

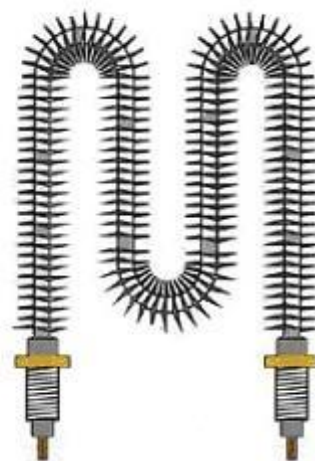
Finned Tubular Heater



I Type



U Type



Application

Duct heating, Space Heating, Air Heating, Shrink Tunnels, Ovens, Drying etc.

Material

- (1). Tubular : Standard is SUS304, or SUS316 to be ordered.
- (2). Fin : Standard is SUS304, or SUS316 to be ordered.

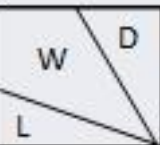
Typical maximum watt density

40W/inch² or 6W/cm²

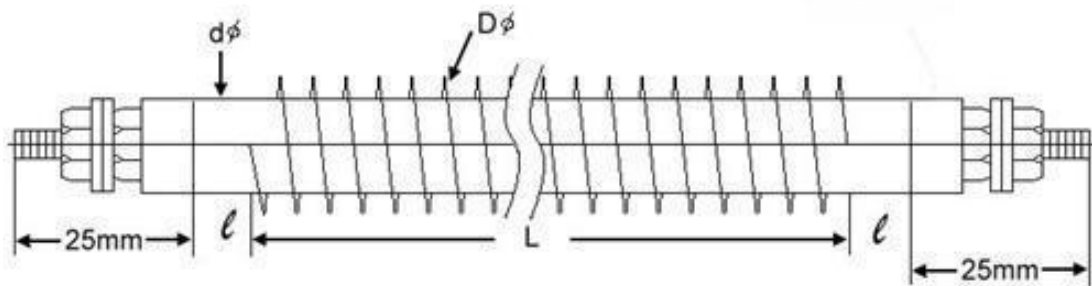
Maximum operating temperature

300 °C

Standard Specification

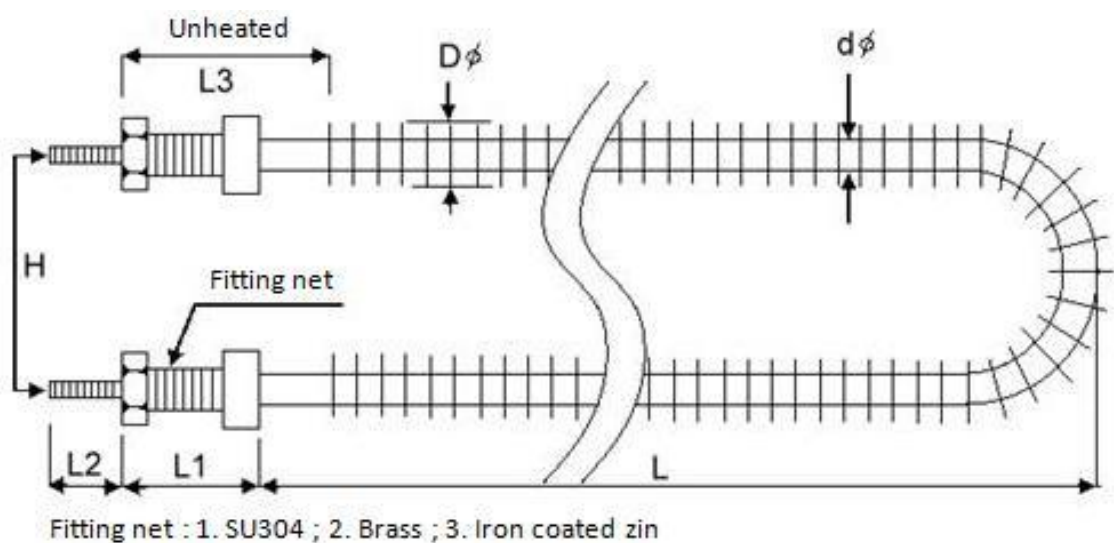
I Type				U Type			
	8m/m	11m/m	13.8m/m		8m/m	11m/m	13.8m/m
300	380W	520W	650W	150	380W	520W	650W
500	630W	860W	1080W	250	630W	860W	1080W
800	1000W	1380W	1730W	400	1000W	1380W	1730W
1000	1250W	1730W	2100W	500	1250W	1730W	2100W
1200	1500W	2070W	2600W	600	1500W	2070W	2600W
1400	1760W	2420W	3000W	700	1760W	2420W	3000W
1600	2000W	2760W	3500W	800	2000W	2760W	3500W
1800	2260W	3100W	3900W	900	2260W	3100W	3900W
2000	2500W	3450W	4300W	1000	2500W	3450W	4300W
2200	2760W	3800W	4700W				

I type :



L : Heating length l : Unheated length $d\phi$: Diameter $D(\phi)$: Fin diameter

U type :



Fitting net : 1. SU304 ; 2. Brass ; 3. Iron coated zin

Capacity Calculating Formula

$$\frac{\text{Dia. (mm)} \times \pi (3.1416) \times \text{width (mm)}}{100} \times 6$$

= Wattage (Maximum 6000 W for 200V up, 3000W for 100/110V)

Termination type

With SUS304 thread connection: $\varnothing 8\text{-M12}$, $\varnothing 11\text{-5/8"}$, $\varnothing 13\text{-3/4"}$

Order information

FH		u	X	ø8	X	300 m/m	L	X	110V	X	200W	+	ø	22m/m	+	60m/m
1		2		3		4			5		6			7		8

- (1). Finned Tubular Heater.
- (2). I or U (refer to drawing).
- (3). Tubular diameter (8, 11, 13.8).
- (4). Tubular length.
- (5). Voltages (100V~480V).
- (6). Wattages.
- (7). Fin diameter (ø22, ø25, ø27, ø29, ø31, ø33, ø35.5).
- (8). For U type only, standard is 60m/m, others are available
(refer to “H” in drawing)

※(7) & (8) If not mentioned, the standard will be produced.

Remark :

If possible, when you want to order the heater please indicating working temperature and circumstance in order to design proper products and keep long life for use.

Special finned tubular heater for air condition industry use



Technical Information

(1). How to calculate required wattage :

$$Kw = \frac{M \times Cs \times \Delta T}{864 \times t(h)} (1 + H \text{ loss})$$

M : Weight of heating object. t(h) : Time(hour).

Cs : Heating rate. 864 : Rate of K cal. change to K watt.

ΔT : Temperature difference. H loss : Heating loss (about 20%~30%).

(2). Various material character and heating rate sheet :

Material	Weight rate (kg/dm ²)	Heating rate (KCal/Kg°C)	Melted temp.°C
Water	1.00	1.000	0
Iron,cast	7.20	0.120	1176
Inconel 600	8.41	0.126	1371
Incoloy 800	8.00	0.130	1371
Gold	19.32	0.032	1062
Silver	10.49	0.057	960
Brass-yellow	8.47	0.096	932
Copper	8.91	0.095	1082
Steel	7.86	0.122	1515
Stainless steel 304	7.91	0.120	1398
Stainless steel 430	7.61	0.110	1454
Lead liquid	10.71	0.037	
Lead solid	11.34	0.032	326
Magnesium	1.74	0.270	650
MgO (Compaced)	3.10	0.209	
Nickel 200	8.88	0.120	1435
Nichrome 80/20	8.35	0.110	1398
Tin liquid	7.00	0.065	
Tin solid	7.27	0.052	232
Solder(Sn-Pb5%)	8.92	0.051	182
Aluminum	2.71	0.240	643
Cement board	1.94	0.250	
Brickwork	2.10	0.220	
Asphalt	2.10	0.400	
Molybdenum	10.21	0.071	2621
Mica	2.82	0.210	
Paraffin	0.88	0.690	56
Steatite	2.60	0.200	
Teflon	2.15	0.250	
Platinum	21.45	0.035	1773
Phenolic	1.27	0.400	
Monel 400	8.82	0.110	1315
Tantalum	16.60	0.035	2996
Tungsten	19.30	0.040	3410
Zinc	7.17	0.096	419
Titanium	4.53	0.130	1668

Sulfur	2.07	0.175	119
Zirconium	6.47	0.067	1848

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