230/400Y	220 mm	1 ½" "
IHT/40/260	4000	230/400Y	260 mm	2" "
IHT/50/320	5000	230/400Y	320 mm	2" "
IHT/60/380	6000	230/400Y	380 mm	2" "
IHT/90/550	9000	230/400Y	550 mm	2" "
IHX/120/575	12000	230/400Y	575 mm	2 ½" "

**OIL IMMERSION HEATERS along with Check Nut & Washers**

Type	Watts	Volts	Depth Immer	Flange
OIH/10/438	1000	230	438 mm	2 ½" BSPT
OIH/15/438	1500	230	438 mm	"
OIH/20/438	2000	230	438 mm	"
OIH/30/438	3000	230/400Y	438 mm	"
OIH/40/575	4000	230/400Y	575 mm	"
OIH/50/575	5000	230/400Y	575 mm	"
OIH/60/575	6000	230/400Y	575 mm	"
OIH/90/575	9000	230/400Y	575 mm	"

(WANSON)



**Oil immersion heaters :-** Steel tubular sheathed, brazed to a C.I. flange, provided with Thermostat pocket, earthing terminals, & cap.

**Uses :-** For fuel oil heating, oil circulating, for systems which supply hot oil to plastic & chemicals processes, oil jacketed kettles and similar equipments.

**LONG LIFE 'U' SHAPE AIR & FINNED AIR HEATERS with M.S. Fins (CR-NI Steel Tube)**

**Long life 'U' shape air heater :-**  
Chrome-Nickel steel tubular sheathed heating Element compacted with high grade insulation powder for better transmission of heat, provided with adjustable brackets and heavy duty brass terminals.

**Uses :-** For efficient heating, baking, curing of paints, enamels, lacquers, varnish, adhesives. In dehumidifying equipments, for dryers of metals, powder, sand paper, plastics, textiles, printing industries, in Hot air ducts, oven etc.

**Long life 'U' finned air heater :-**  
Chrome- Nickel, sheathed heating Element fitted with 35mm Ø MS Finns on top with adjustable brackets and heavy duty brass terminals.

**Uses :-** In recirculating ovens, comfort heaters, air ducts, industrial processes, load resistors, humidity control units and sauna bath heaters.

Type	Watts	Volts	Length	Height	Breadth
<b>Long Life 'U' Shape Air Heaters (CR-NI Steel Tube)</b>					
UAH/05/250	500	230	250 mm	40	55
UAH/.75/450	750	230	450 mm	40	55
UAH/10/610	1000	230	610 mm	40	55
UAH/10/762	1000	230	762 mm	40	55
UAH/15/610	1500	230	610 mm	40	55
UAH/15/762	1500	230	762 mm	40	55
UAH/15/900	1500	230	900 mm	40	55
UAH/15/1000	1500	230	1000 mm	40	55
UAH/20/1000	2000	230	1000 mm	40	55
<b>Long Life 'U' Shape Finned Heaters (CR-NI Steel Tube) with M.S. Fins</b>					
UAHF/05/250	500	230	250 mm	40	70
UAHF/.75/450	750	230	450 mm	40	70
UAHF/10/610	1000	230	610 mm	40	70
UAHF/10/762	1000	230	762 mm	40	70
UAHF/15/610	1500	230	610 mm	40	70
UAHF/15/762	1500	230	762 mm	40	70
UAHF/15/900	1500	230	900 mm	40	70
UAHF/15/1000	1500	230	1000 mm	40	70
UAHF/20/900	2000	230	900 mm	40	70
UAHF/20/1000	2000	230	1000 mm	40	70

IS:4159



CM/L-7366683

**ALKALI IMMERSION HEATERS For Vertical Use**

Type	Watts at 230 Volts	Vertical Length	Ineffective Length
AIH/10/460	1000	460 mm	150 mm
AIH/20/610	2000	610 mm	150 mm
AIH/30/685	3000	685 mm	305 mm
AIH/40/685	4000	685 mm	305 mm

**Alkali immersion heaters :-** Chrome Nickel sheathed heating elements brazed to C.I. junction box for mounting on side of the vessel, easy to remove & clean.

**Uses :-** Used for heating Alkaline cleaning solution detergents and other alkaline solutions normally corrosive to mild steel (upto 90°C).

**N.B.:** Also available in Titanium Tube & Lead - Bonding





## Girish-heat Brand Heating Elements As Per IS-3724

### STRIP HEATERS



**Strip Heaters** : Made of Kanthal wire, supported in Fluted Refractory, sheathed in rust resisting steel with end tab holes for mounting.

**Uses** :- Provides black heat in ovens. Industrial and commercial heating chambers converters & panel boards.

Type No.	Length	Width	Thick	Fixing Holes Cen to Cen	Load 230V
<b>STRIP HEATERS Popular Model (Refractory Insulated)</b>					
SER-12	305 mm	38 mm	9.5 mm	280 mm	500W
SER-15	380 mm	38 mm	9.5 mm	355 mm	500W
SER-18	457 mm	38 mm	9.5 mm	432 mm	750W
SER-21	533 mm	38 mm	9.5 mm	508 mm	1000W
SER-24	610 mm	38 mm	9.5 mm	585 mm	1000W
SER-27	685 mm	38 mm	9.5 mm	660 mm	1000W
SER-30	762 mm	38 mm	9.5 mm	735 mm	1500W
SER-36	915 mm	38 mm	9.5 mm	890 mm	2000W
<b>STRIP HEATERS Heavy Duty Model (Refractory Insulated)</b>					
SEHD-12	305 mm	45 mm	11 mm	280 mm	500W
SEHD-15	380 mm	45 mm	11 mm	355 mm	500W
SEHD-18	457 mm	45 mm	11 mm	432 mm	750W
SEHD-21	533 mm	45 mm	11 mm	508 mm	1000W
SEHD-24	610 mm	45 mm	11 mm	585 mm	1000W
SEHD-27	685 mm	45 mm	11 mm	660 mm	1000W
SEHD-30	762 mm	45 mm	11 mm	735 mm	1500W
SEHD-36	915 mm	45 mm	11 mm	890 mm	2000W
<b>STRIP HEATERS For Panel Board (Refractory Insulated)</b>					
SER-09-SP	228 mm	38 mm	9.5 mm	203 mm	40W, 60W, 100W
SER-12-SP	305 mm	38 mm	9.5 mm	280 mm	40W, 60W, 100W, 250W

### FINNED STRIP HEATERS

Type No.	Length	Thick	Width	Holes Centre	Load 230 V
SERF-9	228mm (09")	35 mm	65 mm	203 mm	500 W
SERF-12	305mm (12")	35 mm	65 mm	280 mm	500 W/750 W
SERF-15	380mm (15")	35 mm	65 mm	355 mm	500 W/750 W/1000 W
SERF-18	457mm (18")	35 mm	65 mm	432 mm	500 W/750 W/1000 W
SERF-21	533mm (21")	35 mm	65 mm	508 mm	1000 W/ 1250 W
SERF-24	610mm (24")	35 mm	65 mm	585 mm	1000 W/1250 W/1500 W
SERF-27	686mm (27")	35 mm	65 mm	661 mm	1000 W/1500 W/2000 W
SERF-30	762mm (30")	35 mm	65 mm	737 mm	1000 W/2000 W/3000 W
SERF-33	838mm (33")	35 mm	65 mm	813 mm	2000 W/2500 W/3000 W
SERF-36	915mm (36")	35 mm	65 mm	890 mm	2000 W/ 3000 W
SERF-42	1066mm (42")	35 mm	65 mm	1041 mm	3000 W
SERF-48	1220mm (48")	35 mm	65 mm	1195 mm	3000 W/3500 W/4000 W



**Finned Strip Heaters** : Basically a Heavy Duty strip heater with locked on fins for fast transfer of heat to air.

**Uses** :- In forced air ducts, blowers units, ovens, dryers etc. Preferably Horizontal Mounting.

*N.B.: Finned Strip heaters of higher wattage in length are for low temperature use only.*

### SILICA CASED IMMERSION HEATERS (Re-Wireable)



**Silica Cased immersion Heater** :- Made of imported fused silica tubing with remountable heating element inside, provided with heat resistant rubber cap and a connecting cable.

**Uses** :- Highest temperatures in all acids, ferric chloride etching baths, anodising, bright dip baths, except hydrofluoric and phosphoric.

Type	Watts at 230 Volts	Heating Length Total		
		Ineffective	Effective	
SIL/10/450	1000	150 mm	300 mm	450 mm
SIL/20/600	2000	150 mm	450 mm	600 mm
SIL/30/750	3000	150 mm	600 mm	750 mm
SIL/40/900	4000	150 mm	750 mm	900 mm

### IMMERSION HEATER For Horizontal Use (Re-Wireable)

Type	Sheathing	Watts	Volts	Depth Immer.
SSBT/10/300	Stainless	1000	230	300 mm
SSBT/15/300	Steel Tube	1500	230	300 mm
SSBT/20/450	with 2" BSPT	2000	230	450 mm
SSBT/20/600	S.S.Flange	2000	230	600 mm
SSBT/30/600	"	3000	230/400Y	600 mm
SSBT/30/750	"	3000	230/400Y	750 mm
SSBT/40/750	"	4000	230/400Y	750 mm
SSBT/40/900	"	4000	230/400Y	900 mm
SSBT/50/900	"	5000	230/400Y	900 mm
MSBT/10/300	Mild Steel	1000	230	300 mm
MSBT/15/300	Tube with	1500	230	300 mm
MSBT/20/450	2" BSPT	2000	230	450 mm
MSBT/30/600	C.I. Flange	3000	230/400Y	600 mm
MSBT/40/750	"	4000	230/400Y	750 mm
MSBT/50/900	"	5000	230/400Y	900 mm



**Immersion Heaters For Horizontal use (Re-wireable, Bobbin type)** :- Made from M.S./S.S. pipe welded with C.I./S.S. flange with replaceable refractory insulated heating element inside.  
**Uses** :- To heat water, oil, food stuff, alkaline solutions, anodising and plating baths etc.





IS:4159



CM/L-7366683

**IMMERSION HEATERS For Vertical Use (Re-Wireable)**

**Immersion Heater for vertical use (Re-wireable, Bobbin type) :-**  
Made from M.S./S.S. Titanium or Lead bonded pipe with clamp plate, with replaceable refractory insulated heating element inside.

**Uses :-** In water, oil, foodstuff, alkaline solutions, anodising and plating baths etc. Lead Bonded heaters are used in phosphoric acid, chromic acid etc. Titanium heaters are used in Nitric and chromic acid solutions etc.

Type	Watts 230 V	Sheathing	Heating Ineffect	Length Effect	Total Length	Fixing Clamp
TIT/10/450	1000	Titanium	150mm	300mm	450mm	75x100
TIT/20/600	2000	"	150mm	450mm	600mm	mmxmm
TIT/30/750	3000	"	150mm	600mm	750mm	" "
TIT/40/900	4000	"	150mm	750mm	900mm	" "
SSBV/10/300	1000	Stainless Steel	100mm	200mm	300mm	100x125
SSBV/15/450	1500	"	150mm	300mm	450mm	mmxmm
SSBV/20/600	2000	"	150mm	450mm	600mm	" "
SSBV/30/750	3000	"	150mm	600mm	750mm	" "
SSBV/40/900	4000	"	150mm	750mm	900mm	" "
LBBV/10/300	1000	Lead Bonded	100mm	200mm	300mm	" "
LBBV/15/450	1500	"	150mm	300mm	450mm	" "
LBBV/20/600	2000	"	150mm	450mm	600mm	" "
LBBV/30/750	3000	"	150mm	600mm	750mm	" "
LBBV/40/900	4000	"	150mm	750mm	900mm	" "
MSBV/10/300	1000	Mild Steel	100mm	200mm	300mm	" "
MSBV/15/450	1500	"	150mm	300mm	450mm	" "
MSBV/20/600	2000	"	150mm	450mm	600mm	" "
MSBV/30/750	3000	"	150mm	600mm	750mm	" "
MSBV/40/900	4000	"	150mm	750mm	900mm	" "

**CARTRIDGE HEATERS Incased in Brass Sheath**

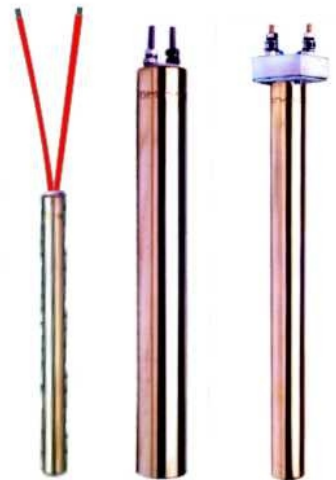
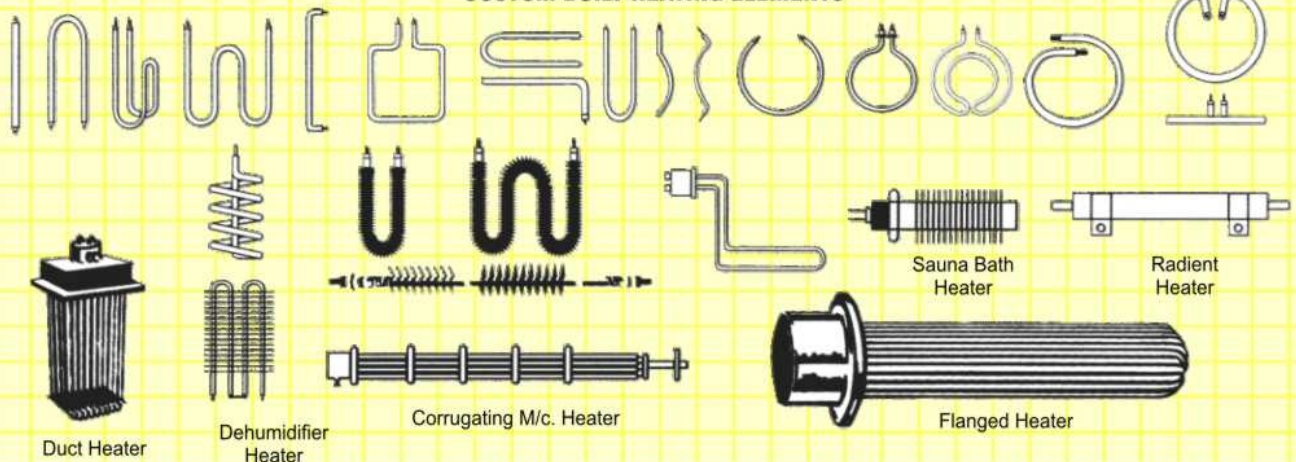
Length	3/8"Ø Max Watts	1/2"Ø Max Watts	5/8"Ø Max Watts	3/4"Ø Max Watts	7/8"Ø Max Watts	1"Ø Max Watts	1 1/4"Ø Max Watts
2 1/2"	85w	100w	150w	150w	175w	200w	—
3"	100w	125w	175w	175w	200w	225w	—
3 1/2"	120w	150w	200w	225w	250w	275w	—
4"	140w	175w	225w	250w	275w	300w	500w
4 1/2"	150w	200w	250w	275w	325w	350w	500w
5"	175w	225w	275w	300w	350w	400w	500w
5 1/2"	190w	250w	300w	350w	400w	450w	500w
6"	200w	275w	325w	375w	425w	475w	500w
7"	250w	300w	375w	450w	500w	500w	750w
8"	275w	350w	450w	500w	550w	600w	750w
9"	300w	400w	475w	550w	625w	700w	1000w
10"	350w	450w	550w	625w	700w	800w	1000w
11"	375w	500w	600w	700w	800w	875w	1000w
12"	400w	550w	650w	750w	850w	950w	1500w
15"	—	—	800w	950w	1050w	1200w	—
18"	—	—	1000w	1100w	1250w	1400w	—
24"	—	—	1300w	1500w	1700w	1900w	—

**Cartridge Heaters :-** It is a brass tube sheathed refractory insulated heater provided with 4" Long Beaded wire for terminals.

**Uses :-** In dies moulds, platens, revolving rolls, plastic injection and extrusion barrels, carton making machines & shoe making machines etc.

**NOTE :**

1. Wattage are given at 230 volts, it can be supplied in any voltages.
2. Can be supplied in any minimum wattage.
3. 1 1/4" heater has screw type terminals.
4. Can be made in S.S., M.S. or Incoloy tubes.
5. Can be made in 7/16"Ø, 9/16"Ø, 11/16"Ø, 15/16"Ø, 2"Ø and any mm size diameter tube.
6. Can be provided with fibre glass wire, Teflon wire or Teflon sleeve in any length.
7. Can be provided with Porcelain Terminal Block in 3/4"Ø to 1"Ø heaters.

**CUSTOM BUILT HEATING ELEMENTS**

Mfrs. &amp; Exporters:

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