

## Over-the-Side Immersion Heaters

### Overview

#### Description

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. These heaters are available with heating elements made of Copper, Steel, Stainless Steel, Cast Iron, INCOLOY®, Titanium, Fluoropolymer coated, and Quartz. A wide selection of kW ratings, shapes and mounting methods are available to suit many different types of applications.



OVER-THE-SIDE

#### Over-the-Side Immersion Heaters — Selection Guidelines

Configuration	Model	Sheath Material	Typ. Watt Density	Phase	See Note	
<b>L-Shaped</b> This type of heater puts the heat at the bottom of the tank. The vertical riser is unheated so lower liquid levels are acceptable. Many types of heating element materials are available along with various riser heights and element configurations. Legs are provided at the bottom of most heaters to prevent direct contact of the heating elements with the bottom of the tank.	KBLS	304SS	11	1	1	
	TLS, KTLS	304SS	40	1 or 3	1	
	GSL	316SS	20 and 40	1	2	
	GSL3, GSV3	316SS	20 and 40	3	2	
	CIT	Cast Iron	20	1	—	
	TLC, KTLC	Copper	40	1 or 3	1	
	TBL	INCOLOY®	20	1	—	
	TLI	INCOLOY®	40	1 or 3	1	
	KTLI	INCOLOY®	40	1	1	
	KBLC	Steel	11	1	1	
	TBL	Steel	20	1	—	
	TLO, KTLO	Steel	20	1 or 3	1	
	BLCK-MH	Steel	12 and 18	1 or 3	1	
	BLCS	Steel	12 and 18	1 or 3	—	
	GTFL, GXFL	Fluoropolymer	10	1	2	
	GTFNL3	Fluoropolymer	10	3	2	
	GTL	Titanium	20 and 40	1	2	
	GTL3, GTV3	Titanium	20 and 40	3	2	
	<b>Side Mount/Top Mount</b> This heater is placed on the side of the tank with mounting brackets for easy installation. A cold section is provided at the top of the heater for various levels of liquid in the tank (consult heater specification tables for the specific length of the cold section). Low profile side mounted heaters provide more working space in the heated tank.	PTHF	304SS	20	3	2
		CTSS	304SS	25 and 40	1	—
PTH		316SS	30	1	—	
GS		316SS	20 and 40	1	2	
GS3		316SS	20 and 40	1 or 3	2	
CTAC		Carp 20 SS	25 and 40	1	—	
CS		Ceramic-SIAION	70	1 - 3	—	
CH-OTS		Copper	60	1	3	
CTC		Copper	25 and 40	1	—	
QM		Quartz	25	1	2	
QM3		Quartz	25	1 or 3	2	
GTF, GXF		Fluoropolymer	10	1	2	
GTF6, GTF9		Fluoropolymer	10	3	2	
TPR		Fluoropolymer	20	1	2	
TPF		Fluoropolymer	20	3	2	
PTHT		Titanium	20	1	—	
CTT		Titanium	44	1	—	
GT	Titanium	20 and 40	1	2		
<b>Heat/Cool Exchangers</b> Side mounted metal or fluoropolymer coils provide heat or cooling of tanks from remote mounted heating or cooling sources.	GT3	Titanium	20 and 40	1 or 3	2	
	GHTF	Fluoropolymer	N/A	N/A	—	
	GRS	316SS	N/A	N/A	—	
	GRT	Titanium	N/A	N/A	—	
	US	316SS	N/A	N/A	—	
	UT	Titanium	N/A	N/A	—	

1. Optional Integral Thermostat - requires wiring to remote relay (not included).
2. Integral Overheat Thermal Protection - requires wiring to remote relay (not included).
3. Integral Thermostat and Cutout.