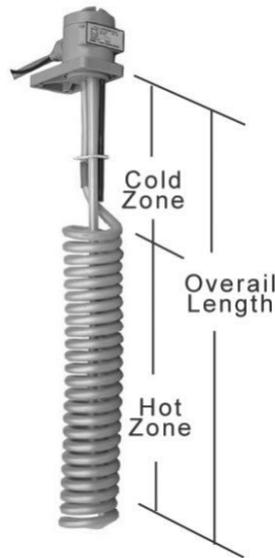


TEFLON Electric heater

Single-tube spiral Teflon (PTFE) Heaters

10瓦/平方寸(1.5w/cm²)



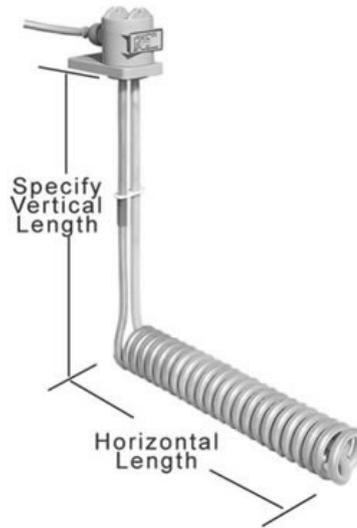
Single-tube spiral Teflon (PTFE) Heaters						
WATTS	WOLTS (See pg 1)	HOT ZONE IN/(mm)	OVERALL LENGTH In/(mm)	MAX COLD ZONE In/(mm)	MODEL NUMBER	SHIP WGT Lbs/(kg)
500	120	5	11	41	HX5111*-**	6
	240	(125)	(280)	(1041)	HX5200*-**	(2.5)
1000	120	7	11	41	HX1111*-**	7
	240	(180)	(280)	(1041)	HX1211*-**	(3.5)
2000	120	12	17	40	HX2117*-**	8
	240	(305)	(430)	(1015)	HX2217*-**	(4)
	480				HX2417*-**	
3000	240	169	23	40	HX3223*-**	13
	480	(405)	(585)	(1015)	HX3423*-**	(6)
4000	240	20	29	40	HX4229*-**	15
	480	(405)	(585)	(1015)	HX4429*-**	(7)
5000	240	25	35	36	HX5235*-**	18
	480	(635)	(890)	(915)	HX5435*-**	(8)
6000	240	79	40	30	HX6240*-**	21
	480	(735)	(1015)	(760)	HX6440*-**	(10)

8000	240	37	47	32	HX8247*-**	25
	480	(940)	(1195)	(810)	HX8447*-**	(12)
9000	240	44	54	35	HX9254*-**	28
	480	(1120)	(1375)	(890)	HX9454*-**	(13)
Only single-phase is available, if require can be lengthen vertical length or use flexible riser.						

Product Features

1. High-quality stainless steel (SUS316 or SUS304) tube heater core, Heavy wall fluoropolymer (PTFE) covered stainless steel element, strong Corrosion and applicable to all types of corrosive fluid heating.
2. Low watt density design (10 watts/square inch, 1.5w/cm²) for long service life.
3. Electric heater installation location should pay attention to prevent deposition on its surface or solution too tight, solution lower than hot zone cause radiating bad and dry out the Teflon tube (PEFE).
4. Does not change small the heater volume size and big the surface area, or make the heater surface power to large and influence the service life.
5. All electric heater can allocate overheat protection or PT temperature probe, ensure the service life and safety.
6. Teflon (PTFE) tube strong corrosion-resistant, so widely used in oxidation of three polishing, chemical gold plating Chemical silver plating, electroless nickel plating and varieties of high demand solution heating.
7. Flat, spiral and L-shaped,U-shaped,W-shaped,coil, portfolio configurations available to meet your application.
8. All our Teflon heater are through the EU market of mandatory CE Certification.

L-one-tube spiral Teflon (PTFE) heater



L-one-tube spiral Teflon (PTFE) heater						
WATTS	WOLTS (See pg 1)	HOT ZONE IN/(mm)	OVERALL LENGTH In/(mm)	MAX COLD ZONE In/(mm)	MODEL NUMBER	SHIP WGT Lbs/(kg)
500	120	6	12	41	HXL5106-R*-**	6
	240	(155)	(305)	(1040)	HXL5106-R*-**	(2.5)
1000	120	8	12	41	HXL1108-R*-**	7
	240	(205)	(305)	(1040)	HXL1208-R*-**	(3.5)
2000	120	12	17	40	HXL2112-R*-**	8
	240	(305)	(460)	(1015)	HXL2212-R*-**	(4.0)
	480				HXL2412-R*-**	
3000	240	17	18	40	HXL3217-R*-**	13
	480	(430)	(460)	(1015)	HXL3417-R*-**	(6.0)
4000	240	20	18	40	HXL4220-R*-**	15
	480	(510)	(460)	(1015)	HXL4420-R*-**	(7.0)
5000	240	24	18	36	HXL5224-R*-**	18
	480	(610)	(460)	(916)	HXL5424-R*-**	(8.0)
6000	240	29	18	30	HXL6229-R*-**	21
	480	(735)	(460)	(760)	HXL6429-R*-**	(10.0)
8000	240	37	18	32	HXL8237-R*-**	26
	480	(940)	(460)	(810)	HXL8437-R*-**	(12.0)
9000	240	44	18	35	HXL9244-R*-**	29
	480	(1120)	(460)	(890)	HXL9444-R*-**	(13.0)

Please marked the length (inch) behind the “R”, such as:HKL2212-R24-PTL.Only single-phase is available, if require can be lengthen vertical length or use flexible riser.

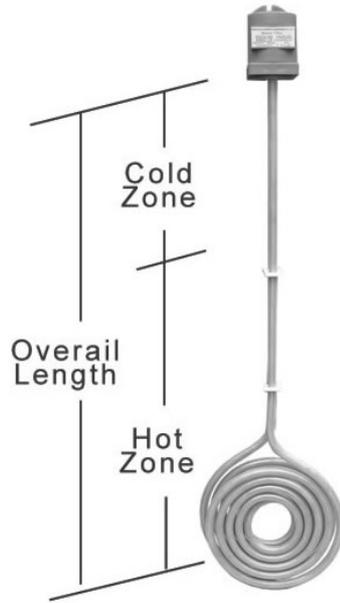
Product Features

1. Adopt titanium, zirconium, SUS304 and SUS316 stainless steel to make, divide into vertical and heated at the bottom of "L", "Z" shape.
2. According to the installation location, the chemical liquid's nature, solid matter deposit characteristics in liquid to design the surface power of heat tube and decide the Tube diameter. Diameter general specifications: $\phi 11\text{mm}$, $\phi 17\text{mm}$, $\phi 25\text{mm}$, $\phi 30\text{mm}$, $\phi 32\text{mm}$, $\phi 45\text{mm}$, $\phi 50\text{mm}$.
3. $\phi 11\text{mm}$, $\phi 17\text{mm}$ tubes are shrinking tube heater, liquid heating, heat pipe surface power $5.6\text{W}/\text{Cm}^2$, apply to the mobility, and less solid Body deposition, Liquid does not precipitate in the heating surface of the liquid crystal heating after cooling.
4. $\phi 45\text{mm}$ diameter series products adopt low surface power design.
5. Have 120V single-phase voltage, 220V, 380V, 220V three-phase, 380V three-phase, power from 0.5KW to 140KW.
6. All heaters can be ancillary use with over-temperature protection switches and temperature probe.
7. All heaters are adopt international inspection standards and ensure the electrical safety

Installation and use

1. The electric heater general through along the length (or width) direction, and well-distributed on one side (or both sides), that for not to collide during the operation. Installation near the slot-wall, also it can be place between the plate and groove wall
2. Electric heater can be fixed edge slot, slot-wall fixed, hanging rods and other highly installation, use wiring boards and support installation pieces with drilling then bolt tightening.
3. All electric heater wire splice should pay attention to the balance of the three-phase, do not mistake ground the 220v or 380v, and must grounded through the GFCI safety.
4. Two electric heaters should maintain few spaces when installed, if each other two close make damaged easily.
5. Ensure the hot zone (red marked below) must be immersed in the solution, or leading electric damaged by dry out. During the production process should be timely add the liquid and keep the calibration surface.
6. During the heating, do not take the heater from the liquid, but after put off the power a few minutes later, remove heater after entire cooling.
7. When use for high concentration solution heating, clean the heater with water after remove it from the tank, avoid the solution sediment be crystallization, agglomeration under low temperature on the heater.

PTFE flat-heater



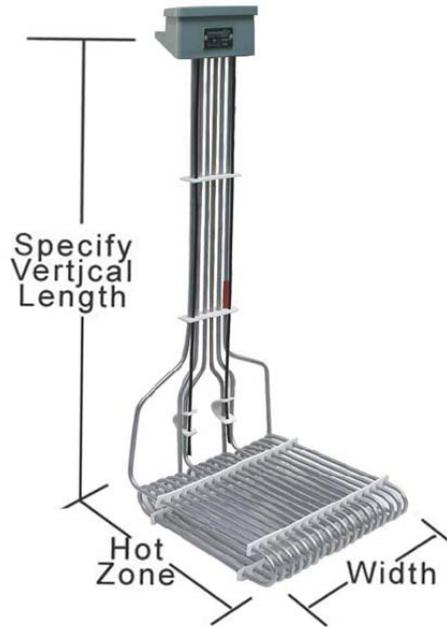
Teflon PTFE flat-heater							
WATTS	WOLTS (See pg 1)	HOT ZONE IN/(mm)	OVERALL LENGTH In/(mm)	DIA In/(mm)	MAX COLD ZONE In/(mm)	MODEL NUMBER	SHIP WGT Lbs/(kg)
500	120	6	14	5	36	HXF. 5111-14-**	6
	240	(155)	(355)	(125)	(915)	HXF. 5205-14-**	(2.5)
1000	120	7	14	6	36	HXF1106-14-**	7
	240	(180)	(355)	(155)	(915)	HXF1206-14-**	(3.5)
2000	120	9	17	8	35	HXF2108-17-**	8
	240	(230)	(430)	(205)	(890)	HXF2208-17-**	(4)
	480					HXF2408-17-**	
3000	240	10	23	9	35	HXF3209-23-**	13
	480	(225)	(585)	(230)	(890)	HXF3409-23-**	(6)
4000	240	12	29	11	35	HXF4211-29-**	15
	480	(305)	(735)	(280)	(890)	HXF4411-29-**	(7)
5000	240	13	35	12	31	HXF5212-35-**	18
	480	(330)	(390)	(305)	(790)	HXF5412-35-**	(8)
6000	240	14	40	13	25	HXF6213-40-**	22
	480	(355)	(1015)	(330)	(635)	HXF6413-40-**	(10)
8000	240	16	40	15	28	HXF8215-40-**	25
	480	(405)	(1015)	(380)	(710)	HXF8415-40-**	(12)
9000	240	17	40	16	30	HXF9216-40-**	28
	480	(430)	(1015)	(405)	(760)	HXF9416-40-**	(13)

Only single-phase is available, if require can be lengthen vertical length or use flexible riser, this heater is double-strength, save space (the thickness is only "1", if covered shield is 1-1/2)

Product Features

1. High-quality stainless steel (SUS316 or SUS304) tube heater core, Heavy wall fluoropolymer (PTFE) covered stainless steel element, strong Corrosion and applicable to all types of corrosive fluid heating.
2. Low watt density design (10 watts/square inch, 1.5w/cm²) for long service life.
3. Electric heater installation location should pay attention to prevent deposition on its surface or solution too tight, solution lower than hot zone cause radiating bad and dry out the Teflon tube (PEFE).
4. Does not change small the heater volume size and big the surface area, or make the heater surface power too large and influence the service life.
5. All electric heater can allocate overheat protection or PT temperature probe, ensure the service life and safety.
6. Teflon (PTFE) tube strong corrosion-resistant, so widely used in oxidation of three polishing, chemical gold plating Chemical silver plating, electroless nickel plating and varieties of high demand solution heating.
7. Flat, spiral and L-shaped,U-shaped,W-shaped,coil, portfolio configurations available to meet your application.
8. All our Teflon heater are through the EU market of mandatory CE Certification.

PTFE Teflon three-heater



PTFE Teflon three-heater							
WATTS	WOLTS (See pg 1)	WIDTH IN / (mm)	HOT ZONE IN/(mm)	STD.VERT LENGTH In/(mm)	MAX COLD ZONE In/(mm)	MODEL NUMBER	SHIP WGT Lbs/(kg)
1500	120	10	6	18	36	3HXO1.5110-06-11-*	15
	240	(255)	(155)	(460)	(915)	3HXO1.5204-06-11-*	(7)
3000	240	10	6	18	36	3HXO3210-06-11-**	20
	480	(255)	(155)	(460)	(915)	3HXO3410-06-11-**	(10)
6000	240	12	10	18	35	3HXO6212-10.5-17-*	22
	480	(305)	(225)	(460)	(890)	3HXO6412-10.5-17-*	(10)
9000	240	12	12	18	35	3HXO9212-16-23-**	36
	480	(305)	(305)	(460)	(890)	3HXO9412-16-23-**	(17)
12000	240	12	19	18	35	3HXO12212-20.5-29-**	42
	480	(305)	(485)	(460)	(890)	3HXO12212-20.5-29-**	(20)
15000	240	12	20	18	31	3HXO15212-25-35-**	48
	480	(305)	(510)	(460)	(790)	3HXO15412-25-35-**	(22)
18000	240	12	22	18	25	3HXO18212-29-40-**	54

	480	(305)	(560)	(460)	(635)	3HXO18412-29-40-**	(25)
24000	240	14	36	18	28	3HXO24214-36-47-**	58
	480	(355)	(915)	(460)	(710)	3HXO24414-36-47-**	(27)
27000	240	14	40	18	30	3HXO27214-40-54-**	64
	480	(355)	(1015)	(460)	(760)	3HXO27414-40-54-**	(29)
Three-phase power is standard deploy, if want the single-phase please add “-1” before the over-temperature model. If required can be lengthen vertical length or use flexible riser. Please contact our Guangzhou Baoda electrothermal titanium product Co., Ltd.							

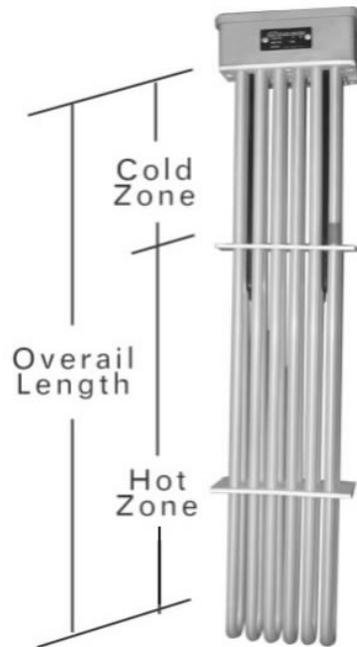
Product Features

1. Adopt titanium, zirconium, SUS304 and SUS316 stainless steel to make, divide into vertical and heated at the bottom of "L", "Z" shape.
2. According to the installation location, the chemical liquid's nature, solid matter deposit characteristics in liquid to design the surface power of heat tube and decide the Tube diameter. Diameter general specifications:
 $\phi 11\text{mm}, \phi 17\text{mm}, \phi 25\text{mm}, \phi 30\text{mm}, \phi 32\text{mm}, \phi 45\text{mm}, \phi 50\text{mm}$.
3. $\phi 11\text{mm}, \phi 17\text{mm}$ tubes are shrinking tube heater, liquid heating, heat pipe surface power $5.6\text{W}/\text{cm}^2$, apply to the mobility, and less solid Body deposition, Liquid does not precipitate in the heating surface of the liquid crystal heating after cooling.
4. $\phi 45\text{mm}$ diameter series products adopt low surface power design.
5. Have 120V single-phase voltage, 220V, 380V, 220V three-phase, 380V three-phase, power from 0.5KW to 140KW.
6. All heaters can be ancillary use with over-temperature protection switches and temperature probe.
7. All heaters are adopt international inspection standards and ensure the electrical safety

Installation and use

1. The electric heater general through along the length (or width) direction, and well-distributed on one side (or both sides), that for not to collide during the operation. Installation near the slot-wall, also it can be placed between the plate and groove wall
2. Electric heater can be fixed edge slot, slot-wall fixed, hanging rods and other highly installation, use wiring boards and support installation pieces with drilling then bolt tightening.
3. All electric heater wire splice should pay attention to the balance of the three-phase, do not mistake grounded the 220v or 380v, and must grounded through the GFCI safety.
4. Two electric heaters should maintain few spaces when installed, if each other two close make damaged easily.
5. Ensure the hot zone (red marked below) must be immersed in the solution, or leading electric damaged by dry out. During the production process should be timely add the liquid and keep the calibration surface.
6. During the heating, do not take the heater from the liquid, but after put off the power a few minutes later, remove heater after entire cooling.
7. When use for high concentration solution heating, clean the heater with water after remove it from the tank, avoid the solution sediment be crystallization, agglomeration under low temperature on the heater.

9 burn Teflon PTFE tube heater



9 burn Teflon PTFE tube heater					
WATTS	WOLTS (See pg 1)	HOT ZONE IN/ (mm)	OVERALL LENGTH In/ (mm)	MODEL NUMBER	SHIP WGT Lbs/ (kg)
3000	240	9	17	9HX3217- **	28
	480	(230)	(430)	9HX3417- **	(13)
4500	240	15	23	9HX4.5223- **	33
	480	(380)	(585)	9HX4.5423- **	(15)
6000	240	21	29	9HX6229- **	36
	480	(535)	(735)	9HX6429- **	(16.5)
9000	240	28	35	9HX9235- **	40
	480	(710)	(890)	9HX9435- **	(18)
12000	240	38	47	9HX12247- **	49
	480	(965)	(1195)	9HX12447- **	(22.5)
15000	240	47	59	9HX15259- **	60
	480	(1195)	(1500)	9HX15459- **	(27.5)
18000	240	55	68	9HX18268- **	67
	480	(1400)	(1725)	9HX18468- **	(30.5)

Three-phase power is standard deploy, if want the single-phase please add “-1” before the over-temperature model.

Product Features

1. Adopt titanium, zirconium, SUS304 and SUS316 stainless steel to make, divide into vertical and heated at the bottom of "L", "Z" shape.
2. According to the installation location, the chemical liquid's nature, solid matter deposit characteristics in liquid to design the surface power of heat tube and decide the Tube diameter. Diameter general specifications: $\phi 11\text{mm}$, $\phi 17\text{mm}$, $\phi 25\text{mm}$, $\phi 30\text{mm}$, $\phi 32\text{mm}$, $\phi 45\text{mm}$, $\phi 50\text{mm}$.
3. $\phi 11\text{mm}$, $\phi 17\text{mm}$ tubes are shrinking tube heater, liquid heating, heat pipe surface power $5.6\text{W}/\text{Cm}^2$, apply to the mobility, and less solid Body deposition, Liquid does not precipitate in the heating surface of the liquid crystal heating after cooling.
4. $\phi 45\text{mm}$ diameter series products adopt low surface power design.
5. Have 120V single-phase voltage, 220V, 380V, 220V three-phase, 380V three-phase, power from 0.5KW to 140KW.
6. All heaters can be ancillary use with over-temperature protection switches and temperature probe.
7. All heaters are adopt international inspection standards and ensure the electrical safety

Installation and use

1. The electric heater general through along the length (or width) direction, and well-distributed on one side (or both sides), that for not to collide during the operation. Installation near the slot-wall, also it can be placed between the plate and groove wall
2. Electric heater can be fixed edge slot, slot-wall fixed, hanging rods and other highly installation, use wiring boards and support installation pieces with drilling then bolt tightening.
3. All electric heater wire splice should pay attention to the balance of the three-phase, do not mistake grounded the 220v or 380v, and must grounded through the GFCI safety.
4. Two electric heaters should maintain few spaces when installed, if each other two close make damaged easily.
5. Ensure the hot zone (red marked below) must be immersed in the solution, or leading electric damaged by dry out. During the production process should be timely add the liquid and keep the calibration surface.
6. During the heating, do not take the heater from the liquid, but after put off the power a few minutes later, remove heater after entire cooling.
7. When use for high concentration solution heating, clean the heater with water after remove it from the tank, avoid the solution sediment be crystallization, agglomeration under low temperature on the heater.

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