

## OVER-THE-SIDE IMMERSION HEATERS FOR MILDLY CORROSIVE FLUIDS



TLS and KTLS Series  
Starts at

- ✓ 2 to 18 kW
- ✓ 120, 240, 480V, 1 and 3 Phase
- ✓ Stainless Steel Sheath and Riser Elements
- ✓ Optional Thermostat Kits are Available to Fit into Terminal Box

### FEATURES

These over-the-side immersion heaters are designed for installing in the top of a tank with the heated portion directly immersed along the side or at the bottom. This provides easy removal of the heater and ample working space inside the tank.

### APPLICATIONS

Alkaline cleaners (electrified), alkaline soaking cleaners, copper sulfate, electroless copper, electro cleaners, mild acid baths, wash tanks dip tanks containing alkali, oakite, caustic soda, detergent and other aqueous solutions

### SPECIFICATIONS

Wattage: 2 to 18 kW  
Power: 120, 240, 480V, 1 & 3  
Watt Density: 40 W/in<sup>2</sup>

### CAUTION AND WARNING!

Fire and electrical shock may result if products are used improperly or installed or used by non-qualified personnel. See inside back cover for additional warnings.



**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

kW	Riser (A) cm (in)	Straight Elements		Curved Elements		Wt. lb (kg)
		Min. Tank Clearance (B)—cm (in)	Model No.	Min. Tank Clearance (B)—cm (in)	Model No.	
<b>Two Elements—Stainless Steel, 40 W/in.<sup>2</sup></b>						
2	91 (36)	31 (12¼)	TLS-220A-036/120	27 (10⅝)	KTLS-220A-036/120	8 (4)
2	91 (36)	31 (12¼)	TLS-220A-036/*	27 (10⅝)	KTLS-220A-036/*	8 (4)
4	91 (36)	57 (22¼)	TLS-240A-036/120	35 (13¾)	KTLS-240A-036/120	8 (4)
4	91 (36)	57 (22¼)	TLS-240A-036/*	35 (13¾)	KTLS-240A-036/*	8 (4)
6	91 (36)	75 (29½)	TLS-260A-036/120	41 (16⅝)	KTLS-260A-036/120	10 (5)
6	91 (36)	75 (29½)	TLS-260A-036/*	41 (16⅝)	KTLS-260A-036/*	10 (5)
8	91 (36)	95 (37⅞)	TLS-280A-036/*	47 (18⅝)	KTLS-280A-036/*	12 (5)
10	121 (48)	103 (45)	TLS-210A-048/*	54 (21¼)	KTLS-210A-048/*	14 (6)
12	121 (48)	133 (52½)	TLS-212A-048/*	59 (23½)	KTLS-212A-048/*	16 (7)
<b>Three Elements—Stainless Steel, 40 W/in.<sup>2</sup></b>						
3	91 (36)	31 (12¼)	TLS-330A-036/120	27 (10⅝)	KTLS-330A-036/120	9 (4)
3	91 (36)	31 (12¼)	TLS-330A-036/240/**	27 (10⅝)	KTLS-330A-036/240/**	9 (4)
3	91 (36)	31 (12¼)	TLS-330A-036/480/**	27 (10⅝)	KTLS-330A-036/480/**	9 (4)
6	91 (36)	57 (22¼)	TLS-360A-036/120	35 (13¾)	KTLS-360A-036/120	10 (5)
6	91 (36)	57 (22¼)	TLS-360A-036/240/**	35 (13¾)	KTLS-360A-036/240/**	10 (5)
6	91 (36)	57 (22¼)	TLS-360A-036/480/**	35 (13¾)	KTLS-360A-036/480/**	10 (5)
9	91 (36)	75 (29½)	TLS-390A-036/240/**	41 (16⅝)	KTLS-390A-036/240/**	12 (5)
9	91 (36)	75 (29½)	TLS-390A-036/480/**	41 (16⅝)	KTLS-390A-036/480/**	12 (5)
12	121 (48)	95 (37⅞)	TLS-312A-048/240/**	47 (18⅝)	KTLS-312A-048/240/**	14 (6)
12	121 (48)	95 (37⅞)	TLS-312A-048/480/**	47 (18⅝)	KTLS-312A-048/480/**	14 (6)
15	121 (48)	103 (45)	TLS-315A-048/240/**	54 (21¼)	KTLS-315A-048/240/**	16 (7)
15	121 (48)	103 (45)	TLS-315A-048/480/**	54 (21¼)	KTLS-315A-048/480/**	16 (7)
18	121 (48)	133 (52½)	TLS-318A-048/240/**	60 (23½)	KTLS-318A-048/240/**	18 (8)
18	121 (48)	133 (52½)	TLS-318A-048/480/**	60 (23½)	KTLS-318A-048/480/**	18 (8)

\* Designate voltage, i.e. insert "240" for 240V for "480V" for 480V. \*\* Add the suffix "3P" to the model number for 3 phase power.

Optional thermostat kits are available to fit into heater terminal box.

Ordering Examples: TLS-220A-036/240, 2 kW heater powered by 1 phase 240 Vac,  
TLS-330A-036/240/3P, 3 kW heater powered by 3 phase 240 Vac,



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