

S13 SERIES, TRIPLE METAL OVER-THE-SIDE HEATERS							
WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	304 STAINLESS MODEL NUMBER	316 STAINLESS MODEL NUMBER	TITANIUM MODEL NUMBER	SHIP WEIGHT
		In./(mm)	In./(mm)				Lbs./(kg)
3000	200-240	7 (178)	11 (279)	S13F3211	S13S3211	S13T3211	21 (9.5)
6000	200-240	13 (330)	17 (432)	S13F6217	S13S6217	S13T6217	30 (13.6)
9000	200-240	18 (457)	23 (584)	S13F9223	S13S9223	S13T9223	33 (15)
12000	200-240	24 (610)	29 (737)	S13F12229	S13S12229	S13T12229	39 (17.7)
15000	200-240	30 (762)	35 (889)	S13F15235	S13S15235	S13T15235	45 (20.4)
18000	200-240	35 (889)	41 (1041)	S13F18241	S13S18241	S13T18241	51 (23.1)
2400	380-480	7 (178)	11 (279)	S13F2.4411	S13S2.4411	S13T2.4411	21 (9.5)
4800	380-480	13 (330)	17 (432)	S13F4.8417	S13S4.8417	S13T4.8417	30 (13.6)
7200	380-480	18 (457)	23 (584)	S13F7.2423	S13S7.2423	S13T7.2423	33 (15)
9600	380-480	24 (610)	29 (737)	S13F9.6429	S13S9.6429	S13T9.6429	39 (17.7)
12000	380-480	30 (762)	35 (889)	S13F12435	S13S12435	S13T12435	45 (20.4)
14400	380-480	35 (889)	41 (1041)	S13F14.4441	S13S14.4441	S13T14.4441	51 (23.1)
16800	380-480	41 (1041)	47 (1194)	S13F16.8447	S13S16.8447	S13T16.8447	70 (31.8)

Three phase standard, add -1 for single phase.

S13 Series, Metal Over the Side Heater Features and Benefits:

LONG LIFE ELEMENT:

- Patented PTC heater element lasts longer than conventional heaters.
- Will not burn out due to scale or sludge buildup or if run in air.

SAFE DESIGN:

- Heater self limits its maximum operating temperature to 482°F (250°C). This is lower than the ignition point of most plastics.
- Will not melt tanks when a 1/2" (12mm) minimum distance is maintained.
- Overtemperature protection devices are not required.
- Safety is built-in, not added on.
- Metal-grounded (earth ground), non-floating construction.

OUTSTANDING PERFORMANCE:

- Watt densities up to 26 watts per square inch (4 w/cm²) ensure long service life.
- Auto-stabilizing solid state element prevents hot spots and ensures uniform heating.
- Heater derates itself in highly viscous and high temperature solutions. Consult factory for sizing assistance.

CORROSION RESISTANT HEAD:

 Vapor resistant, flame retardant polypropylene termimal enclosure with 3 ft (.9m) flexible PVC liquid tight conduit.

CHEMICALLY RESISTANT:

For use in most aqueous alkaline, electroplating and rinse solutions. Check solution recommendation chart with your chemical supplier for proper sheath material selection.

- 304 stainless steel.
- 316 stainless steel.
- Titanium.

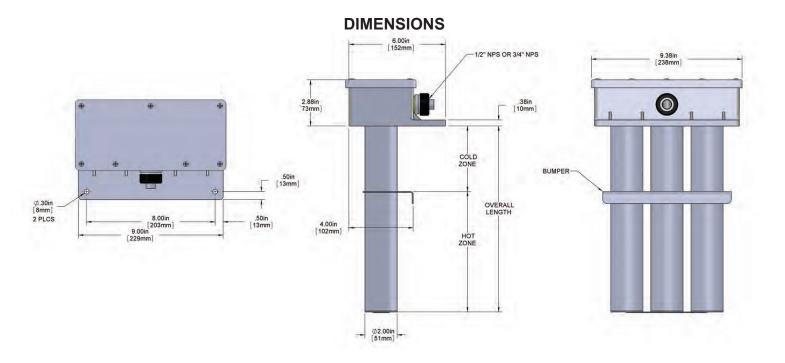
CERTIFICATIONS: cULus listed and CE compliant.

SIZES: 3,000 watts to 18,000 watts.

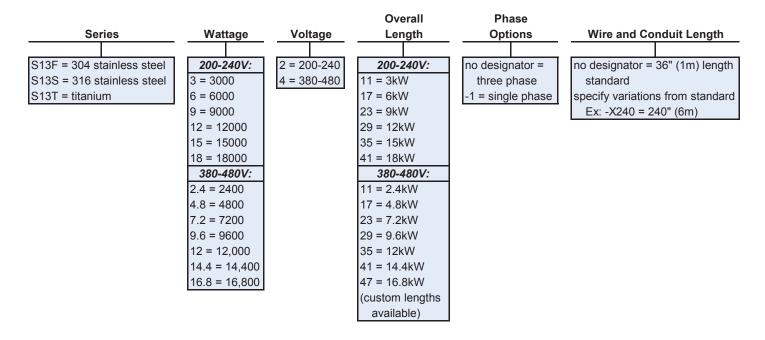
VOLTAGES: 200-240 volt, and 380-480 volt. Single or three phase power.

OPTIONS AVAILABLE (consult factory):

- Special configurations and lengths.
- Longer wire and conduit lengths.
- All metal welded junction box.
- Temperature and level controls sized to match the heater (sold separately).



SINGLE TUBE S1, OVER THE SIDE HEATER ORDERING INFORMATION



ORDERING EXAMPLE:

S13T3211

Titanium, 3,000 watts, 240 volt, 11" overall length, three phase.

