

Ceramic Infrared Heaters



Application

Thermoforming, Ovens, Painting Dry House etc.

Material

The nichrome resistance wire cast-in glazed ceramic to protect it from oxidation or corrosion.

Typical maximum watt density

44w/inch² or 7w/cm²

Standard Specification

Half Trough Type (120mm L x 60mm W) :



Model		Wattage	Volt
Black	White		
MHB125	MHW125	125	220/240
MHB150	MHW150	150	220/240
MHB200	MHW200	20	220/240
MHB250	MHW250	250	220/240
MHB325	MHW325	325	220/240
MHB375	MHW375	375	220/240
MHB500	MHW500	500	220/240

Full Trough Type (240mm L x 60mm W) :



Model		Wattage	Volt
Black	Black		
MFB150	MFW150	150	220/240
MFB250	MFW250	250	220/240
MFB300	MFW300	300	220/240
MFB400	MFW400	400	220/240
MFB500	MFW500	500	220/240
MFB650	MFW650	650	220/240
MFB750	MFW750	750	220/240

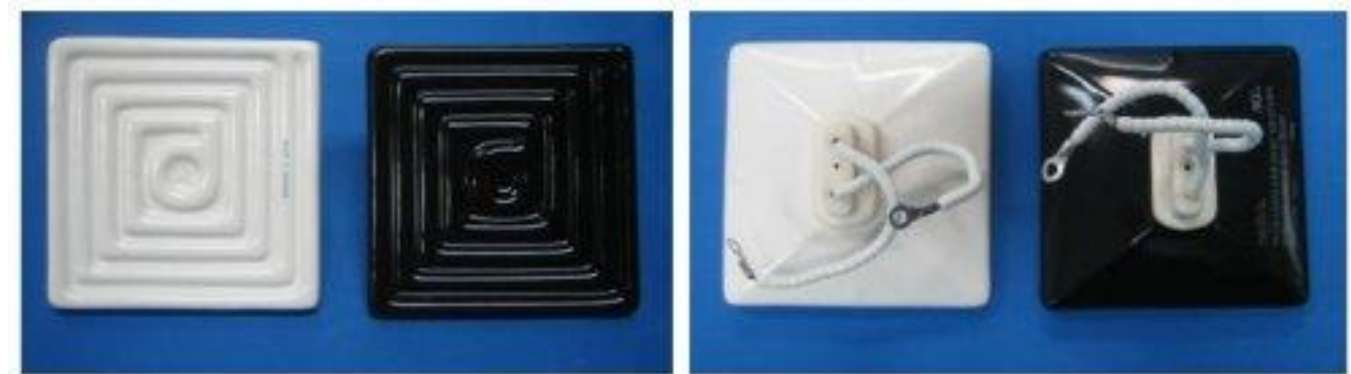
Plane and Square Type (120mm L x 120mm W) :



Model		Wattage	Volt
Black	White		
MPB250	MPW250	250	220/240
MPB400	MPW400	400	220/240

MPB650	MPW650	650	220/240
MPB800	MPW800	800	220/240

Square Type (120mm L x 120mm W) :



Model		Wattage	Volt
Black	White		
MSB250	MSW250	250	220/240
MSB400	MSW400	400	220/240
MSB650	MSW650	650	220/240
MSB800	MSW800	800	220/240
MSB1000	MSW1000	1000	220/240

Radiation Distance

100 mm to 200mm

Termination type

Standard is with ring terminal, pin and Y terminal are optional.

Order information

Refer to model NO. of specification, built-in “J” or “K” type of thermocouple are available.

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.

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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