

Fluoropolymer Heaters, HX Series

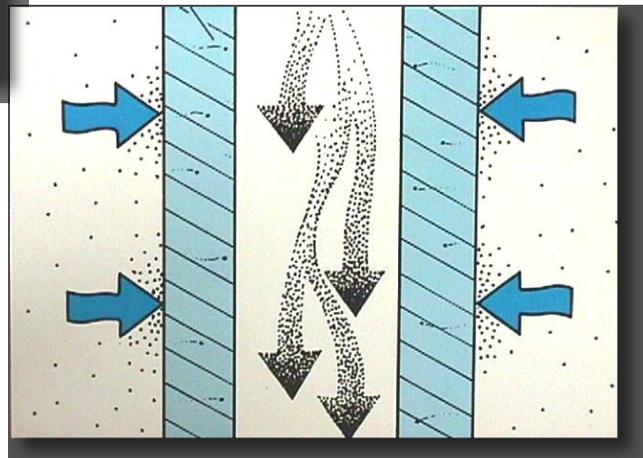
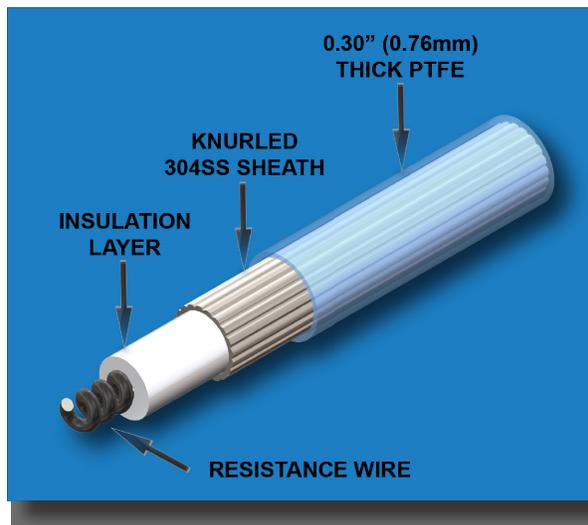
Why Purge?

Although fluoropolymer materials are chemically inert to virtually all solutions, they have absorption and permeation characteristics. Highly aggressive chemistries (especially at higher temperatures and pressures) migrate through the fluoropolymer sheath of an electric heater and attack the stainless steel inner element. This permeation may dramatically shorten the heater's operating life.

Process Technology's purged element design releases a flow of gas to purge the environment surrounding the heating element. The gas flow sweeps away internal moisture and entrapped particles that accumulate due to permeation through the heater sheath. This patented feature resolves the permeability problem and promotes a longer heater life.

Benefits

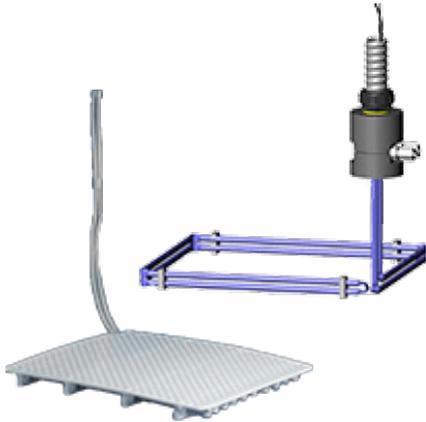
- Easy purge hookup since nitrogen supply is already available in most fabs.
- Backpressure detection a plus if incorporating flow control with backpressure monitor.
- Cleans away harmful permeation!



Patented purge feature available on all of our fluoropolymer heaters!

Fluoropolymer Heaters, TF Series

Designed for high purity chemical heating



Benefits

- Constructed with our exclusive patented N₂ “purged” elements for extended service life.
- High efficiency in a compact design, and an excellent alternative for replacing strip heaters on quartz tanks.
- TFB for bottom heater applications, and TFW for inside tank wall requirements.
- All wetted parts are fluoropolymer and compatible with virtually any chemistry for unlimited process options. (Not to be used with flammable solutions.)
- Low watt density design promotes process temperature uniformity.

Specifications

Wattages: 500 watts to 12,000 watts

Voltages: 120 - 600 volts, single or three phase

Watt Density: Up to 10 watts per square inch (1.5w/cm²)

Operating Temperature: Up to 130°C (266°F). (Consult factory for higher temperatures)

For complete information on the TF Series Fluoropolymer Heater, click on the link or scan the QR code below. <https://www.processstechnology.com/TFB.html>

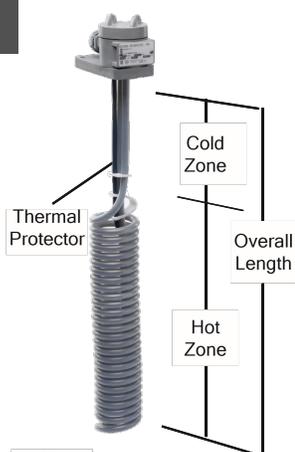


Fluoropolymer Heaters, HX Series

Excellent chemical resistance to aggressive acids. 10 watts/sq in (1.5 w/cm²)

Fluoropolymer Heater Benefits

- Constructed with heavy wall fluoropolymer (PTFE) covered stainless steel element to give you a durable design
- Low watt density design uses minimal space and ensures a long service life
- Over temperature protection included to provide safe operation



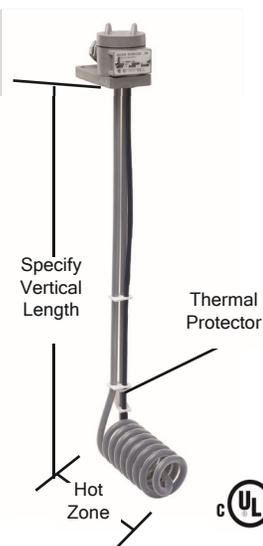
For complete information on the HX Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HX.html>

HX SERIES, SPIRAL FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	HOT ZONE In./(mm)	OVERALL LENGTH In./(mm)	MAX. COLD ZONE In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./kg)
500	120	5	11	41	HX.5111-**	6
	240	(127)	(279)	(1041)	HX.5211-**	(2.7)
1000	120	7	11	41	HX1111-**	7
	240	(178)	(279)	(1041)	HX1211-**	(3.2)
2000	120	12	17	40	HX2117-**	8
	240	(305)	(432)	(1016)	HX2217-**	(3.6)
	480				HX2417-**	
3000	240	16	23	40	HX3223-**	13
	480	(406)	(584)	(1016)	HX3423-**	(5.9)
4000	240	20	29	40	HX4229-**	15
	480	(508)	(737)	(1016)	HX4429-**	(6.8)
5000	240	25	35	36	HX5235-**	18
	480	(635)	(889)	(914)	HX5435-**	(8.2)
6000	240	29	40	30	HX6240-**	21
	480	(737)	(1016)	(762)	HX6440-**	(9.5)
8000	240	37	47	32	2HX8247-**	25
	480	(940)	(1194)	(813)	2HX8447-**	(11.3)
9000	240	44	54	35	2HX9254-**	28
	480	(1118)	(1372)	(889)	2HX9454-**	(12.7)

HXL SERIES, SPIRAL L-SHAPED FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	HOT ZONE In./(mm)	STD. VERT. LENGTH* In./(mm)	MAX. COLD ZONE In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./kg)
500	120	6	12	41	HXL.5106-R-***	6
	240	(152)	(305)	(1041)	HXL.5206-R-***	(2.7)
1000	120	8	12	41	HXL1108-R-***	7
	240	(203)	(305)	(1041)	HXL1208-R-***	(3.2)
2000	120	12	18	40	HXL2112-R-***	8
	240	(305)	(457)	(1016)	HXL2212-R-***	(3.6)
	480				HXL2412-R-***	
3000	240	17	18	40	HXL3217-R-***	13
	480	(432)	(457)	(1016)	HXL3417-R-***	(5.9)
4000	240	20	18	40	HXL4220-R-***	15
	480	(508)	(457)	(1016)	HXL4420-R-***	(6.8)
5000	240	24	18	36	HXL5224-R-***	18
	480	(610)	(457)	(914)	HXL5424-R-***	(8.2)
6000	240	29	18	30	HXL6229-R-***	21
	480	(737)	(457)	(762)	HXL6429-R-***	(9.5)
8000	240	37	18	32	2HXL8237-R-***	26
	480	(940)	(457)	(813)	2HXL8437-R-***	(11.8)
9000	240	44	18	35	2HXL9244-R-***	29
	480	(1118)	(457)	(889)	2HXL9444-R-***	(13.2)



For complete information on the HXL Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HXL.html>

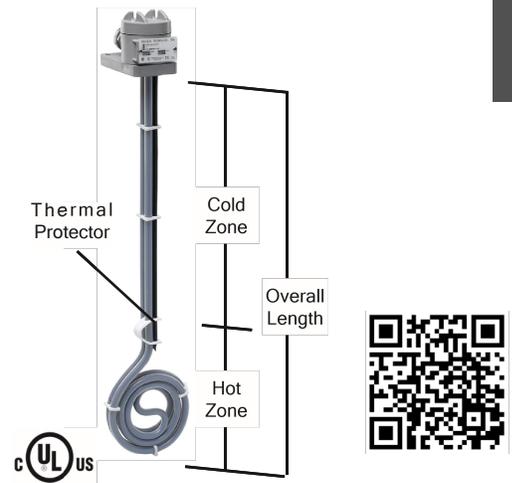
Fluoropolymer Heaters, HXF Series

Excellent chemical resistance to aggressive acids. 10 watts/sq in (1.5 w/cm²)

Immersion
Heaters

HXF SERIES, LOW PROFILE FLUOROPOLYMER (PTFE) HEATERS

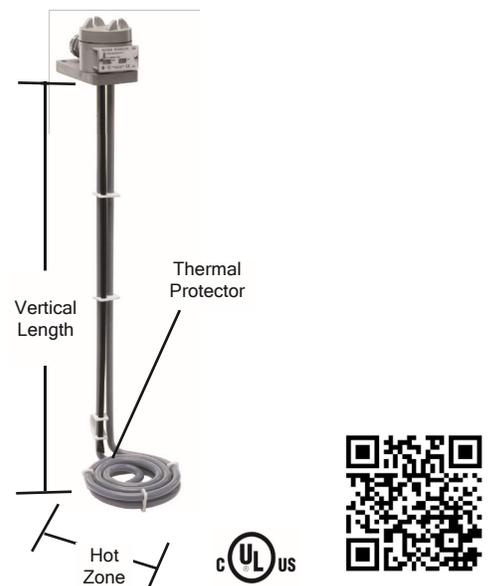
WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	DIA.	MAX. COLD ZONE	MODEL NUMBER	SHIP WGT. Lbs./kg)
		In./(mm)	In./(mm)	In./(mm)	In./(mm)		
500	120	6	14	5	36	HXF.5105-14-**	6
	240	(152)	(356)	(127)	(914)	HXF.5205-14-**	(2.7)
1000	120	7	14	6	36	HXF1106-14-**	7
	240	(178)	(356)	(152)	(914)	HXF1206-14-**	(3.2)
2000	120	9	17	8	35	HXF2108-17-**	8
	240	(229)	(432)	(203)	(889)	HXF2208-17-**	(3.6)
	480					HXF2408-17-**	
3000	240	10	23	9	35	HXF3209-23-**	13
	480	(254)	(584)	(229)	(889)	HXF3409-23-**	(5.9)
4000	240	12	29	11	35	HXF4211-29-**	15
	480	(305)	(737)	(279)	(889)	HXF4411-29-**	(6.8)
5000	240	13	35	12	31	HXF5212-35-**	18
	480	(330)	(889)	(305)	(787)	HXF5412-35-**	(8.2)
6000	240	14	40	13	25	HXF6213-40-**	22
	480	(356)	(1016)	(330)	(635)	HXF6413-40-**	(10)



For complete information on the HXF Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HXF.html>

HXFL SERIES, LOW PROFILE L-SHAPED FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS (See Pg.1)	HOT ZONE	STD. VERT. LENGTH*	DIA.	MAX. COLD ZONE	MODEL NUMBER	SHIP WGT. Lbs./kg)
		In./(mm)	In./(mm)	In./(mm)	In./(mm)		
500	120	5	12	5	36	HXFL.5105-R-***	6
	240	(127)	(305)	(127)	(914)	HXFL.5205-R-***	(2.7)
1000	120	6	12	6	36	HXFL1106-R-***	7
	240	(152)	(305)	(152)	(914)	HXFL1206-R-***	(3.2)
2000	120	8	18	8	35	HXFL2108-R-***	8
	240	(203)	(457)	(203)	(889)	HXFL2208-R-***	(3.6)
	480					HXFL2408-R-***	
3000	240	9	18	9	35	HXFL3209-R-***	13
	480	(229)	(457)	(229)	(889)	HXFL3409-R-***	(5.9)
4000	240	11	18	11	35	HXFL4211-R-***	15
	480	(279)	(457)	(279)	(889)	HXFL4411-R-***	(6.8)
5000	240	12	18	12	31	HXFL5212-R-***	18
	480	(305)	(457)	(305)	(787)	HXFL5412-R-***	(8.2)
6000	240	13	18	13	25	HXFL6213-R-***	22
	480	(330)	(457)	(330)	(635)	HXFL6413-R-***	(10)

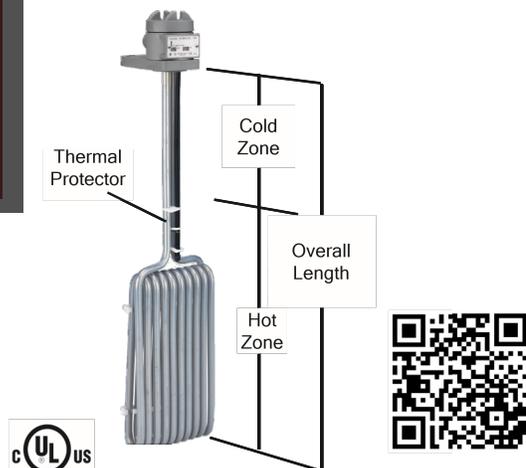


For complete information on the HXFL Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HXFL.html>

Fluoropolymer Heaters, HXO Series

Excellent chemical resistance to aggressive acids. 10 watts/sq in (1.5 w/cm²)

Immersion Heaters

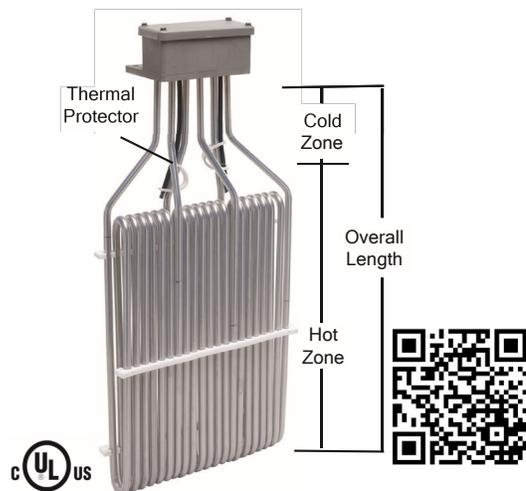


For complete information on the HXO Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HXO.html>

HXO SERIES FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	HEATER PAD LENGTH		HOT ZONE In./(mm)	OVERALL LENGTH In./(mm)	MAX. COLD ZONE In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./kg)
		WIDTH In./(mm)	LENGTH In./(mm)					
500	120	5	6	8	11	36	HXO5105-06-11-11**	6
	240	(127)	(152)	(203)	(279)	(914)	HXO5205-06-11-11**	(2.7)
1000	120	6	6	8	11	36	HXO1106-06-11-11**	7
	240	(152)	(152)	(203)	(279)	(914)	HXO1206-06-11-11**	(3.2)
2000	120	6	10	12	17	35	HXO2106-10-17-11**	8
	240	(152)	(254)	(305)	(432)	(889)	HXO2206-10-17-11**	(3.6)
	480						HXO2406-10-17-11**	
3000	240	6	12	14	23	35	HXO3206-12-23-11**	13
	480	(152)	(305)	(356)	(584)	(889)	HXO3406-12-23-11**	(5.9)
4000	240	6	19	21	29	35	HXO4206-19-29-11**	15
	480	(152)	(483)	(533)	(737)	(890)	HXO4406-19-29-11**	(6.8)
5000	240	6	20	22	35	31	HXO5206-20-35-11**	18
	480	(152)	(508)	(559)	(889)	(787)	HXO5406-20-35-11**	(8.2)
6000	240	6	22	24	40	25	HXO6206-22-40-11**	22
	480	(152)	(559)	(610)	(1016)	(635)	HXO6406-22-40-11**	(10)
8000	240	6	36	38	47	28	2HXO8206-36-47-11**	25
	480	(152)	(914)	(965)	(1194)	(711)	2HXO8406-36-47-11**	(11.3)
9000	240	6	40	42	54	30	2HXO9206-40-54-11**	28
	480	(152)	(1016)	(1067)	(1372)	(762)	2HXO9406-40-54-11**	(12.7)

3HXO SERIES, MULTI ELEMENT FLUOROPOLYMER (PTFE) HEATERS



For complete information on the 3HXO Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/3HXO.html>

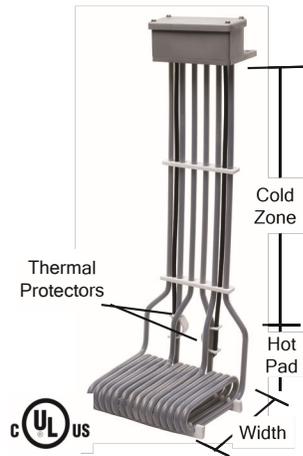
WATTS	VOLTS	HEATER PAD LENGTH		OVERALL LENGTH In./(mm)	MAX. COLD ZONE In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./kg)
		WIDTH In./(mm)	LENGTH In./(mm)				
1500	120	10.5	6	11	36	3HXO1.5110.5-06-11-11**	15
	240	(263)	(152)	(279)	(915)	3HXO1.5210.5-06-11-11**	(6.8)
3000	240	10.5	6	11	36	3HXO3210.5-06-11-11**	20
	480	(263)	(152)	(279)	(915)	3HXO3410.5-06-11-11**	(9.1)
4500	240	10.5	9.5	17	35	3HXO4.5210.9.5-17-11**	21
	480	(263)	(241)	(432)	(890)	3HXO4.5410.9.5-17-11**	(9.5)
6000	240	13	10.5	17	35	3HXO6212-10.5-17-11**	22
	480	(330)	(267)	(432)	(890)	3HXO6412-10.5-17-11**	(10)
9000	240	13	16	23	35	3HXO9212-16-23-11**	36
	480	(330)	(406)	(584)	(890)	3HXO9412-16-23-11**	(16.3)
12000	240	13	20.5	29	35	3HXO12212-20.5-29-11**	42
	480	(330)	(521)	(737)	(890)	3HXO12412-20.5-29-11**	(19.1)
15000	240	13	25	35	31	3HXO15212-25-35-11**	48
	480	(330)	(635)	(889)	(790)	3HXO15412-25-35-11**	(21.8)
18000	240	13	29	40	25	3HXO18212-29-40-11**	54
	480	(330)	(737)	(1016)	(635)	3HXO18412-29-40-11**	(24.5)

Fluoropolymer Heaters, 3HXOL, 3HX Series

Excellent chemical resistance to aggressive acids. 10 watts/sq in (1.5 w/cm²)

3HXOL SERIES, MULTI ELEMENT L-SHAPED FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	WIDTH	HEATER PAD LENGTH	STD. VERT. LENGTH*	MAX. COLD ZONE	MODEL NUMBER	SHIP WGT.
		In./(mm)	In./(mm)	In./(mm)	In./(mm)		Lbs./(kg)
3000	240	8	13	18	36	3HXOL3208-13-R*-**	20
	480	(203)	(330)	(460)	(915)	3HXOL3408-13-R*-**	(9.5)
4500	240	10.5	11	18	35	3HXOL4.5210.5-11-R*-**	21
	480	(263)	(280)	(460)	(890)	3HXOL4.5410.5-11-R*-**	(9.5)
6000	240	10.5	19	18	35	3HXOL6210.5-19-R*-**	22
	480	(263)	(485)	(460)	(890)	3HXOL6410.5-19-R*-**	(10)
9000	240	10.5	23	18	35	3HXOL9210.5-23-R*-**	36
	480	(263)	(585)	(460)	(890)	3HXOL9410.5-23-R*-**	(16.5)
12000	240	10.5	30	18	35	3HXOL12210.5-30-R*-**	42
	480	(263)	(760)	(460)	(890)	3HXOL12410.5-30-R*-**	(19.5)
15000	240	10.5	36	18	31	3HXOL15210.5-36-R*-**	48
	480	(263)	(915)	(460)	(790)	3HXOL15410.5-36-R*-**	(22)
18000	240	10.5	42	18	25	3HXOL18210.5-42-R*-**	54
	480	(263)	(1070)	(460)	(635)	3HXOL18410.5-42-R*-**	(24.5)



For complete information on the 3HXOL Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/3HXOL.html>

3HX SERIES, THREE ELEMENT FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	MODEL NUMBER	SHIP WGT.
		In./(mm)	In./(mm)		Lbs./(kg)
1000	120	10	17	3HX1117-1**	10
	240	(254)	(432)	3HX1217-**	(4.5)
1500	120	16	23	3HX1.5123-1**	11
	240	(406)	(584)	3HX1.5223-**	(5)
	480			3HX1.5423-**	
2000	120	22	29	3HX2129-1**	12
	240	(559)	(737)	3HX2229-**	(5.4)
	480			3HX2429-**	
3000	240	29	35	3HX3235-**	14
	480	(737)	(889)	3HX3435-**	(6.4)
4000	240	39	47	3HX4247-**	17
	480	(991)	(1194)	3HX4447-**	(7.7)
5000	240	48	59	3HX5259-**	20
	480	(1219)	(1499)	3HX5459-**	(9.1)
6000	240	56	68	3HX6268-**	23
	480	(1422)	(1727)	3HX6468-**	(10.4)



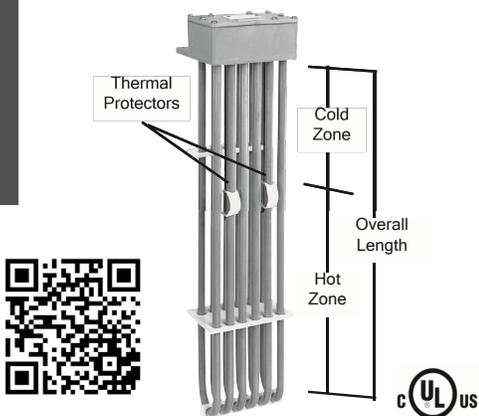
For complete information on the 3HX Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/3HX.html>

Immersion Heaters

Fluoropolymer Heaters, 6 - 9 HX Series

Excellent chemical resistance to aggressive acids. 10 watts/sq in (1.5 w/cm²)

Immersion Heaters



For complete information on the 6HX Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/6HX.html>



6HX SERIES, SIX ELEMENT FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	HOT ZONE In./(mm)	OVERALL LENGTH In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./(kg)
2000	120	9	17	6HX2117-1**	19
	240	(229)	(432)	6HX2217-**	(8.6)
	480			6HX2417-**	
3000	240	15	23	6HX3223-**	22
	480	(381)	(584)	6HX3423-**	(10)
4000	240	21	29	6HX4229-**	24
	480	(533)	(737)	6HX4429-**	(10.9)
6000	240	28	35	6HX6235-**	27
	480	(711)	(889)	6HX6435-**	(12.2)
8000	240	38	47	6HX8247-**	33
	480	(965)	(1194)	6HX8447-**	(15)
10000	240	47	59	6HX10259-**	40
	480	(1194)	(1499)	6HX10459-**	(18.1)
12000	240	55	68	6HX12268-**	45
	480	(1397)	(1727)	6HX12468-**	(20.4)

9HX SERIES, NINE ELEMENT FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	HOT ZONE In./(mm)	OVERALL LENGTH In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./(kg)
3000	240	9	17	9HX3217-**	28
	480	(229)	(432)	9HX3417-**	(12.7)
4500	240	15	23	9HX4.5223-**	33
	480	(381)	(584)	9HX4.5423-**	(15)
6000	240	21	29	9HX6229-**	36
	480	(533)	(737)	9HX6429-**	(16.3)
9000	240	28	35	9HX9235-**	40
	480	(711)	(889)	9HX9435-**	(18.1)
12000	240	38	47	9HX12247-**	49
	480	(965)	(1194)	9HX12447-**	(22.2)
15000	240	47	59	9HX15259-**	60
	480	(1194)	(1499)	9HX15459-**	(27.2)
18000	240	55	68	9HX18268-**	67
	480	(1397)	(1727)	9HX18468-**	(30.4)



For complete information on the 9HX Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/9HX.html>



Fluoropolymer Heaters

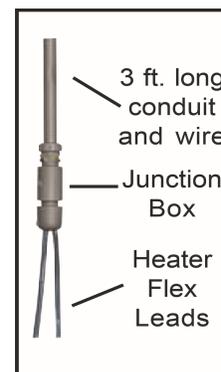
Flexible riser designed to fit in tight spaces. 10 watts/sq in (1.5 w/cm²)

HXRL, HXSL and HXOL heaters are provided with 4' (1.3m) of flexible continuous fluoropolymer leads as standard. Longer lengths are available. Rigid risers can also be provided, consult factory.

IMPORTANT NOTICE:

Flexible lead fluoropolymer covered heaters are normally equipped with a Protector 3 overtemperature device which requires a special P3-A circuit board or appropriate temperature control for proper operation. Do not wire this device as indicated for the Protector 1 (P1) or Protector 2 (P2), as a dangerous short circuit will result.

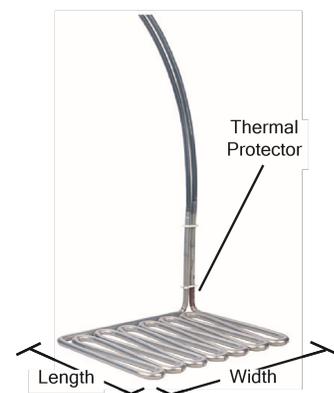
Consult factory and installation instructions for P1 or P2 option on rigid riser models.



Immersion Heaters

HXRL SERIES, FLEX RISER FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	WIDTH In./(mm)	LENGTH In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./(kg)	WATTS	VOLTS	WIDTH In./(mm)	LENGTH In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./(kg)
1000	120	4	19	HXRL1104-19L-**	6	3000	240	18	13	HXRL3218-13L-**	12
		(100)	(485)	HXRL1204-19L-**	(2.5)			480	(330)	HXRL3418-13L-**	(5.5)
1000	120	6	13	HXRL1106-13L-**	6	4000	240	12	25	HXRL4212-25L-**	14
		(155)	(330)	HXRL1206-13L-**	(2.5)			480	(635)	HXRL4412-25L-**	(6.5)
1000	120	8	10	HXRL1108-10L-**	6	4000	240	14	22	HXRL4214-22L-**	14
		(205)	(255)	HXRL1208-10L-**	(2.5)			480	(560)	HXRL4414-22L-**	(6.5)
2000	120	6	25	HXRL2106-25L-**	7	4000	240	16	19	HXRL4216-19L-**	14
		(155)	(635)	HXRL2206-25L-**	(3.5)			480	(485)	HXRL4416-19L-**	(6.5)
				HXRL2406-25L-**		4000	240	18	17	HXRL4218-17L-**	14
2000	120	8	19	HXRL2108-19L-**	7			480	(430)	HXRL4418-17L-**	(6.5)
		(205)	(485)	HXRL2208-19L-**	(3.5)	4000	240	20	15	HXRL4220-15L-**	14
				HXRL2408-19L-**				480	(380)	HXRL4420-15L-**	(6.5)
2000	120	10	15	HXRL2110-15L-**	7	5000	240	12	31	HXRL5212-31L-**	17
		(255)	(380)	HXRL2210-15L-**	(3.5)			480	(790)	HXRL5412-31L-**	(8)
				HXRL2410-15L-**		5000	240	14	27	HXRL5214-27L-**	17
2000	120	12	13	HXRL2112-13L-**	7			480	(685)	HXRL5414-27L-**	(8)
		(305)	(330)	HXRL2212-13L-**	(3.5)	5000	240	16	23	HXRL5216-23L-**	17
				HXRL2412-13L-**				480	(585)	HXRL5416-23L-**	(8)
2000	120	14	11	HXRL2114-11L-**	7	5000	240	18	21	HXRL5218-21L-**	17
		(355)	(280)	HXRL2214-11L-**	(3.5)			480	(535)	HXRL5418-21L-**	(8)
				HXRL2414-11L-**		6000	240	12	36	HXRL6212-36L-**	20
3000	240	10	23	HXRL3210-23L-**	12			480	(915)	HXRL6412-36L-**	(9)
		(255)	(585)	HXRL3410-23L-**	(5.5)	6000	240	14	30	HXRL6214-30L-**	20
								480	(765)	HXRL6414-30L-**	(9)
3000	240	12	19	HXRL3212-19L-**	12	6000	240	16	26	HXRL6216-26L-**	20
		(305)	(485)	HXRL3412-19L-**	(5.5)			480	(660)	HXRL6416-26L-**	(9)
3000	240	14	16	HXRL3214-16L-**	12	6000	240	20	21	HXRL6220-21L-**	20
		(355)	(405)	HXRL3414-16L-**	(5.5)			480	(535)	HXRL6420-21L-**	(9)
3000	240	16	14	HXRL3216-14L-**	12						
		(405)	(355)	HXRL3416-14L-**	(5.5)						

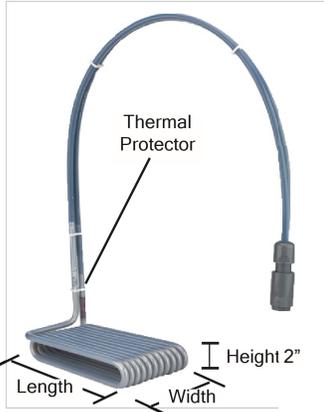


For complete information on the HXRL Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HXRL.html>

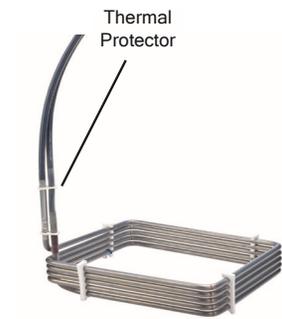
Fluoropolymer Heaters, HXOL, HXSL Series

Flexible riser designed to fit in tight spaces. 10 watts/sq in (1.5 w/cm²)

Immersion Heaters



For complete information on the HXOL Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HXOL.html>



For complete information on the HXSL Series, Fluoropolymer Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HXSL.html>

HXOL SERIES, FLEX RISER FLUOROPOLYMER (PTFE) HEATERS

WATTS	VOLTS	WIDTH In./(mm)	LENGTH In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./ (kg)
1000	120	2	11	HXOL1102-11L-**	6
	240	(50)	(280)	HXOL1202-11L-**	(2.5)
1000	120	4	8	HXOL1104-08L-**	6
	240	(100)	(205)	HXOL1204-08L-**	(2.5)
2000	120	4	13	HXOL2104-13L-**	7
	240	(100)	(330)	HXOL2204-13L-**	(3.5)
	480			HXOL2404-13L-**	
2000	120	5	10	HXOL2105-10L-**	7
	240	(125)	(255)	HXOL2205-10L-**	(3.5)
	480			HXOL2405-10L-**	
2000	120	6	8	HXOL2106-08L-**	7
	240	(155)	(205)	HXOL2206-08L-**	(3.5)
	480			HXOL2406-08L-**	
3000	240	4	18	HXOL3204-18L-**	12
	480	(100)	(460)	HXOL3404-18L-**	(5.5)
3000	240	5	12	HXOL3205-12L-**	12
	480	(125)	(305)	HXOL3405-12L-**	(5.5)
	240	6	11	HXOL3206-11L-**	12
3000	480	(155)	(280)	HXOL3406-11L-**	(5.5)
	240	8	8	HXOL3208-08L-**	12
3000	480	(205)	(205)	HXOL3408-08L-**	(5.5)
	240	5	18	HXOL4205-18L-**	14
4000	480	(125)	(460)	HXOL4405-18L-**	(6.5)
	240	6	14	HXOL4206-14L-**	14
4000	480	(155)	(355)	HXOL4406-14L-**	(6.5)
	240	8	11	HXOL4208-11L-**	14
4000	480	(205)	(280)	HXOL4408-11L-**	(6.5)
	240	6	18	HXOL5206-18L-**	17
5000	480	(155)	(460)	HXOL5406-18L-**	(8)
	240	8	13	HXOL5208-13L-**	17
5000	480	(205)	(330)	HXOL5408-13L-**	(8)
	240	9	11	HXOL5209-11L-**	17
5000	480	(230)	(280)	HXOL5409-11L-**	(8)
	240	10	10	HXOL5210-10L-**	17
5000	480	(255)	(255)	HXOL5410-10L-**	(8)
	240	7	18	HXOL6207-18L-**	20
6000	480	(180)	(460)	HXOL6407-18L-**	(9)
	240	8	15	HXOL6208-15L-**	20
6000	480	(205)	(380)	HXOL6408-15L-**	(9)
	240	9	13	HXOL6209-13L-**	20
6000	480	(230)	(330)	HXOL6409-13L-**	(9)
	240	10	12	HXOL6210-12L-**	20
6000	480	(255)	(305)	HXOL6410-12L-**	(9)
	240	11	11	HXOL6211-11L-**	20
6000	480	(280)	(280)	HXOL6411-11L-**	(9)

HXSL SERIES, FLEX RISER FLUOROPOLYMER (PTFE) HEATERS

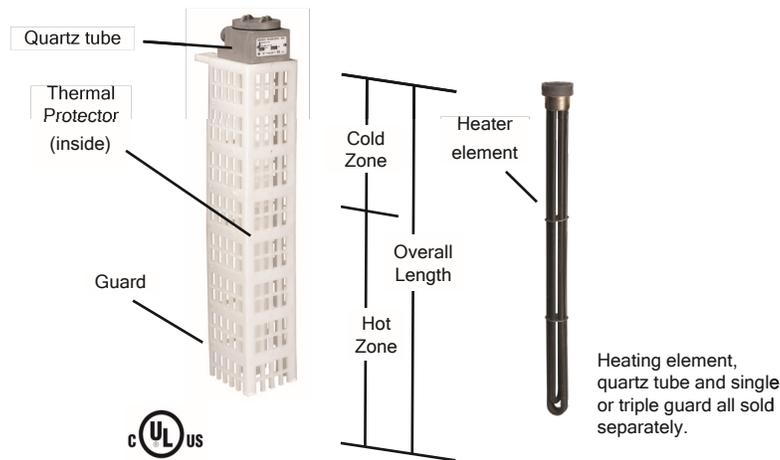
WATTS	VOLTS	WIDTH* Inches	LENGTH* Inches	MODEL NUMBER	SHIP WGT. Lbs./ (kg)
1000	120	*	*	HXSL1**	6
	240	*	*		(2.5)
2000	120	*	*	HXSL2**	7
	240	*	*		(3.5)
	480	*	*		
3000	240	*	*	HXSL3**	12
	480	*	*		(5.5)
4000	240	*	*	HXSL4**	14
	480	*	*		(6.5)
5000	240	*	*	HXSL5**	17
	480	*	*		(8)
6000	240	*	*	HXSL6**	20
	480	*	*		(9)

Quartz Heaters

Heavy wall quartz sheath for acidic solutions. 25 watts/sq in (4 w/cm²)

Quartz Heater Benefits

- Heavy wall quartz sheath with replaceable metal element and polypropylene guards (complete assembly).
- Compatible with many aggressive chemistries.
- Over temperature protection included to provide safe operation.



Immersion Heaters

QM SERIES, QUARTZ HEATERS WITH METAL ELEMENTS						QM & 3QM SERIES GUARDS		SHIP WEIGHT	
WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	ELEMENT MODEL NUMBER	TUBE MODEL NUMBER	SINGLE GUARD MODEL #	TRIPLE GUARD MODEL #	SINGLE ASSEMBLY SHIP WT.	TRIPLE ASSEMBLY SHIP WT.
		In./(mm)	In./(mm)					Lbs./(kg)	Lbs./(kg)
500	120	7	10	QM.5110E	QM.5110J-**	QM10G	3QM10G	9	21
	240	(178)	(254)	QM.5210E	QM.5210J-**			(4.1)	(9.5)
1000	120	7	11	QM1111E	QM1111J-**	QM11G	3QM11G	10	22
	240	(178)	(279)	QM1211E	QM1211J-**			(4.5)	(10)
1000	120	7	17	QM1117E	QM1117J-**	QM17G	3QM17G	11	26
	240	(178)	(430)	QM1217E	QM1217J-**			(5)	(11.8)
2000	240	12	17	QM2217E	QM2217J-**	QM17G	3QM17G	11	26
	480	(305)	(432)	QM2417E	QM2417J-**			(5)	(11.8)
2000	240	12	23	QM2223E	QM2223J-**	QM23G	3QM23G	14	30
	480	(305)	(584)	QM2423E	QM2423J-**			(6.4)	(13.6)
3000	240	18	23	QM3223E	QM3223J-**	QM23G	3QM23G	14	30
	480	(457)	(584)	QM3423E	QM3423J-**			(6.4)	(13.6)
3000	240	18	29	QM3229E	QM3229J-**	QM29G	3QM29G	17	34
	480	(457)	(737)	QM3429E	QM3429J-**			(7.7)	(15.4)
3500	240	21	29	QM3.5229E	QM3.5229J-**	QM29G	3QM29G	17	34
	480	(533)	(737)	QM3.5429E	QM3.5429J-**			(7.7)	(15.4)
4000	240	28	35	QM4235E	QM4235J-**	QM35G	3QM35G	20	38
	480	(711)	(889)	QM4435E	QM4435J-**			(9.1)	(17.2)
4000	240	28	41	QM4241E	QM4241J-**	QM41G	3QM41G	23	44
	480	(711)	(1041)	QM4441E	QM4441J-**			(10.4)	(20)
5000	240	33	41	QM5241E	QM5241J-**	QM41G	3QM41G	23	44
	480	(838)	(1041)	QM5441E	QM5441J-**			(10.4)	(20)
5000	240	33	47	QM5247E	QM5247J-**	QM47G	3QM47G	26	48
	480	(838)	(1194)	QM5447E	QM5447J-**			(11.8)	(21.8)
6000	240	39	47	QM6247E	QM6247J-**	QM47G	3QM47G	26	48
	480	(991)	(1194)	QM6447E	QM6447J-**			(11.8)	(21.8)
6000	240	39	52	QM6252E	QM6252J-**	QM52G	3QM52G	29	52
	480	(991)	(1321)	QM6452E	QM6452J-**			(13.2)	(23.6)
8000	240	49	59	QM8259E	QM8259J-**	QM59G	3QM59G	31	55
	480	(1245)	(1499)	QM8459E	QM8459J-**			(14.1)	(25)
10000	240	62	71	QM10271E	QM10271J-**	QM71G	3QM71G	34	65
	480	(1575)	(1803)	QM10471E	QM10471J-**			(15.4)	(29.5)



For complete information on the QM/3QM Series, Quartz Heater, click on the link or scan the QR code. <https://www.processtechnology.com/QM-3QM.html>

SmartOne™ Max Heaters



Maximum protection built-in!

SmartOne Max Heater Benefits

- Cannot ignite plastic even if operated in air.
- Safety is built in, not added on.
- Heater self limits its maximum operating temperature to 482°F (250°C). This is lower than the ignition point of most plastics.

Immersion Heaters

WATTS	NUMBER OF TUBES	VOLTS	HOT ZONE IN/MM	OVERALL LENGTH IN/MM	304 STAINLESS MODEL NUMBER	316 STAINLESS MODEL NUMBER	TITANIUM MODEL NUMBER	SHIP WGT LBS/KG
500	1	100-250	7 (178)	12 (305)	S1MF.5112-1	S1MS.5112-1	S1MT.5112-1	7 (3.2)
500	1	380-480	9 (229)	14 (356)	S1MF.5212-1	S1MS.5212-1	S1MT.5212-1	8 (3.6)
1000	1	100-250	12 (305)	17 (432)	S1MF.5414-1	S1MS.5414-1	S1MT.5414-1	9 (4.1)
1000	1	380-480	16 (406)	21 (533)	S1MF1117-1	S1MS1117-1	S1MT1117-1	10 (4.5)
1500	1	100-250	17 (432)	22 (559)	S1MF1217-1	S1MS1217-1	S1MT1217-1	10 (4.5)
1500	1	380-480	22 (559)	27 (686)	S1MF2121-1	S1MS2121-1	S1MT2121-1	12 (5.4)
2000	1	200-250	22 (559)	27 (686)	S1MF1.5122-1	S1MS1.5122-1	S1MT1.5122-1	12 (5.4)
2000	1	380-480	29 (737)	34 (864)	S1MF1.5222-1	S1MS1.5222-1	S1MT1.5222-1	14 (6.4)
1000	2	100-250	7 (178)	12 (305)	S1MF2434-1	S1MS2434-1	S1M2T2434-1	9 (4.1)
1000	2	380-480	9 (229)	14 (356)	S1M2F1112-1	S1M2S1112-1	S1M2T1112-1	10 (4.5)
2000	2	200-250	12 (305)	17 (432)	S1M2F1212-1	S1M2S1212-1	S1M2T1212-1	10 (4.5)
2000	2	380-480	16 (406)	21 (533)	S1M2F1414-1	S1M2S1414-1	S1M2T1414-1	12 (5.4)
3000	2	100-250	17 (432)	22 (559)	S1M2F2217-1	S1M2S2217-1	S1M2T2217-1	14 (6.4)
3000	2	380-480	22 (559)	27 (686)	S1M2F2421-1	S1M2S2421-1	S1M2T2421-1	15 (6.8)
4000	2	200-250	22 (559)	27 (686)	S1M2F3222-1	S1M2S3222-1	S1M2T3222-1	18 (8.2)
4000	2	380-480	29 (737)	34 (864)	S1M2F3427-1	S1M2S3427-1	S1M2T3427-1	18 (8.2)
1500	3	100-250	7 (178)	12 (305)	S1M2F4227-1	S1M2S4227-1	S1M2T4227-1	22 (10)
1500	3	380-480	9 (229)	14 (356)	S1M2F4434-1	S1M2S4434-1	S1M2T4434-1	13 (5.9)
3000	3	200-250	12 (305)	17 (432)	S1M3F1.5112-*	S1M3S1.5112-*	S1M3T1.5112-*	15 (6.8)
3000	3	380-480	16 (406)	21 (533)	S1M3F1.5212-*	S1M3S1.5212-*	S1M3T1.5212-*	18 (8.2)
4500	3	200-250	17 (432)	22 (559)	S1M3F1.5427-*	S1M3S1.5427-*	S1M3T1.5427-*	21 (9.5)
4500	3	380-480	22 (559)	27 (686)	S1M3F3217-*	S1M3S3217-*	S1M3T3217-*	23 (10.4)
6000	3	200-250	22 (559)	27 (686)	S1M3F3421-*	S1M3S3421-*	S1M3T3421-*	27 (12.2)
6000	3	380-480	29 (737)	34 (864)	S1M3F4.5222-*	S1M3S4.5222-*	S1M3T4.5222-*	27 (12.2)
3000	6	200-250	7 (178)	12 (305)	S1M3F4.5427-*	S1M3S4.5427-*	S1M3T4.5427-*	34 (15.4)
3000	6	380-480	9 (229)	14 (356)	S1M3F6227-*	S1M3S6227-*	S1M3T6227-*	21 (9.5)
6000	6	200-250	12 (305)	17 (432)	S1M3F6434-*	S1M3S6434-*	S1M3T6434-*	24 (10.9)
6000	6	380-480	16 (406)	21 (533)	S1M6F3212-*	S1M6S3212-*	S1M6T3212-*	30 (13.6)
9000	6	200-250	17 (432)	22 (559)	S1M6F3214-*	S1M6S3214-*	S1M6T3214-*	37 (16.8)
9000	6	380-480	22 (559)	27 (686)	S1M6F6217-*	S1M6S6217-*	S1M6T6217-*	40 (18.1)
12000	6	200-250	22 (559)	27 (686)	S1M6F6421-*	S1M6S6421-*	S1M6T6421-*	49 (22.2)
12000	6	380-480	29 (737)	34 (864)	S1M6F9222-*	S1M6S9222-*	S1M6T9222-*	49 (22.2)
4500	9	200-250	7 (178)	12 (305)	S1M6F9427-*	S1M6S9427-*	S1M6T9427-*	62(28.1)
4500	9	380-480	9 (229)	14 (356)	S1M6F12227-*	S1M6S12227-*	S1M6T12227-*	29 (13.2)
9000	9	200-250	12 (305)	17 (432)	S1M6F12434-*	S1M6S12434-*	S1M6T12434-*	29 (13.2)
9000	9	380-480	16 (406)	21 (533)	S1M9F4.5212-*	S1M9S4.5212-*	S1M9T4.5212-*	33 (15)
13500	9	200-250	17 (432)	22 (559)	S1M9F4.5214-*	S1M9S4.5214-*	S1M9T4.5214-*	43 (19.5)
13500	9	380-480	22 (559)	27 (686)	S1M9F9217-*	S1M9S9217-*	S1M9T9217-*	52 (23.6)
18000	9	200-250	22 (559)	27 (686)	S1M9F9421-*	S1M9S9421-*	S1M9T9421-*	57 (25.6)
18000	9	380-480	29 (737)	34 (864)	S1M9F13.5222-*	S1M9S13.5222-*	S1M9T13.5222-*	71 (32.2)
18000	9	200-250	22 (559)	27 (686)	S1M9F13.5427-*	S1M9S13.5427-*	S1M9T13.5427-*	71 (32.2)
18000	9	380-480	29 (737)	34 (864)	S1M9F18227-*	S1M9S18227-*	S1M9T18227-*	71 (32.2)
18000	9	200-250	22 (559)	27 (686)	S1M9F18434-*	S1M9S18434-*	S1M9T18434-*	90 (40.8)



SMARTONE MAX OVER THE SIDE DIMENSIONS

S1M	S1M2	S1M3	S1M6	S1M9	VOLTAGE	OVERALL LENGTH MM/IN	HOT ZONE MM/IN
500	1000	1500	3000	4500	100-250	305 (12)	178 (7)
500	1000	1500	3000	4500	380-480	356 (14)	229 (9)
1000	2000	3000	6000	9000	100-250	432 (17)	305 (12)
1000	2000	3000	6000	9000	380-480	533 (21)	406 (16)
1500	3000	4500	9000	13500	100-250	559 (22)	432 (17)
1500	3000	4500	9000	13500	380-480	686 (27)	559 (22)
2000	4000	6000	12000	18000	200-250	686 (27)	559 (22)
2000	4000	6000	12000	18000	380-480	864 (34)	305 (29)

For complete information on the SmartOne Max OTS Series Heater, click on the link or scan the QR code. <https://www.processtechnology.com/SmartOneMaxOTS.html>



SmartOne™ Max Heaters

Cannot ignite plastic tanks!

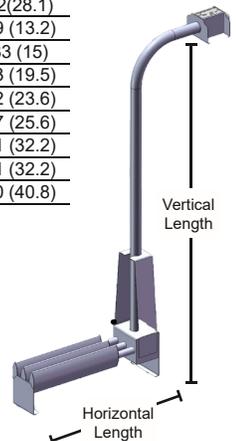


SmartOne Max Heater Benefits

- Cannot ignite plastic even if operated in air.
- Safety is built in, not added on.
- Heater self limits its maximum operating temperature to 482°F (250°C). This is lower than the ignition point of most plastics.

Immersion Heaters

WATTS	NUMBER OF TUBES	VOLTS	HORIZONTAL LENGTH IN/MM	VERTICAL LENGTH IN/MM	304 STAINLESS MODEL NUMBER	316 STAINLESS MODEL NUMBER	TITANIUM MODEL NUMBER	SHIP WGT LBS/KG
500	1	100-250	12 (305)	37 (940)	S1MLF.5112-1-R** S1MLF.5212-1-R**	S1MLS.5112-1-R** S1MLS.5212-1-R**	S1MLT.5112-1-R** S1MLT.5212-1-R**	7 (3.2)
500	1	380-480	14 (356)	37 (940)	S1MLF.5414-*R**	S1MLS.5414-*R**	S1MLT.5414-*R**	8 (3.6)
1000	1	100-250	17 (432)	37 (940)	S1MLF1117-1-R** S1MLF1217-1-R**	S1MLS1117-1-R** S1MLS1217-1-R**	S1MLT1117-1-R** S1MLT1217-1-R**	9 (4.1)
1000	1	380-480	21 (533)	37 (940)	S1MLF1421-1-R**	S1MLS1421-1-R**	S1MLT1421-1-R**	10 (4.5)
1000	2	100-250	12 (305)	37 (940)	S1M2LF1112-1-R** S1M2LF1212-1-R**	S1M2LS1112-1-R** S1M2LS1212-1-R**	S1M2LT1112-1-R** S1M2LT1212-1-R**	10 (4.5)
1000	2	380-480	14 (356)	37 (940)	S1MLF2414-1-R**	S1MLS2414-1-R**	S1MLT2414-1-R**	12 (5.4)
1500	1	100-250	22 (559)	37 (940)	S1MLF1.5122-1-R** S1MLF1.5222-1-R**	S1MLS1.5122-1-R** S1MLS1.5222-1-R**	S1MLT1.5122-1-R** S1MLT1.5222-1-R**	12 (5.4)
1500	1	380-480	27 (686)	37 (940)	S1MLF1.5427-1-R**	S1MLS1.5427-1-R**	S1MLT1.5427-1-R**	14 (6.4)
1500	3	100-250	12 (305)	37 (940)	S1M3LF1.5112-*R** S1M3LF1.5212-*R**	S1M3LS1.5112-*R** S1M3LS1.5212-*R**	S1M3LT1.5112-*R** S1M3LT1.5212-*R**	9 (4.1)
1500	3	380-480	14 (356)	37 (940)	S1M3LF1.5414-*R**	S1M3LS1.5414-*R**	S1M3LT1.5414-*R**	10 (4.5)
2000	1	200-250	27 (686)	37 (940)	S1MLF2227-1-R**	S1MLS2227-1-R**	S1MLT2227-1-R**	12 (5.4)
2000	1	380-480	34 (864)	37 (940)	S1MLF2434-1-R**	S1MLS2434-1-R**	S1MLT2434-1-R**	14 (6.4)
2000	2	200-250	17 (432)	37 (940)	S1M2LF2217-1-R**	S1M2LS2217-1-R**	S1M2LT2217-1-R**	15 (6.8)
2000	2	380-480	21 (533)	37 (940)	S1M2LF2421-1-R**	S1M2LS2421-1-R**	S1M2LT2421-1-R**	18 (8.2)
3000	2	200-250	22 (559)	37 (940)	S1M2LF3222-1-R**	S1M2LS3222-1-R**	S1M2LT3222-1-R**	18 (8.2)
3000	2	380-480	27 (686)	37 (940)	S1M2LF3427-1-R**	S1M2LS3427-1-R**	S1M2LT3427-1-R**	22 (10)
3000	3	200-250	17 (432)	37 (940)	S1M3LF3217-*R**	S1M3LS3217-*R**	S1M3LT3217-*R**	13 (5.9)
3000	3	380-480	21 (533)	37 (940)	S1M3LF3421-*R**	S1M3LS3421-*R**	S1M3LT3421-*R**	15 (6.8)
3000	6	200-250	12 (305)	37 (940)	S1M6LF3212-*R**	S1M6LS3212-*R**	S1M6LT3212-*R**	18 (8.2)
3000	6	380-480	14 (356)	37 (940)	S1M6LF3414-*R**	S1M6LS3414-*R**	S1M6LT3414-*R**	21 (9.5)
4000	2	200-250	27 (686)	37 (940)	S1M2LF4227-1-R**	S1M2LS4227-1-R**	S1M2LT4227-1-R**	23 (10.4)
4000	2	380-480	34 (864)	37 (940)	S1M2LF4434-1-R**	S1M2LS4434-1-R**	S1M2LT4434-1-R**	27 (12.2)
4500	3	200-250	22 (559)	37 (940)	S1M3LF4.5222-*R**	S1M3LS4.5222-*R**	S1M3LT4.5222-*R**	27 (12.2)
4500	3	380-480	27 (686)	37 (940)	S1M3LF4.5427-*R**	S1M3LS4.5427-*R**	S1M3LT4.5427-*R**	34 (15.4)
4500	9	200-250	12 (305)	37 (940)	S1M9LF4.5212-*R**	S1M9LS4.5212-*R**	S1M9LT4.5212-*R**	21 (9.5)
4500	9	380-480	14 (356)	37 (940)	S1M9LF4.5414-*R**	S1M9LS4.5414-*R**	S1M9LT4.5414-*R**	24 (10.9)
6000	3	200-250	27 (686)	37 (940)	S1M3LF6227-*R**	S1M3LS6227-*R**	S1M3LT6227-*R**	30 (13.6)
6000	3	380-480	34 (864)	37 (940)	S1M3LF6434-*R**	S1M3LS6434-*R**	S1M3LT6434-*R**	37 (16.8)
6000	6	200-250	17 (432)	37 (940)	S1M6LF6217-*R**	S1M6LS6217-*R**	S1M6LT6217-*R**	40 (18.1)
6000	6	380-480	21 (533)	37 (940)	S1M6LF6421-*R**	S1M6LS6421-*R**	S1M6LT6421-*R**	49 (22.2)
9000	6	200-250	22 (559)	37 (940)	S1M6LF9222-*R**	S1M6LS9222-*R**	S1M6LT9222-*R**	49 (22.2)
9000	6	380-480	27 (686)	37 (940)	S1M6LF9427-*R**	S1M6LS9427-*R**	S1M6LT9427-*R**	62(28.1)
9000	9	200-250	17 (432)	37 (940)	S1M9LF9217-*R**	S1M9LS9217-*R**	S1M9LT9217-*R**	29 (13.2)
9000	9	380-480	34 (864)	37 (940)	S1M9LF9421-*R**	S1M9LS9421-*R**	S1M9LT9421-*R**	33 (15)
12000	6	200-250	27 (686)	37 (940)	S1M6LF12227-*R**	S1M6LS12227-*R**	S1M6LT12227-*R**	43 (19.5)
12000	6	380-480	34 (864)	37 (940)	S1M6LF12434-*R**	S1M6LS12434-*R**	S1M6LT12434-*R**	52 (23.6)
13500	9	200-250	22 (559)	37 (940)	S1M9LF13.5222-*R**	S1M9LS13.5222-*R**	S1M9LT13.5222-*R**	57 (25.6)
13500	9	380-480	27 (686)	37 (940)	S1M9LF13.5427-*R**	S1M9LS13.5427-*R**	S1M9LT13.5427-*R**	71 (32.2)
18000	9	200-250	27 (686)	37 (940)	S1M9LF18227-*R**	S1M9LS18227-*R**	S1M9LT18227-*R**	71 (32.2)
18000	9	380-480	34 (864)	37 (940)	S1M9LF18434-*R**	S1M9LS18434-*R**	S1M9LT18434-*R**	90 (40.8)



For complete information on the SmartOne Max Bottom Series Heater, click on the link or scan the QR code. <https://www.processtechnology.com/SmartOneMaxBottom.html>

Immersion Heaters

SmartOne Max Aquaculture Heaters

Immersion Heaters

Cannot ignite plastic tanks!



Aquaculture Heater Benefits

- Over-temperature protection is built-in on all SmartOne Max Aquaculture over the side and L shaped heaters.
- Compact, durable design to fit your process.
- 316 Stainless steel for freshwater and titanium for salt water tanks.



For complete information on the SmartOne Max EasyPlug over the side heater, click on the link or scan the QR code. <https://www.processtechnology.com/SmartOneMaxAquaOTS.html>



SMARTONE MAX EASYPLUG OVER THE SIDE HEATERS

WATTS	NUMBER OF TUBES	VOLTS	HOT ZONE IN/MM	OVERALL LENGTH IN/MM	316 STAINLESS MODEL NUMBER	TITANIUM MODEL NUMBER	SHIP WGT LBS/KG
500	1	100-250	7 (178)	12 (305)	S1MES.5112-1 S1MES.5212-1	S1MET.5112-1 S1MET.5212-1	7 (3.2)
1000	1	100-250	12 (305)	17 (432)	S1MES1117-1 S1MES1217-1	S1MET1117-1 S1MET1217-1	9 (4.1)
1500	1	100-250	17 (432)	22 (559)	S1MES1.5122-1 S1MES1.5222-1	S1MET1.5122-1 S1MET1.5222-1	10 (4.5)
1000	2	100-250	7 (178)	12 (305)	S1M2ES1112-1 S1M2ES1212-1	S1M2ET1112-1 S1M2ET1212-1	9 (4.1)
1500	3	100-250	7 (178)	12 (305)	S1M3ES1.5112-1 S1M3ES1.5212-1	S1M3ET1.5112-1 S1M3ET1.5212-1	13 (5.9)

SMARTONE MAX EASYPLUG BOTTOM HEATERS

WATTS	NUMBER OF TUBES	VOLTS	HORIZONTAL LENGTH IN/MM	316 STAINLESS MODEL NUMBER	TITANIUM MODEL NUMBER	SHIP WGT LBS/KG
500	1	100-250	12 (305)	S1MLES.5112-1 S1MLES.5212-1	S1MLET.5112-1 S1MLET.5212-1	7 (3.2)
1000	1	100-250	17 (432)	S1MLES1117-1 S1MLES1217-1	S1MLET1117-1 S1MLET1217-1	9 (4.1)
1000	2	100-250	12 (305)	S1M2LES1112-1 S1M2LES1212-1	S1M2LET1112-1 S1M2LET1212-1	10 (4.5)
1500	1	100-250	22 (559)	S1MLES1.5122-1 S1MLES1.5222-1	S1MLET1.5122-1 S1MLET1.5222-1	9 (4.1)
1500	3	100-250	12 (305)	S1M3LES1.5112-1 S1M3LES1.5212-1	S1M3LET1.5112-1 S1M3LET1.5212-1	13 (5.9)

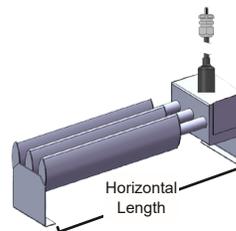


For complete information on the SmartOne Max EasyPlug bottom heater, click on the link or scan the QR code. <https://www.processtechnology.com/SmartOneMaxAquaBottom.html>



SMARTONE MAX AQUACULTURE OVER THE SIDE DIMENSIONS

S1M	S1M2	S1M3	VOLTAGE	OVERALL LENGTH MM/IN	HOT ZONE MM/IN
500	1000	1500	100-250	305 (12)	178 (7)
1000	-	-	100-250	432 (17)	305 (12)
1500	-	-	100-250	559 (22)	432 (17)



SMARTONE MAX AQUACULTURE BOTTOM DIMENSIONS

S1ML	S1ML2	S1ML3	VOLTAGE	HORIZONTAL LENGTH MM/IN
500	1000	1500	100-250	305 (12)
1000	-	-	100-250	432 (17)
1500	-	-	100-250	559 (22)

Immersion Heaters

Metal Heaters

Durable, efficient chemical heater. 35 w/in² (5.4 w/cm²), Derated 18 w/in²

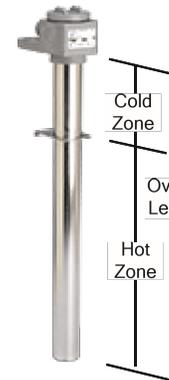
Metal Heater Benefits

- Variety of materials and watt densities available to fit your application.
- Wattages up to 54kW.
- Custom configurations available.

Immersion Heaters

P, F, S, and T SERIES, METAL HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)
		ln./(mm)	ln./(mm)					
1000	120	6	11	P1111-**-F1111-**-S1111-**-T1111-**-				8
	240	(152)	(279)	P1211-**-F1211-**-S1211-**-T1211-**-				(3.6)
2000	240	10	17	P2217-**-F2217-**-S2217-**-T2217-**-				10
	480	(254)	(432)	P2417-**-F2417-**-S2417-**-T2417-**-				(4.5)
3000	240	16	23	P3223-**-F3223-**-S3223-**-T3223-**-				12
	480	(406)	(584)	P3423-**-F3423-**-S3423-**-T3423-**-				(5.4)
4000	240	20	29	P4229-**-F4229-**-S4229-**-T4229-**-				13
	480	(508)	(737)	P4429-**-F4429-**-S4429-**-T4429-**-				(5.9)
5000	240	25	35	P5235-**-F5235-**-S5235-**-T5235-**-				16
	480	(635)	(889)	P5435-**-F5435-**-S5435-**-T5435-**-				(7.3)
6000	240	30	40	P6240-**-F6240-**-S6240-**-T6240-**-				18
	480	(762)	(1016)	P6440-**-F6440-**-S6440-**-T6440-**-				(8.2)
8000	240	37	47	P8247-**-F8247-**-S8247-**-T8247-**-				23
	480	(940)	(1194)	P8447-**-F8447-**-S8447-**-T8447-**-				(10.4)
9000	240	44	54	P9254-**-F9254-**-S9254-**-T9254-**-				24
	480	(1118)	(1372)	P9454-**-F9454-**-S9454-**-T9454-**-				(10.9)
10000	240	49	59	P10259-**-F10259-**-S10259-**-T10259-**-				25
	480	(1245)	(1499)	P10459-**-F10459-**-S10459-**-T10459-**-				(11.3)
12000	240	58	68	P12268-**-F12268-**-S12268-**-T12268-**-				29
	480	(1473)	(1727)	P12468-**-F12468-**-S12468-**-T12468-**-				(13.2)



For complete information on the MOTS Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/MOTS.html>

3P, 3F, 3S, and 3T SERIES, TRIPLE METAL HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)
		ln./(mm)	ln./(mm)					
3000	240	6	11	3P3211-**-3F3211-**-3S3211-**-3T3211-**-				21
	480	(152)	(279)	3P3411-**-3F3411-**-3S3411-**-3T3411-**-				(9.5)
6000	240	10	17	3P6217-**-3F6217-**-3S6217-**-3T6217-**-				30
	480	(254)	(432)	3P6417-**-3F6417-**-3S6417-**-3T6417-**-				(13.6)
9000	240	16	23	3P9223-**-3F9223-**-3S9223-**-3T9223-**-				33
	480	(406)	(584)	3P9423-**-3F9423-**-3S9423-**-3T9423-**-				(15)
12000	240	20	29	3P12229-**-3F12229-**-3S12229-**-3T12229-**-				39
	480	(508)	(737)	3P12429-**-3F12429-**-3S12429-**-3T12429-**-				(17.7)
15000	240	25	35	3P15235-**-3F15235-**-3S15235-**-3T15235-**-				45
	480	(635)	(889)	3P15435-**-3F15435-**-3S15435-**-3T15435-**-				(20.4)
18000	240	30	40	3P18240-**-3F18240-**-3S18240-**-3T18240-**-				51
	480	(762)	(1016)	3P18440-**-3F18440-**-3S18440-**-3T18440-**-				(23.1)
24000	240	37	47	3P24247-**-3F24247-**-3S24247-**-3T24247-**-				63
	480	(940)	(1194)	3P24447-**-3F24447-**-3S24447-**-3T24447-**-				(28.6)
27000	240	44	54	3P27254-**-3F27254-**-3S27254-**-3T27254-**-				69
	480	(1118)	(1372)	3P27454-**-3F27454-**-3S27454-**-3T27454-**-				(31.3)
30000	240	49	59	3P30259-**-3F30259-**-3S30259-**-3T30259-**-				75
	480	(1245)	(1499)	3P30459-**-3F30459-**-3S30459-**-3T30459-**-				(34)
36000	240	58	68	3P36268-**-3F36268-**-3S36268-**-3T36268-**-				84
	480	(1473)	(1727)	3P36468-**-3F36468-**-3S36468-**-3T36468-**-				(38.1)



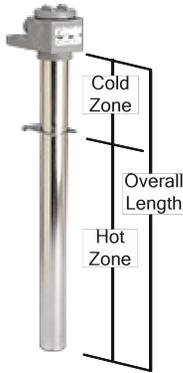
For complete information on the Triple Tube Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/3MOTS.html>

Immersion Heaters

Metal Heaters

Durable, efficient chemical heater. 35 w/in² (5.4 w/cm²), Derated 18 w/in²

Immersion Heaters



For complete information on the DMOTS Series, Derated Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/DMOTS.html>

D SERIES, DERATED METAL HEATERS

WATTS	VOLTS	HOT ZONE In./(mm)	OVERALL LENGTH In./(mm)	STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)
500	120	6	11	DP.5111-**. DF.5111-**. DS.5111-**. DT.5111-**. 7	DP.5111-**. DF.5111-**. DS.5111-**. DT.5111-**. (3.2)	DP.5111-**. DF.5111-**. DS.5111-**. DT.5111-**. 10	DP.5111-**. DF.5111-**. DS.5111-**. DT.5111-**. (4.5)	
	240	(152)	(279)	DP.5211-**. DF.5211-**. DS.5211-**. DT.5211-**. 11	DP.5211-**. DF.5211-**. DS.5211-**. DT.5211-**. (5)	DP.5211-**. DF.5211-**. DS.5211-**. DT.5211-**. 13	DP.5211-**. DF.5211-**. DS.5211-**. DT.5211-**. (5.9)	
1000	240	10	17	DP1217-**. DF1217-**. DS1217-**. DT1217-**. 15	DP1217-**. DF1217-**. DS1217-**. DT1217-**. (6.8)	DP1217-**. DF1217-**. DS1217-**. DT1217-**. 17	DP1217-**. DF1217-**. DS1217-**. DT1217-**. (7.7)	
	480	(254)	(432)	DP1417-**. DF1417-**. DS1417-**. DT1417-**. 23	DP1417-**. DF1417-**. DS1417-**. DT1417-**. (10.4)	DP1417-**. DF1417-**. DS1417-**. DT1417-**. 25	DP1417-**. DF1417-**. DS1417-**. DT1417-**. (11.3)	
1500	240	16	23	DP1.5223-**. DF1.5223-**. DS1.5223-**. DT1.5223-**. 15	DP1.5223-**. DF1.5223-**. DS1.5223-**. DT1.5223-**. (6.8)	DP1.5223-**. DF1.5223-**. DS1.5223-**. DT1.5223-**. 17	DP1.5223-**. DF1.5223-**. DS1.5223-**. DT1.5223-**. (7.7)	
	480	(406)	(584)	DP2.5235-**. DF2.5235-**. DS2.5235-**. DT2.5235-**. 23	DP2.5235-**. DF2.5235-**. DS2.5235-**. DT2.5235-**. (10.9)	DP2.5235-**. DF2.5235-**. DS2.5235-**. DT2.5235-**. 25	DP2.5235-**. DF2.5235-**. DS2.5235-**. DT2.5235-**. (11.3)	
2000	240	20	29	DP2229-**. DF2229-**. DS2229-**. DT2229-**. 15	DP2229-**. DF2229-**. DS2229-**. DT2229-**. (6.8)	DP2229-**. DF2229-**. DS2229-**. DT2229-**. 17	DP2229-**. DF2229-**. DS2229-**. DT2229-**. (7.7)	
	480	(508)	(737)	DP2429-**. DF2429-**. DS2429-**. DT2429-**. 23	DP2429-**. DF2429-**. DS2429-**. DT2429-**. (10.9)	DP2429-**. DF2429-**. DS2429-**. DT2429-**. 25	DP2429-**. DF2429-**. DS2429-**. DT2429-**. (11.3)	
2500	240	25	35	DP2.5235-**. DF2.5235-**. DS2.5235-**. DT2.5235-**. 15	DP2.5235-**. DF2.5235-**. DS2.5235-**. DT2.5235-**. (6.8)	DP2.5235-**. DF2.5235-**. DS2.5235-**. DT2.5235-**. 17	DP2.5235-**. DF2.5235-**. DS2.5235-**. DT2.5235-**. (7.7)	
	480	(635)	(889)	DP2.5435-**. DF2.5435-**. DS2.5435-**. DT2.5435-**. 23	DP2.5435-**. DF2.5435-**. DS2.5435-**. DT2.5435-**. (10.9)	DP2.5435-**. DF2.5435-**. DS2.5435-**. DT2.5435-**. 25	DP2.5435-**. DF2.5435-**. DS2.5435-**. DT2.5435-**. (11.3)	
3000	240	30	40	DP3240-**. DF3240-**. DS3240-**. DT3240-**. 17	DP3240-**. DF3240-**. DS3240-**. DT3240-**. (7.7)	DP3240-**. DF3240-**. DS3240-**. DT3240-**. 23	DP3240-**. DF3240-**. DS3240-**. DT3240-**. (10.4)	
	480	(762)	(1016)	DP3440-**. DF3440-**. DS3440-**. DT3440-**. 23	DP3440-**. DF3440-**. DS3440-**. DT3440-**. (10.9)	DP3440-**. DF3440-**. DS3440-**. DT3440-**. 25	DP3440-**. DF3440-**. DS3440-**. DT3440-**. (11.3)	
4000	240	37	47	DP4247-**. DF4247-**. DS4247-**. DT4247-**. 23	DP4247-**. DF4247-**. DS4247-**. DT4247-**. (10.9)	DP4247-**. DF4247-**. DS4247-**. DT4247-**. 25	DP4247-**. DF4247-**. DS4247-**. DT4247-**. (11.3)	
	480	(940)	(1194)	DP4447-**. DF4447-**. DS4447-**. DT4447-**. 25	DP4447-**. DF4447-**. DS4447-**. DT4447-**. (11.3)	DP4447-**. DF4447-**. DS4447-**. DT4447-**. 28	DP4447-**. DF4447-**. DS4447-**. DT4447-**. (12.7)	
4500	240	44	54	DP4.5254-**. DF4.5254-**. DS4.5254-**. DT4.5254-**. 24	DP4.5254-**. DF4.5254-**. DS4.5254-**. DT4.5254-**. (10.9)	DP4.5254-**. DF4.5254-**. DS4.5254-**. DT4.5254-**. 25	DP4.5254-**. DF4.5254-**. DS4.5254-**. DT4.5254-**. (11.3)	
	480	(1118)	(1372)	DP4.5454-**. DF4.5454-**. DS4.5454-**. DT4.5454-**. 25	DP4.5454-**. DF4.5454-**. DS4.5454-**. DT4.5454-**. (11.3)	DP4.5454-**. DF4.5454-**. DS4.5454-**. DT4.5454-**. 28	DP4.5454-**. DF4.5454-**. DS4.5454-**. DT4.5454-**. (12.7)	
5000	240	49	59	DP5259-**. DF5259-**. DS5259-**. DT5259-**. 25	DP5259-**. DF5259-**. DS5259-**. DT5259-**. (11.3)	DP5259-**. DF5259-**. DS5259-**. DT5259-**. 28	DP5259-**. DF5259-**. DS5259-**. DT5259-**. (12.7)	
	480	(1245)	(1499)	DP5459-**. DF5459-**. DS5459-**. DT5459-**. 28	DP5459-**. DF5459-**. DS5459-**. DT5459-**. (12.7)	DP5459-**. DF5459-**. DS5459-**. DT5459-**. 31	DP5459-**. DF5459-**. DS5459-**. DT5459-**. (13.6)	
6000	240	58	68	DP6268-**. DF6268-**. DS6268-**. DT6268-**. 28	DP6268-**. DF6268-**. DS6268-**. DT6268-**. (12.7)	DP6268-**. DF6268-**. DS6268-**. DT6268-**. 31	DP6268-**. DF6268-**. DS6268-**. DT6268-**. (13.6)	
	480	(1473)	(1727)	DP6468-**. DF6468-**. DS6468-**. DT6468-**. 31	DP6468-**. DF6468-**. DS6468-**. DT6468-**. (13.6)	DP6468-**. DF6468-**. DS6468-**. DT6468-**. 34	DP6468-**. DF6468-**. DS6468-**. DT6468-**. (14.5)	



For complete information on the D3MOTS Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/D3MOTS.html>

D3 SERIES, DERATED TRIPLE METAL HEATERS

WATTS	VOLTS	HOT ZONE In./(mm)	OVERALL LENGTH In./(mm)	STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)
1500	120	6	11	D3P1.5111-**. D3F1.5111-**. D3S1.5111-**. D3T1.5111-**. 21	D3P1.5111-**. D3F1.5111-**. D3S1.5111-**. D3T1.5111-**. (9.5)	D3P1.5111-**. D3F1.5111-**. D3S1.5111-**. D3T1.5111-**. 30	D3P1.5111-**. D3F1.5111-**. D3S1.5111-**. D3T1.5111-**. (13.6)	
	240	(152)	(279)	D3P1.5211-**. D3F1.5211-**. D3S1.5211-**. D3T1.5211-**. 33	D3P1.5211-**. D3F1.5211-**. D3S1.5211-**. D3T1.5211-**. (15)	D3P1.5211-**. D3F1.5211-**. D3S1.5211-**. D3T1.5211-**. 39	D3P1.5211-**. D3F1.5211-**. D3S1.5211-**. D3T1.5211-**. (17.7)	
3000	240	10	17	D3P3217-**. D3F3217-**. D3S3217-**. D3T3217-**. 30	D3P3217-**. D3F3217-**. D3S3217-**. D3T3217-**. (13.6)	D3P3217-**. D3F3217-**. D3S3217-**. D3T3217-**. 33	D3P3217-**. D3F3217-**. D3S3217-**. D3T3217-**. (15)	
	480	(254)	(432)	D3P3417-**. D3F3417-**. D3S3417-**. D3T3417-**. 39	D3P3417-**. D3F3417-**. D3S3417-**. D3T3417-**. (17.7)	D3P3417-**. D3F3417-**. D3S3417-**. D3T3417-**. 45	D3P3417-**. D3F3417-**. D3S3417-**. D3T3417-**. (20.4)	
4500	240	16	23	D3P4.5223-**. D3F4.5223-**. D3S4.5223-**. D3T4.5223-**. 33	D3P4.5223-**. D3F4.5223-**. D3S4.5223-**. D3T4.5223-**. (15)	D3P4.5223-**. D3F4.5223-**. D3S4.5223-**. D3T4.5223-**. 39	D3P4.5223-**. D3F4.5223-**. D3S4.5223-**. D3T4.5223-**. (17.7)	
	480	(406)	(584)	D3P4.5423-**. D3F4.5423-**. D3S4.5423-**. D3T4.5423-**. 39	D3P4.5423-**. D3F4.5423-**. D3S4.5423-**. D3T4.5423-**. (17.7)	D3P4.5423-**. D3F4.5423-**. D3S4.5423-**. D3T4.5423-**. 45	D3P4.5423-**. D3F4.5423-**. D3S4.5423-**. D3T4.5423-**. (20.4)	
6000	240	20	29	D3P6229-**. D3F6229-**. D3S6229-**. D3T6229-**. 39	D3P6229-**. D3F6229-**. D3S6229-**. D3T6229-**. (17.7)	D3P6229-**. D3F6229-**. D3S6229-**. D3T6229-**. 45	D3P6229-**. D3F6229-**. D3S6229-**. D3T6229-**. (20.4)	
	480	(508)	(737)	D3P6429-**. D3F6429-**. D3S6429-**. D3T6429-**. 45	D3P6429-**. D3F6429-**. D3S6429-**. D3T6429-**. (20.4)	D3P6429-**. D3F6429-**. D3S6429-**. D3T6429-**. 51	D3P6429-**. D3F6429-**. D3S6429-**. D3T6429-**. (23.1)	
7500	240	25	35	D3P7.5235-**. D3F7.5235-**. D3S7.5235-**. D3T7.5235-**. 45	D3P7.5235-**. D3F7.5235-**. D3S7.5235-**. D3T7.5235-**. (20.4)	D3P7.5235-**. D3F7.5235-**. D3S7.5235-**. D3T7.5235-**. 51	D3P7.5235-**. D3F7.5235-**. D3S7.5235-**. D3T7.5235-**. (23.1)	
	480	(635)	(889)	D3P7.5435-**. D3F7.5435-**. D3S7.5435-**. D3T7.5435-**. 51	D3P7.5435-**. D3F7.5435-**. D3S7.5435-**. D3T7.5435-**. (23.1)	D3P7.5435-**. D3F7.5435-**. D3S7.5435-**. D3T7.5435-**. 57	D3P7.5435-**. D3F7.5435-**. D3S7.5435-**. D3T7.5435-**. (25.8)	
9000	240	30	40	D3P9240-**. D3F9240-**. D3S9240-**. D3T9240-**. 51	D3P9240-**. D3F9240-**. D3S9240-**. D3T9240-**. (23.1)	D3P9240-**. D3F9240-**. D3S9240-**. D3T9240-**. 57	D3P9240-**. D3F9240-**. D3S9240-**. D3T9240-**. (25.8)	
	480	(762)	(1016)	D3P9440-**. D3F9440-**. D3S9440-**. D3T9440-**. 57	D3P9440-**. D3F9440-**. D3S9440-**. D3T9440-**. (25.8)	D3P9440-**. D3F9440-**. D3S9440-**. D3T9440-**. 63	D3P9440-**. D3F9440-**. D3S9440-**. D3T9440-**. (28.6)	
12000	240	37	47	D3P12247-**. D3F12247-**. D3S12247-**. D3T12247-**. 63	D3P12247-**. D3F12247-**. D3S12247-**. D3T12247-**. (28.6)	D3P12247-**. D3F12247-**. D3S12247-**. D3T12247-**. 69	D3P12247-**. D3F12247-**. D3S12247-**. D3T12247-**. (31.3)	
	480	(940)	(1194)	D3P12447-**. D3F12447-**. D3S12447-**. D3T12447-**. 69	D3P12447-**. D3F12447-**. D3S12447-**. D3T12447-**. (31.3)	D3P12447-**. D3F12447-**. D3S12447-**. D3T12447-**. 75	D3P12447-**. D3F12447-**. D3S12447-**. D3T12447-**. (34)	
13500	240	44	54	D3P13.5254-**. D3F13.5254-**. D3S13.5254-**. D3T13.5254-**. 69	D3P13.5254-**. D3F13.5254-**. D3S13.5254-**. D3T13.5254-**. (31.3)	D3P13.5254-**. D3F13.5254-**. D3S13.5254-**. D3T13.5254-**. 75	D3P13.5254-**. D3F13.5254-**. D3S13.5254-**. D3T13.5254-**. (34)	
	480	(1118)	(1372)	D3P13.5454-**. D3F13.5454-**. D3S13.5454-**. D3T13.5454-**. 75	D3P13.5454-**. D3F13.5454-**. D3S13.5454-**. D3T13.5454-**. (34)	D3P13.5454-**. D3F13.5454-**. D3S13.5454-**. D3T13.5454-**. 81	D3P13.5454-**. D3F13.5454-**. D3S13.5454-**. D3T13.5454-**. (36.7)	
15000	240	49	59	D3P15259-**. D3F15259-**. D3S15259-**. D3T15259-**. 75	D3P15259-**. D3F15259-**. D3S15259-**. D3T15259-**. (34)	D3P15259-**. D3F15259-**. D3S15259-**. D3T15259-**. 81	D3P15259-**. D3F15259-**. D3S15259-**. D3T15259-**. (36.7)	
	480	(1245)	(1499)	D3P15459-**. D3F15459-**. D3S15459-**. D3T15459-**. 81	D3P15459-**. D3F15459-**. D3S15459-**. D3T15459-**. (36.7)	D3P15459-**. D3F15459-**. D3S15459-**. D3T15459-**. 87	D3P15459-**. D3F15459-**. D3S15459-**. D3T15459-**. (39.4)	
18000	240	58	68	D3P18268-**. D3F18268-**. D3S18268-**. D3T18268-**. 84	D3P18268-**. D3F18268-**. D3S18268-**. D3T18268-**. (38.1)	D3P18268-**. D3F18268-**. D3S18268-**. D3T18268-**. 90	D3P18268-**. D3F18268-**. D3S18268-**. D3T18268-**. (40.8)	
	480	(1473)	(1727)	D3P18468-**. D3F18468-**. D3S18468-**. D3T18468-**. 90	D3P18468-**. D3F18468-**. D3S18468-**. D3T18468-**. (40.8)	D3P18468-**. D3F18468-**. D3S18468-**. D3T18468-**. 96	D3P18468-**. D3F18468-**. D3S18468-**. D3T18468-**. (43.5)	

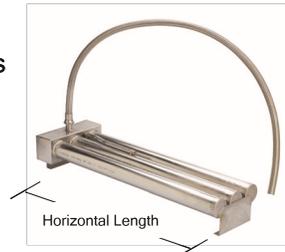
Immersion Heaters

Metal Heaters

Durable, efficient chemical heater. 35 w/in² (5.4 w/cm²), Derated 18 w/in²

Flex Riser for Metal L Heaters

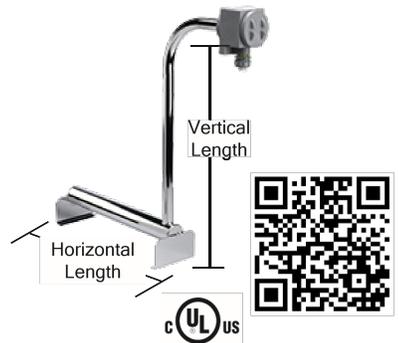
Non-conductive fluoropolymer (PTFE) riser with stainless reinforced construction affords versatile installation in various tank depths and enhances delivery time as well. With less bulk and less weight, most heaters can be shipped by a parcel carrier thereby reducing shipping costs. Suitable for process temperatures up to 300°F only. Available with P2 overtemperature protection only. P2 safety components necessary for thermal overtemperature monitoring. (Consult factory)



Immersion Heaters

L SERIES, METAL L-SHAPED HEATERS

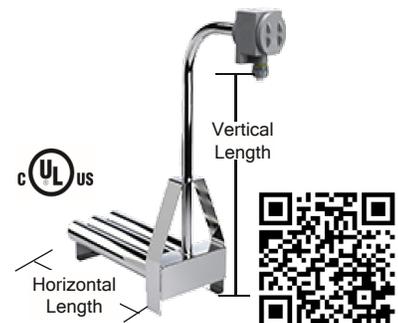
WATTS	VOLTS	HORIZ. In./(mm)	STD. VERT.* In./(mm)	STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)
1000	120	13	15	LP1113-R**	LF1113-R**	LS1113-R**	LT1113-R**	10
	240	(330)	(381)	LP1213-R**	LF1213-R**	LS1213-R**	LT1213-R**	(4.5)
2000	120	17	19	LP2117-R**	LF2117-R**	LS2117-R**	LT2117-R**	11
	240	(432)	(483)	LP2217-R**	LF2217-R**	LS2217-R**	LT2217-R**	(5)
	480			LP2417-R**	LF2417-R**	LS2417-R**	LT2417-R**	
3000	240	22	25	LP3222-R**	LF3222-R**	LS3222-R**	LT3222-R**	12
	480	(559)	(635)	LP3422-R**	LF3422-R**	LS3422-R**	LT3422-R**	(5.4)
4000	240	26	25	LP4226-R**	LF4226-R**	LS4226-R**	LT4226-R**	13
	480	(660)	(635)	LP4426-R**	LF4426-R**	LS4426-R**	LT4426-R**	(5.9)
5000	240	31	37	LP5231-R**	LF5231-R**	LS5231-R**	LT5231-R**	14
	480	(787)	(940)	LP5431-R**	LF5431-R**	LS5431-R**	LT5431-R**	(6.4)
6000	240	36	50	LP6236-R**	LF6236-R**	LS6236-R**	LT6236-R**	15
	480	(914)	(1270)	LP6436-R**	LF6436-R**	LS6436-R**	LT6436-R**	(6.8)
8000	240	44	50	LP8244-R**	LF8244-R**	LS8244-R**	LT8244-R**	18
	480	(1118)	(1270)	LP8444-R**	LF8444-R**	LS8444-R**	LT8444-R**	(8.2)
9000	240	50	50	LP9250-R**	LF9250-R**	LS9250-R**	LT9250-R**	20
	480	(1270)	(1270)	LP9450-R**	LF9450-R**	LS9450-R**	LT9450-R**	(9.1)
10000	240	55	50	LP10255-R**	LF10255-R**	LS10255-R**	LT10255-R**	22
	480	(1397)	(1270)	LP10455-R**	LF10455-R**	LS10455-R**	LT10455-R**	(10)
12000	240	64	50	LP12264-R**	LF12264-R**	LS12264-R**	LT12264-R**	25
	480	(1626)	(1270)	LP12464-R**	LF12464-R**	LS12464-R**	LT12464-R**	(11.3)



For complete information on the LMOTS Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/LMOTS.html>

3L SERIES, TRIPLE METAL L-SHAPED HEATERS

WATTS	VOLTS	HORIZ. In./(mm)	STD. VERT.* In./(mm)	STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./(kg)
3000	240	13	15	3LP3213-R**	3LF3213-R**	3LS3213-R**	3LT3213-R**	30
	480	(330)	(381)	3LP3413-R**	3LF3413-R**	3LS3413-R**	3LT3413-R**	(13.6)
6000	240	17	37	3LP6217-R**	3LF6217-R**	3LS6217-R**	3LT6217-R**	33
	480	(432)	(940)	3LP6417-R**	3LF6417-R**	3LS6417-R**	3LT6417-R**	(15)
9000	240	22	37	3LP9222-R**	3LF9222-R**	3LS9222-R**	3LT9222-R**	36
	480	(559)	(940)	3LP9422-R**	3LF9422-R**	3LS9422-R**	3LT9422-R**	(16.3)
12000	240	26	37	3LP12226-R**	3LF12226-R**	3LS12226-R**	3LT12226-R**	39
	480	(660)	(940)	3LP12426-R**	3LF12426-R**	3LS12426-R**	3LT12426-R**	(17.7)
15000	240	31	37	3LP15231-R**	3LF15231-R**	3LS15231-R**	3LT15231-R**	42
	480	(787)	(940)	3LP15431-R**	3LF15431-R**	3LS15431-R**	3LT15431-R**	(19.1)
18000	240	36	50	3LP18236-R**	3LF18236-R**	3LS18236-R**	3LT18236-R**	45
	480	(914)	(1270)	3LP18436-R**	3LF18436-R**	3LS18436-R**	3LT18436-R**	(20.4)
24000	240	44	50	3LP24244-R**	3LF24244-R**	3LS24244-R**	3LT24244-R**	54
	480	(1118)	(1270)	3LP24444-R**	3LF24444-R**	3LS24444-R**	3LT24444-R**	(24.5)
27000	240	50	50	3LP27450-R**	3LF27450-R**	3LS27450-R**	3LT27450-R**	60
	480	(1270)	(1270)					(27.2)
30000	240	55	50	3LP30455-R**	3LF30455-R**	3LS30455-R**	3LT30455-R**	66
	480	(1397)	(1270)					(29.9)
36000	240	64	50	3LP36464-R**	3LF36464-R**	3LS36464-R**	3LT36464-R**	75
	480	(1626)	(1270)					(34)



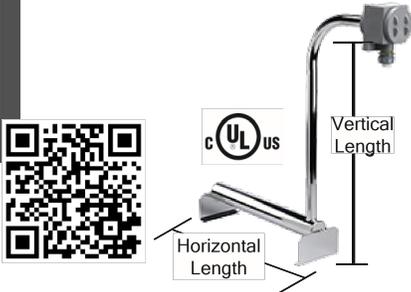
For complete information on the 3LMOTS Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/3LMOTS.html>

Immersion Heaters

Metal Heaters

Durable, efficient chemical heater. 35 w/in² (5.4 w/cm²), Derated 18 w/in²

Immersion Heaters



For complete information on the DLMOTS Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/DLMOTS.html>

DL SERIES, DERATED METAL L-SHAPED HEATERS

WATTS	VOLTS	STD.		STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./kg)
		HORIZ. In./(mm)	VERT.* In./(mm)					
500	120	13	15	DLP.5113-R**	DLF.5113-R**	DLS.5113-R**	DLT.5113-R**	10
	240	(330)	(381)	DLP.5213-R**	DLF.5213-R**	DLS.5213-R**	DLT.5213-R**	(4.5)
1000	120	17	19	DLP1117-R**	DLF1117-R**	DLS1117-R**	DLT1117-R**	11
	240	(432)	(483)	DLP1217-R**	DLF1217-R**	DLS1217-R**	DLT1217-R**	(5)
1500	120	22	25	DLP1.5122-R**	DLF1.5122-R**	DLS1.5122-R**	DLT1.5122-R**	12
	240	(559)	(635)	DLP1.5222-R**	DLF1.5222-R**	DLS1.5222-R**	DLT1.5222-R**	(5.4)
	480			DLP1.5422-R**	DLF1.5422-R**	DLS1.5422-R**	DLT1.5422-R**	
2000	240	26	25	DLP2226-R**	DLF2226-R**	DLS2226-R**	DLT2226-R**	13
	480	(660)	(635)	DLP2426-R**	DLF2426-R**	DLS2426-R**	DLT2426-R**	(5.9)
	480			DLP2.5231-R**	DLF2.5231-R**	DLS2.5231-R**	DLT2.5231-R**	
2500	240	31	37	DLP2.5431-R**	DLF2.5431-R**	DLS2.5431-R**	DLT2.5431-R**	14
	480	(787)	(940)	DLP2.5431-R**	DLF2.5431-R**	DLS2.5431-R**	DLT2.5431-R**	(6.4)
3000	240	36	50	DLP3236-R**	DLF3236-R**	DLS3236-R**	DLT3236-R**	15
	480	(914)	(1270)	DLP3436-R**	DLF3436-R**	DLS3436-R**	DLT3436-R**	(6.8)
4000	240	44	50	DLP4244-R**	DLF4244-R**	DLS4244-R**	DLT4244-R**	18
	480	(1118)	(1270)	DLP4444-R**	DLF4444-R**	DLS4444-R**	DLT4444-R**	(8.2)
4500	240	50	50	DLP4.5250-R**	DLF4.5250-R**	DLS4.5250-R**	DLT4.5250-R**	20
	480	(1270)	(1270)	DLP4.5450-R**	DLF4.5450-R**	DLS4.5450-R**	DLT4.5450-R**	(9.1)
5000	240	55	50	DLP5255-R**	DLF5255-R**	DLS5255-R**	DLT5255-R**	22
	480	(1397)	(1270)	DLP5455-R**	DLF5455-R**	DLS5455-R**	DLT5455-R**	(10)
6000	240	64	50	DLP6264-R**	DLF6264-R**	DLS6264-R**	DLT6264-R**	25
	480	(1626)	(1270)	DLP6464-R**	DLF6464-R**	DLS6464-R**	DLT6464-R**	(11.3)

D3L SERIES, DERATED TRIPLE METAL L-SHAPED HEATERS

WATTS	VOLTS	STD.		STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./kg)
		HORIZ. In./(mm)	VERT.* In./(mm)					
1500	120	13	15	D3LP1.5113-R**	D3LF1.5113-R**	D3LS1.5113-R**	D3LT1.5113-R**	30
	240	(330)	(381)	D3LP1.5213-R**	D3LF1.5213-R**	D3LS1.5213-R**	D3LT1.5213-R**	(13.6)
3000	240	17	37	D3LP3217-R**	D3LF3217-R**	D3LS3217-R**	D3LT3217-R**	33
	480	(432)	(940)	D3LP3417-R**	D3LF3417-R**	D3LS3417-R**	D3LT3417-R**	(15)
4500	240	22	37	D3LP4.5222-R**	D3LF4.5222-R**	D3LS4.5222-R**	D3LT4.5222-R**	36
	480	(559)	(940)	D3LP4.5422-R**	D3LF4.5422-R**	D3LS4.5422-R**	D3LT4.5422-R**	(16.3)
6000	240	26	37	D3LP6226-R**	D3LF6226-R**	D3LS6226-R**	D3LT6226-R**	39
	480	(660)	(940)	D3LP6426-R**	D3LF6426-R**	D3LS6426-R**	D3LT6426-R**	(17.7)
7500	240	31	37	D3LP7.5231-R**	D3LF7.5231-R**	D3LS7.5231-R**	D3LT7.5231-R**	42
	480	(787)	(940)	D3LP7.5431-R**	D3LF7.5431-R**	D3LS7.5431-R**	D3LT7.5431-R**	(19.1)
9000	240	36	50	D3LP9236-R**	D3LF9236-R**	D3LS9236-R**	D3LT9236-R**	45
	480	(914)	(1270)	D3LP9436-R**	D3LF9436-R**	D3LS9436-R**	D3LT9436-R**	(20.4)
12000	240	44	50	D3LP12244-R**	D3LF12244-R**	D3LS12244-R**	D3LT12244-R**	54
	480	(1118)	(1270)	D3LP12444-R**	D3LF12444-R**	D3LS12444-R**	D3LT12444-R**	(24.5)
13500	240	50	50	D3LP13.5250-R**	D3LF13.5250-R**	D3LS13.5250-R**	D3LT13.5250-R**	60
	480	(1270)	(1270)	D3LP13.5450-R**	D3LF13.5450-R**	D3LS13.5450-R**	D3LT13.5450-R**	(27.2)
15000	240	55	50	D3LP15255-R**	D3LF15255-R**	D3LS15255-R**	D3LT15255-R**	66
	480	(1397)	(1270)	D3LP15455-R**	D3LF15455-R**	D3LS15455-R**	D3LT15455-R**	(29.9)
18000	240	64	50	D3LP18264-R**	D3LF18264-R**	D3LS18264-R**	D3LT18264-R**	75
	480	(1626)	(1270)	D3LP18464-R**	D3LF18464-R**	D3LS18464-R**	D3LT18464-R**	(34)



For complete information on the D3LMOTS Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/D3LMOTS.html>

Immersion Heaters

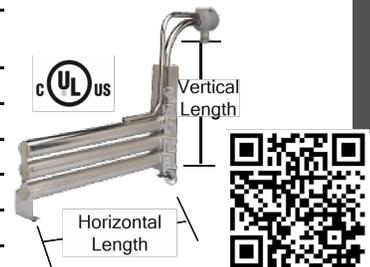
Metal Heaters

Durable, efficient chemical heater. 35 w/in² (5.4 w/cm²), Derated 18 w/in²

Immersion Heaters

3LV SERIES, VERTICAL STACK TRIPLE METAL L-SHAPED HEATERS

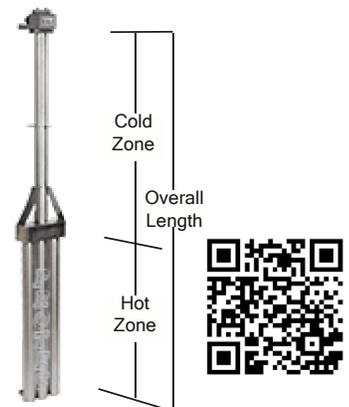
WATTS	VOLTS	STD. VERT.*		STEEL	304 SS	316 SS	TITANIUM	SHIP WGT. Lbs./kg)
		HORIZ. In./(mm)	VERT. In./(mm)					
3000	240	13	15	3LVP3213-R**	3LVF3213-R**	3LVS3213-R**	3LVT3213-R**	30
	480	(330)	(381)	3LVP3413-R**	3LVF3413-R**	3LVS3413-R**	3LVT3413-R**	(13.6)
6000	240	17	37	3LVP6217-R**	3LVF6217-R**	3LVS6217-R**	3LVT6217-R**	33
	480	(432)	(940)	3LVP6417-R**	3LVF6417-R**	3LVS6417-R**	3LVT6417-R**	(15)
9000	240	22	37	3LVP9222-R**	3LVF9222-R**	3LVS9222-R**	3LVT9222-R**	36
	480	(559)	(940)	3LVP9422-R**	3LVF9422-R**	3LVS9422-R**	3LVT9422-R**	(16.3)
12000	240	26	37	3LVP12226-R**	3LVF12226-R**	3LVS12226-R**	3LVT12226-R**	39
	480	(660)	(940)	3LVP12426-R**	3LVF12426-R**	3LVS12426-R**	3LVT12426-R**	(17.7)
15000	240	31	37	3LVP15231-R**	3LVF15231-R**	3LVS15231-R**	3LVT15231-R**	42
	480	(787)	(940)	3LVP15431-R**	3LVF15431-R**	3LVS15431-R**	3LVT15431-R**	(19.1)
18000	240	36	50	3LVP18236-R**	3LVF18236-R**	3LVS18236-R**	3LVT18236-R**	45
	480	(914)	(1270)	3LVP18436-R**	3LVF18436-R**	3LVS18436-R**	3LVT18436-R**	(20.4)
24000	240	44	50	3LVP24244-R**	3LVF24244-R**	3LVS24244-R**	3LVT24244-R**	54
	480	(1118)	(1270)	3LVP24444-R**	3LVF24444-R**	3LVS24444-R**	3LVT24444-R**	(24.5)
27000	480	50	50	3LVP27450-R**	3LVF27450-R**	3LVS27450-R**	3LVT27450-R**	60
		(1270)	(1270)					(27.2)
30000	480	55	50	3LVP30455-R**	3LVF30455-R**	3LVS30455-R**	3LVT30455-R**	66
		(1397)	(1270)					(29.9)
36000	480	64	50	3LVP36464-R**	3LVF36464-R**	3LVS36464-R**	3LVT36464-R**	75
		(1626)	(1270)					(34)



For complete information on the 3LVMOTS Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/3LVMOTS.html>

3V SERIES, TRIPLE METAL DEEP TANK HEATERS

WATTS	VOLTS	THREE TUBE LENGTH		STEEL	304 SS	316 SS	TITANIUM
		In./(mm)	In./(mm)				
18000	240	36		3VP18236-R**	3VF18236-R**	3VS18236-R**	3VT18236-R**
	480	(914)		3VP18436-R**	3VF18436-R**	3VS18436-R**	3VT18436-R**
24000	240	44		3VP24244-R**	3VF24244-R**	3VS24244-R**	3VT24244-R**
	480	(1118)		3VP24444-R**	3VF24444-R**	3VS24444-R**	3VT24444-R**
27000	480	50		3VP27450-R**	3VF27450-R**	3VS27450-R**	3VT27450-R**
		(1270)					
30000	480	55		3VP30455-R**	3VF30455-R**	3VS30455-R**	3VT30455-R**
		(1397)					
36000	480	64		3VP36464-R**	3VF36464-R**	3VS36464-R**	3VT36464-R**
		(1626)					
45000	480	77		3VP45477-R**	3VF45477-R**	3VS45477-R**	3VT45477-R**
		(1956)					
48000	480	82		3VP48482-R**	3VF48482-R**	3VS48482-R**	3VT48482-R**
		(2083)					
54000	480	91		3VP54491-R**	3VF54491-R**	3VS54491-R**	3VT54491-R**
		(2311)					



For complete information on the 3V Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/3V.html>

Immersion Heaters

Metal Heaters

Powerful, high watt density, 316 stainless heaters, up to 40 w/in² (6.2 w/cm²)

Immersion Heaters



For complete information on the 3HS Series, Tubular Heater, click on the link or scan the QR code. <https://www.processtechnology.com/3HS.html>

3HS SERIES, THREE ELEMENT STAINLESS STEEL HEATERS

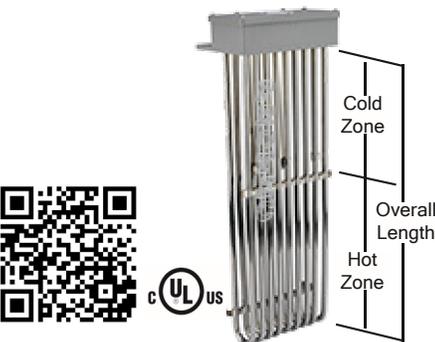
WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	MODEL NUMBER	SHIP WGT. Lbs./kg)
		In./(mm)	In./(mm)		
3000	240	11	17	3HS3217-**	9
	480	(279)	(432)	3HS3417-**	(4.1)
4500	240	17	23	3HS4.5223-**	10
	480	(432)	(584)	3HS4.5423-**	(4.5)
7500	240	21	29	3HS7.5229-**	12
	480	(533)	(737)	3HS7.5429-**	(5.4)
10500	240	26	34	3HS10.5234-**	14
	480	(660)	(864)	3HS10.5434-**	(6.4)



For complete information on the 6HS Series, Tubular Heater, click on the link or scan the QR code. <https://www.processtechnology.com/6HS.html>

6HS SERIES, SIX ELEMENT STAINLESS STEEL HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	MODEL NUMBER	SHIP WGT. Lbs./kg)
		In./(mm)	In./(mm)		
6000	240	10	17	6HS6217-**	12
	480	(254)	(432)	6HS6417-**	(5.4)
9000	240	16	23	6HS9223-**	13
	480	(406)	(584)	6HS9423-**	(5.9)
15000	240	20	29	6HS15229-**	16
	480	(508)	(737)	6HS15429-**	(7.3)
21000	240	25	34	6HS21234-**	18
	480	(635)	(864)	6HS21434-**	(8.2)



For complete information on the 9HS Series, Tubular Heater, click on the link or scan the QR code. <https://www.processtechnology.com/9HS.html>

9HS SERIES, NINE ELEMENT STAINLESS STEEL HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	MODEL NUMBER	SHIP WGT. Lbs./kg)
		In./(mm)	In./(mm)		
9000	240	10	17	9HS9217-**	16
	480	(254)	(432)	9HS9417-**	(7.3)
13500	240	16	23	9HS13.5223-**	19
	480	(406)	(584)	9HS13.5423-**	(8.6)
22500	240	20	29	9HS22.5229-**	23
	480	(508)	(737)	9HS22.5429-**	(10.4)
31500	240*	25	34	9HS31.5234-M-**	25
	480	(635)	(864)	9HS31.5434-**	(11.3)

Immersion Heaters

Metal Heaters

Varipower Lab Heaters and Small Tank Heaters

Plug-In Heater/Control Option

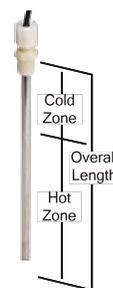
Plug-in heater/control option available on 120 VAC quartz, fluoropolymer (PTFE) and metal heaters up to 1500 watts in combination with one of our thermostats outfitted with a receptacle, 6' cord and plug.



Immersion Heaters

V SERIES, VARIPOWER HEATERS

WATTS	VOLTS	HOT ZONE	LENGTH	NO. OF ELEMENTS (see drawing)	316 SS	TITANIUM	FLUOROPOLYMER (PFA)	SHIP WGT. Lbs./ (kg)
		In./ (mm)	In./ (mm)					
100	120	4	7	1	VS.1107	VT.1107	VX.1107	2
	240	(102)	(178)	1	VS.1207	VT.1207	VX.1207	(.9)
300	120	6	11	2	VS.3111	VT.3111	VX.3111	2
	240	(152)	(279)	2	VS.3211	VT.3211	VX.3211	(.9)
500	120	6	11	3	VS.5111	VT.5111	VX.5111	2
	240	(152)	(279)	3	VS.5211	VT.5211	VX.5211	(.9)
1000	120	6	11	6	VS1111	VT1111	VX1111	2
	240	(152)	(279)	6	VS1211	VT1211	VX1211	(.9)



For complete information on the Varipower Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/Varipower.html>

B SERIES, 1¼" SMALL TANK METAL HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	304 SS	316 SS	TITANIUM	SHIP WGT.
		In./ (mm)	In./ (mm)				Lbs./ (kg)
500	120	5	10	FB.5110-**	SB.5110-**	TB.5110-**	5
	240	(127)	(254)	FB.5210-**	SB.5210-**	TB.5210-**	(2.3)
1000	120	8	14	FB1114-**	SB1114-**	TB1114-**	6
	240	(203)	(356)	FB1214-**	SB1214-**	TB1214-**	(2.7)
1500	120	11	17	FB1.5117-**	SB1.5117-**	TB1.5117-**	8
	240	(279)	(432)	FB1.5217-**	SB1.5217-**	TB1.5217-**	(3.6)



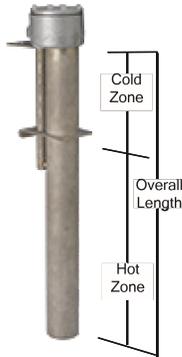
For complete information on the Small Tank Series, Metal Heater, click on the link or scan the QR code. <https://www.processtechnology.com/Smalltank.html>

Immersion Heaters

Metal Heaters

Specialty Phosphate Heaters

Immersion Heaters

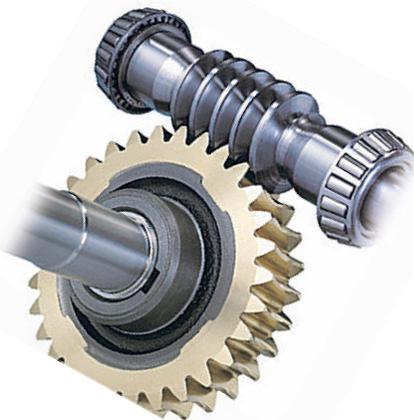


For complete information on the DAS Series, Phosphate Heater, click on the link or scan the QR code. <https://www.processtechnology.com/DAS.html>

DAS SERIES, PHOSPHATE HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL LENGTH	MODEL NUMBER	SHIP WGT. Lbs./kg.
		In./(mm.)	In./(mm.)		
1000	120	7	11	DAS1111-P4	17
	240	(180)	(280)	DAS1211-P4	(8)
2000	240	12	17	DAS2217-P4	20
	480	(305)	(430)	DAS2417-P4	(9)
3000	240	18	23	DAS3223-P4	24
	480	(460)	(585)	DAS3423-P4	(11)
3500	240	21	29	DAS3.5229-P4	30
	480	(535)	(735)	DAS3.5429-P4	(14)
4000	240	28	35	DAS4235-P4	36
	480	(710)	(890)	DAS4435-P4	(16)
5000	240	33	41	DAS5241-P4	42
	480	(840)	(1040)	DAS5441-P4	(19)
6000	240	39	47	DAS6247-P4	48
	480	(990)	(1195)	DAS6447-P4	(22)
8000	240	49	59	DAS8259-P4	58
	480	(1245)	(1500)	DAS8459-P4	(27)
10000	240	62	71	DAS10271-P4	64
	480	(1575)	(1805)	DAS10471-P4	(30)

Why Phosphate Heaters?



Phosphate coating processes provide some of the more difficult challenges in heating. Phosphate coatings are used extensively on lubricated metal parts to provide a thick, porous layer and a grain structure for oil to reside to improve lubricity for gears and threads while protecting against corrosion.

During the phosphate process, a coating builds up on heated surfaces such as electric immersion heaters, restricting heat transfer, causing corrosion and shortening heater life. For this reason, Process Technology developed a purpose-built heater for phosphate chemistries: the DAS-series immersion heater. The DAS-series heaters are designed to last longer in heavy buildup and surface corrosion that normally occurs in these baths. A heavy-wall outer sheath and unique internal construction protects the heater core resulting in a longer life and better performance in harsh phosphate applications.

Immersion Heaters

Screwplug Heaters

2T, 2" Screwplug Heaters and 2" Tubular Screwplug Heaters

Immersion Heaters

2T SERIES, 2" (STAINLESS STEEL) SCREW PLUG HEATERS

WATTS	VOLTS	OVERALL	PIPE	NO. OF	MODEL	SHIP
		LENGTH				
		In./mm)				Lbs./kg)
2000	240	8	2	2	2T2208	5
	480	(203)			2T2408	(2.3)
3000	240	12	2	2	2T3212	6
	480	(305)			2T3412	(2.7)
4000	240	18	2	2	2T4218	7
	480	(457)			2T4418	(3.2)
6000	240	25	2	2	2T6225	8
	480	(635)			2T6425	(3.6)
8000	240	32	2	2	2T8232	10
	480	(813)			2T8432	(4.5)
10000	240	40	2	2	2T10240	11
	480	(1016)			2T10440	(5)
12000	480	48	2	2	2T12448	13
		(1219)				(5.9)
15000	480	54	2	2	2T15454	15
		(1372)				(6.8)



Overall Length



For complete information on the 2T Series, Screwplug Heater, click on the link or scan the QR code. <https://www.processtechnology.com/2T.html>

T2T SERIES, 2" (TITANIUM) SCREW PLUG HEATERS

WATTS	VOLTS	OVERALL	PIPE	NO. OF	MODEL	SHIP
		LENGTH				
		In./mm)				Lbs./kg)
2000	240	8	2	2	T2T2208	5
	480	(203)			T2T2408	(2.3)
4000	240	18	2	2	T2T4218	7
	480	(457)			T2T4418	(3.2)
6000	240	25	2	2	T2T6225	8
	480	(635)			T2T6425	(3.6)
8000	240	32	2	2	T2T8232	10
	480	(813)			T2T8432	(4.5)
12000	480	48	2	2	T2T12448	13
		(1219)				(5.5)



Overall Length



For complete information on the T2T Series, Screwplug Heater, click on the link or scan the QR code. <https://www.processtechnology.com/2T.html>

T SERIES, 2" TUBULAR SCREW PLUG HEATERS

WATTS	VOLTS	OVERALL LENGTH	PIPE THREAD	NO. OF ELEMENTS			SHIP WGT.
				304 SS	316 SS	TITANIUM	
		In./mm)				Lbs./kg)	
1000	120	10	2	FT1110	ST1110	TT1110	11
	240	(255)		FT1210	ST1210	TT1210	(5)
2000	120	14	2	FT2114	ST2114	TT2114	14
	240	(355)		FT2214	ST2214	TT2214	(6.5)
	480			FT2414	ST2414	TT2414	
3000	240	19	2	FT3219	ST3219	TT3219	16
	480	(485)		FT3419	ST3419	TT3419	(7.5)
4000	240	23	2	FT4223	ST4223	TT4223	20
	480	(585)		FT4423	ST4423	TT4423	(9)
6000	240	33	2	FT6233	ST6233	TT6233	26
	480	(840)		FT6433	ST6433	TT6433	(12)
8000	240	40	2	FT8240	ST8240	TT8240	29
	480	(1015)		FT8440	ST8440	TT8440	(13.5)
9000	240	47	2	FT9247	ST9247	TT9247	32
	480	(1195)		FT9447	ST9447	TT9447	(14.5)
12000	240	61	2	FT12261	ST12261	TT12261	37
	480	(1550)		FT12461	ST12461	TT12461	(17)



Cold Zone

Overall Length

Hot Zone



For complete information on the Tubular Series, Screwplug Heater, click on the link or scan the QR code. <https://www.processtechnology.com/T.html>

Immersion Heaters

Screwplug Heaters

5T, 2" Screwplug Heaters and HXT Fluoropolymer Screwplug Heaters

Immersion Heaters



For complete information on the 5T Series, Screwplug Heater, click on the link or scan the QR code. <https://www.processtechnology.com/5T.html>

5T SERIES, 2-1/2" (STAINLESS) SCREW PLUG HEATERS

WATTS	VOLTS	OVERALL LENGTH In./(mm)	PIPE THREAD	NO. OF ELEMENTS	MODEL NUMBER	SHIP WGT. Lbs./(kg)
4500	240	12	2-1/2	3	5T4.5212	7
	480	(305)			5T4.5412	(3.5)
6000	240	18	2-1/2	3	5T6218	8
	480	(458)			5T6418	(4)
9000	240	25	2-1/2	3	5T9225	9
	480	(635)			5T9425	(4.5)
12000	240	32	2-1/2	3	5T12232	10
	480	(813)			5T12432	(4.5)
15000	240	40	2-1/2	3	5T15240	12
	480	(1016)			5T15440	(5.5)
18000	240	48	2-1/2	3	5T18248	15
	480	(1220)			5T18448	(7)



For complete information on the T5T Series, Screwplug Heater, click on the link or scan the QR code. <https://www.processtechnology.com/5T.html>

T5T SERIES, 2-1/2" (TITANIUM) SCREW PLUG HEATERS

WATTS	VOLTS	OVERALL LENGTH In./(mm)	PIPE THREAD	NO. OF ELEMENTS	MODEL NUMBER	SHIP WGT. Lbs./(kg)
6000	240	18	2-1/2	3	T5T6218	6
	480	(460)			T5T6418	(3)
9000	240	25	2-1/2	3	T5T9225	7
	480	(635)			T5T9425	(3.5)
12000	240	32	2-1/2	3	T5T12232	8
	480	(815)			T5T12432	(4)
18000	240	48	2-1/2	3	T5T18248	13
	480	(1220)			T5T18448	(6)



For complete information on the HXT Series, Fluoropolymer Screwplug Heater, click on the link or scan the QR code. <https://www.processtechnology.com/HXT.html>

HXT SERIES, FLUOROPOLYMER (PTFE) SCREW PLUG HEATERS

WATTS	VOLTS	OVERALL LENGTH In./(mm)	PIPE THREAD	MODEL NUMBER	SHIP WGT. Lbs./(kg)
1000	120	9	2-1/2	HXT1109	9
	240	(230)		HXT1209	(4)
2000	120	14	2-1/2	HXT2114	12
	240	(355)		HXT2214	(5.5)
	480			HXT2414	
3000	240	19	2-1/2	HXT3219	15
	480	(485)		HXT3419	(7)
4000	240	26	2-1/2	HXT4226	17
	480	(660)		HXT4426	(8)
5000	240	30	2-1/2	HXT5230	20
	480	(760)		HXT5430	(9)
6000	240	34	2-1/2	HXT6234	23
	480	(865)		HXT6434	(10.5)

Immersion Heaters

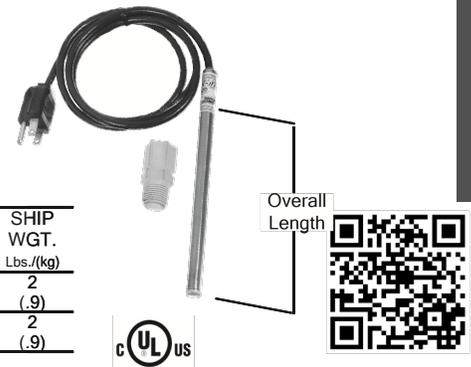
Screwplug Heaters

Varipower 1/2" Screwplug Heaters, Small Tank 1 1/4" Screwplug Heaters

Immersion Heaters

V*T SERIES, VARIPOWER HEATERS

WATTS	VOLTS	NPT	LENGTH	NO. OF ELEMENTS (see drawing)	316	TITANIUM	FLUOROPOLYMER	SHIP WGT. Lbs./(kg)
		In./(mm)	In./(mm)		SS		(PFA)	
100	120	.5	7	1	VST.1107	VTT.1107	VXT.1107	2
	240	(.23)	(178)	1	VST.1207	VTT.1207	VXT.1207	(.9)
200	120	.5	11	1	VST.2110	VTT.2110	VXT.2110	2
	240	(.23)	(279)	1	VST.2210	VTT.2210	VXT.2210	(.9)



For complete information on the Varipower Series, Screwplug Heater, click on the link or scan the QR code. <https://www.processtechnology.com/Varipower.html>

TB SERIES, 1-1/4" SMALL TANK SCREW PLUG HEATERS

WATTS	VOLTS	OVERALL LENGTH	NPT	304	316	TITANIUM	SHIP WGT. Lbs./(kg)
		In./(mm)		SS	SS		
500	120	8	1-1/4"	FTB.5108	STB.5108	TTB.5108	8
	240	(203)		FTB.5208	STB.5208	TTB.5208	(3.6)
1000	120	10	1-1/4"	FTB1110	STB1110	TTB1110	10
	240	(254)		FTB1210	STB1210	TTB1210	(4.5)
1500	120	14	1-1/4"	FTB1.5114	STB1.5114	TTB1.5114	14
	240	(356)		FTB1.5214	STB1.5214	TTB1.5214	(6.4)
2000	120	17	1-1/4"	FTB2117	STB2117	TTB2117	17
	240	(432)		FTB2217	STB2217	TTB2217	(7.7)



For complete information on the TB Series, Small Tank Screwplug Heater, click on the link or scan the QR code. <https://www.processtechnology.com/Smalltank.html>

Immersion Heaters

Flanged Heaters

Fluoropolymer Flanged Heaters

Immersion Heaters



FLX SERIES, 3" 150 LB. STYLE SINGLE ELEMENT FLUOROPOLYMER (PTFE) FLANGED HEATERS

WATTS	VOLTS	NO. OF ELEMENTS	OVERALL LENGTH In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./(kg)
1000	120	1	11	3FLX1111-**	20
	240		(279)	3FLX1211-**	(9.1)
2000	240	1	16	3FLX2216-**	23
	480		(406)	3FLX2416-**	(10.4)
3000	240	1	21	3FLX3221-**	26
	480		(533)	3FLX3421-**	(11.8)
4000	240	1	28	3FLX4228-**	29
	480		(711)	3FLX4428-**	(13.2)
5000	240	1	32	3FLX5232-**	32
	480		(813)	3FLX5432-**	(14.5)
6000	240	1	35	3FLX6235-**	35
	480		(889)	3FLX6435-**	(15.9)

For complete information on the FLX Series, Flanged Heater, click on the link or scan the QR code. <https://www.processtechnology.com/FLX.html>

FLX SERIES, 6" 150 LB. STYLE THREE ELEMENT FLUOROPOLYMER (PTFE) FLANGED HEATERS

WATTS	VOLTS	NO. OF ELEMENTS	OVERALL LENGTH In./(mm)	MODEL NUMBER	SHIP WGT. Lbs./(kg)
3000	240	3	11	6FLX3211-**	42
	480		(279)	6FLX3411-**	(19.1)
6000	240	3	16	6FLX6216-**	51
	480		(406)	6FLX6416-**	(23.1)
9000	240	3	21	6FLX9221-**	60
	480		(533)	6FLX9421-**	(27.2)
12000	240	3	28	6FLX12228-**	66
	480		(711)	6FLX12428-**	(29.9)
15000	240	3	32	6FLX15232-**	75
	480		(813)	6FLX15432-**	(34)
18000	240	3	35	6FLX18235-**	84
	480		(889)	6FLX18435-**	(38.1)

Immersion Heaters

Flanged Heaters

316 Stainless Steel Flanged Heaters

3" 150 LBS. SS FLANGE 3 STAINLESS STEEL ELEMENTS

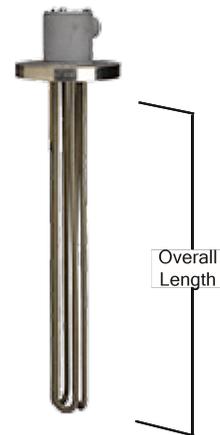
WATTS	VOLTS	OVERALL	MODEL	SHIP
		LENGTH In./(mm)	NUMBER	WGT. Lbs./(kg)
3000	240	9	3FLS3209-**	14
	480	(229)	3FLS3409-**	(6.4)
4500	240	13	3FLS4.5213-**	15
	480	(330)	3FLS4.5413-**	(6.8)
6000	240	19	3FLS6219-**	16
	480	(483)	3FLS6419-**	(7.3)
9000	240	26	3FLS9226-**	17
	480	(660)	3FLS9426-**	(7.7)
12000	240	33	3FLS12233-**	18
	480	(838)	3FLS12433-**	(8.2)
15000	240	41	3FLS15241-**	20
	480	(1041)	3FLS15441-**	(9.1)
18000	240	49	3FLS18249-**	21
	480	(1245)	3FLS18449-**	(9.5)

5" 150 LBS. SS FLANGE 6 STAINLESS STEEL ELEMENTS

WATTS	VOLTS	OVERALL	MODEL	SHIP
		LENGTH In./(mm)	NUMBER	WGT. Lbs./(kg)
6000	240	9	5FLS6209-**	25
	480	(229)	5FLS6409-**	(11.3)
9000	240	13	5FLS9213-**	28
	480	(330)	5FLS9413-**	(12.7)
12000	240	19	5FLS12219-**	30
	480	(483)	5FLS12419-**	(13.6)
18000	240	26	5FLS18226-**	33
	480	(660)	5FLS18426-**	(15)
24000	240	33	5FLS24233-**	37
	480	(838)	5FLS24433-**	(16.8)
30000	240	41	5FLS30241-**	40
	480	(1041)	5FLS30441-**	(18.1)
36000	240	49	5FLS36249-**	43
	480	(1245)	5FLS36449-**	(19.5)

6" 150 LBS. SS FLANGE 12 STAINLESS STEEL ELEMENTS

WATTS	VOLTS	OVERALL	MODEL	SHIP
		LENGTH In./(mm)	NUMBER	WGT. Lbs./(kg)
12000	240	9	6FLS12209-**	48
	480	(229)	6FLS12409-**	(21.8)
18000	240	13	6FLS18213-**	54
	480	(330)	6FLS18413-**	(24.5)
24000	240	19	6FLS24219-**	60
	480	(483)	6FLS24419-**	(27.2)
36000	240	26	6FLS36226-**	67
	480	(660)	6FLS36426-**	(30.4)
48000	240	33	6FLS48233-**	76
	480	(838)	6FLS48433-**	(34.5)
60000	240	41	6FLS60241-**	84
	480	(1041)	6FLS60441-**	(38.1)
72000	240	49	6FLS72249-**	111
	480	(1245)	6FLS72449-**	(50.3)



For complete information on the FLS Series, Flanged Heater, click on the link or scan the QR code. <https://www.processtechnology.com/FLS.html>

Immersion Heaters

Aquaculture Heaters

EasyPlug Aquaculture Heaters

Aquaculture Heater Benefits

- Over-temperature protection is provided on all Aquaculture over the side and L shaped heaters.
- Compact, durable design to fit your process.
- 316 Stainless steel for freshwater and titanium for salt water tanks.



RESISTIVE STYLE *EASYPLUG*™ OVER-THE-SIDE HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL	316 STAINLESS	TITANIUM	SHIP WGT. Lbs./(kg)
		Length In./(mm)	Length In./(mm)	MODEL NUMBER (FOR FRESH WATER)	MODEL NUMBER (FOR SALT WATER)	
1000	120	7	11	ESA1111-P1	ETA1111-P1	6
	240	(178)	(279)	ESA1211-P1	ETA1211-P1	(2.7)
1800	240	12	17	ESA1.8217-P1	ETA1.8217-P1	9
		(305)	(432)			(4.1)

RESISTIVE STYLE *EASYPLUG*™ BOTTOM HEATERS

WATTS	VOLTS	HORIZONTAL	STANDARD	316 STAINLESS	TITANIUM	SHIP WGT. Lbs./(kg)
		LENGTH In./(mm)	VERTICAL In./(mm)	MODEL NUMBER (FOR FRESH WATER)	MODEL NUMBER (FOR SALT WATER)	
1000	120	11	24	ELSA1111-R24S-P1	ELTA1111-R24S-P1	8
	240	(279)	(610)	ELSA1211-R24S-P1	ELTA1211-R24S-P1	(3.6)
1800	240	16	24	ELSA1.8216-R24S-P1	ELTA1.8216-R24S-P1	11
		(406)	(610)			(5)



For complete information on the EasyPlug Series, Aquaculture Heater, click on the link or scan the QR code. <https://www.processtechnology.com/EA.html>

Immersion Heaters

Aquaculture Heaters

Aquaculture Heaters



AQUACULTURE RESISTIVE SINGLE TUBE OVER THE SIDE HEATERS

WATTS	VOLTS	HOT ZONE	OVERALL	316 STAINLESS	TITANIUM	SHIP
		Ln./(mm)	LENGTH Ln./(mm)	MODEL NUMBER (FOR FRESH WATER)	MODEL NUMBER (FOR SALT WATER)	
1000	120	7	11	SA1111-P1	TA1111-P1	5
	240	(178)	(279)	SA1211-P1	TA1211-P1	(2.3)
1800	120	12	17	SA1.8117-P1*	TA1.8117-P1*	8
	240	(305)	(432)	SA1.8217-P1*	TA1.8217-P1*	(3.6)
2500	240	17	23	SA2.5223-P1*	TA2.5223-P1*	10
		(432)	(584)			(4.5)
3500	240	23	29	SA3.5229-P1*	TA3.5229-P1*	13
		(584)	(737)			(5.9)
5000	240	32	39	SA5239-P1*	TA5239-P1*	16
		(813)	(991)			(7.3)
6000	240	40	47	SA6247-P1*	TA6247-P1*	19
		(1016)	(1194)			(8.6)



AQUACULTURE RESISTIVE SINGLE TUBE BOTTOM HEATERS

WATTS	VOLTS	HORIZONTAL	STANDARD	316 STAINLESS	TITANIUM	SHIP
		LENGTH Ln./(mm)	VERTICAL Ln./(mm)	MODEL NUMBER (FOR FRESH WATER)	MODEL NUMBER (FOR SALT WATER)	
1000	120	11	24	LSA1111-R24S-P1	LTA1111-R24S-P1	7
	240	(279)	(610)	LSA1211-R24S-P1	LTA1211-R24S-P1	(3.2)
1800	120	16	24	LSA1.8116-R24S-P1*	LTA1.8116-R24S-P1*	10
	240	(406)	(610)	LSA1.8216-R24S-P1*	LTA1.8216-R24S-P1*	(4.5)
2500	240	21	24	LSA2.5221-R24S-P1*	LTA2.5221-R24S-P1*	12
		(533)	(610)			(5.4)
3500	240	27	24	LSA3.5227-R24S-P1*	LTA3.5227-R24S-P1*	15
		(686)	(610)			(6.8)
5000	240	36	48	LSA5236-R48S-P1*	LTA5236-R48S-P1*	18
		(914)	(1219)			(8.2)
6000	240	44	48	LSA6244-R48S-P1*	LTA6244-R48S-P1*	21
		(1118)	(1219)			(9.5)



For complete information on the Resistive Series, Aquaculture Heater, click on the link or scan the QR code. <https://www.processtechnology.com/ASeries.html>

AQUACULTURE RESISTIVE 1-1/4" NPT SCREW PLUG HEATERS

WATTS	VOLTS	OVERALL	316 STAINLESS	TITANIUM	SHIP
		LENGTH Ln./(mm)	MODEL NUMBER (FOR FRESH WATER)	MODEL NUMBER (FOR SALT WATER)	
1000	120	10	STA1110	TTA1110	6
	240	(254)	STA1210	TTA1210	(2.7)
1800	120	15	STA1.8115*	TTA1.8115*	8
	240	(381)	STA1.8215*	TTA1.8215*	(3.6)
2500	240	20	STA2.5220*	TTA2.5220*	11
		(508)			(5)
3500	240	26	STA3.5226*	TTA3.5226*	13
		(660)			(5.9)
5000	240	35	STA5235*	TTA5235*	15
		(889)			(6.8)
6000	240	43	STA6243*	TTA6243*	18
		(1092)			(8.2)

