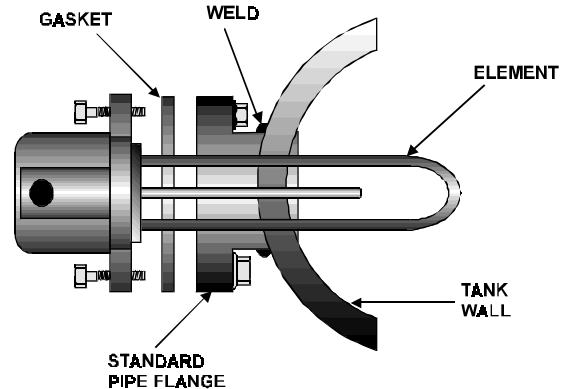


## FLANGED HEATERS



### FEATURES

- 150 lb. ASA carbon steel flanges from 3" to 14" sizes .430" diameter copper, steel, 321 stainless steel, or Incoloy 800 elements
- 45, 22, 15, 13 and 6.5 watts/square inch for various processes
- General purpose, moisture or explosion resistant terminal enclosures
- Thermowell for 3/8" diameter thermostat bulb
- Bends are repressed after forming to recompact MgO and extend element life
- Instruction Manual with wiring instructions included with each unit

### APPLICATIONS

**Copper Sheath:** Clean water, freeze protection, hot water storage, boiler and water heaters, cooling towers, heating of solutions not corrosive to copper

**Steel Sheath:** Asphalt, wax, paraffin, tar, fluid heat transfer medium, petroleum, degreasing and solvent, oils, fuel oils, machine oils, alcohol

**Stainless Steel Sheath:** Process water, soap and detergent solutions, soluble cutting oils, demineralized or deionized water (passivation recommended)

**Incoloy Sheath:** Solution water, corrosive solutions, air, gas, steam super heating

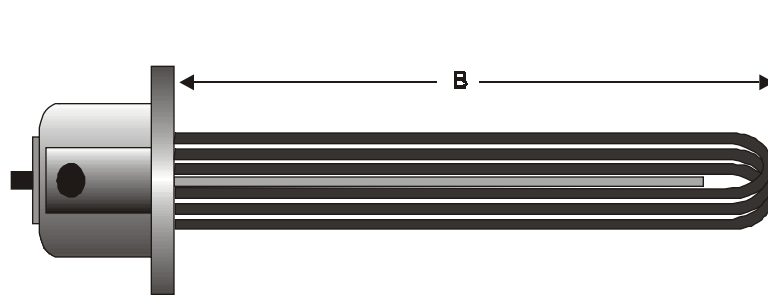
### CONSTRUCTION

Tubular heaters are brazed or welded into a standard pipe flange. 3", 4", 5", 6", 8", 10", 12" and 14" are standard sizes. Flanged Immersion heaters are used in large capacity vessels, in high pressure applications and are installed by bolting the unit to a matching flange welded to the vessel wall. Be certain that the sheath material and watt density selected are compatible with the material being heated and the operating temperature.

### OPTIONS

- Special rating or immersion length
- 316 stainless steel or other sheath material
- Passivation
- Electropolishing
- 300 lb. ASA flange
- Other material for flange
- Built-in thermostat
- Thermocouple attached to sheath for high-limit protection
- Baffles to increase material flow velocity
- Larger flange sizes

# STANDARD FLANGE HEATERS



## 3 -150# STEEL FLANGE

WATTS (kW)	"B" (in)	WATT DENSITY (WSI)	VOLTS	INCOLOY SHEATH	COPPER SHEATH
6	18	61	120,208,240,600	IM3FI-18-6-01	IM3FC-18-6-01
9	26	56	120,208,240,600	IM3FI-26-9-01	IM3FC-26-9-01
12	33	55	120,208,240,600	IM3FI-33-12-01	IM3FC-33-12-01
15	40	55	120,208,240,600	IM3FI-40-15-01	IM3FC-40-15-01
3	18	31	120,208,240,600	IM3FI-18-3-01	
4.5	26	28	120,208,240,600	IM3FI-26-4.5-01	
6	33	28	120,208,240,600	IM3FI-33-6-01	
7.5	40	27	120,208,240,600	IM3FI-40-7.5-01	
9	48	26	120,208,240,600	IM3FI-48-9-01	
3	33	14	120,208,240,600	IM3FI-33-3-01	
4.5	40	18	120,208,240,600	IM3FI-40-4.5-01	
6	48	18	120,208,240,600	IM3FI-48-6-01	

## 5 -150# STEEL FLANGE

WATTS (kW)	"B" (in)	WATT DENSITY (WSI)	VOLTS	INCOLOY SHEATH	COPPER SHEATH
12	18	61	120,208,240,600	IM5FI-18-12-01	IM5FC-18-12-01
15	22	58	120,208,240,600	IM5FI-22-15-01	IM5FC-22-15-01
18	26	56	120,208,240,600	IM5FI-26-18-01	IM5FC-26-18-01
24	33	55	120,208,240,600	IM5FI-33-24-01	IM5FC-33-24-01
30	40	55	120,208,240,600	IM5FI-40-30-01	IM5FC-40-30-01
36	26	55	120,208,240,600	IM5FI-26-36-01	IM5FC-26-36-01
45	33	55	120,208,240,600	IM5FI-33-45-01	IM5FC-33-45-01

## 6 -150# STEEL FLANGE

WATTS (kW)	"B" (in)	WATT DENSITY (WSI)	VOLTS	INCOLOY SHEATH	COPPER SHEATH
36	26	56	120,208,240,600	IM6FI-36-26-01	IM6FC-36-26-01
48	33	56	120,208,240,600	IM6FI-48-33-01	IM6FC-48-33-01
50	40	56	120,208,240,600	IM6FI-50-40-01	IM6FC-50-40-01
72	48	54	120,208,240,600	IM6FI-72-48-01	IM6FC-72-48-01
90	40	56	120,208,240,600	IM6FI-90-40-01	IM6FC-90-40-01
120	48	71	120,208,240,600	IM6FI-120-48-01	IM6FC-120-48-01
144	48	71	120,208,240,600	IM6FI-144-48-01	IM6FC-144-48-01
18	26	27	120,208,240,600	IM6FI-18-26-01	
24	33	27	120,208,240,600	IM6FI-24-33-01	
30	40	27	120,208,240,600	IM6FI-30-40-01	
36	48	27	120,208,240,600	IM6FI-36-48-01	
48	62	27	120,208,240,600	IM6FI-48-62-01	