

Reference Data

Quick Estimates of Wattage Requirements

The following tables can be used to make quick estimates of wattage requirements.

Kilowatt-Hours to Heat Steel ①

Amount of Steel (lb.)	Temperature Rise °F						
	50°	100°	200°	300°	400°	500°	600°
	Kilowatts to Heat in One Hour						
25	0.06	0.12	0.25	0.37	0.50	0.65	0.75
50	0.12	0.25	0.50	0.75	1.00	1.25	1.50
100	0.25	0.50	1.00	1.50	2.00	2.50	3.00
150	0.37	0.75	1.50	2.25	3.00	3.75	4.50
200	0.50	1.00	2.00	3.00	4.00	5.00	6.00
250	0.65	1.25	2.50	3.75	5.00	6.25	7.50
300	0.75	1.50	3.00	4.50	6.00	7.50	9.00
400	1.00	2.00	4.00	6.00	8.00	10.00	12.00
500	1.25	2.50	5.00	7.50	10.00	12.50	15.00
600	1.50	3.00	6.00	9.00	12.00	15.00	18.00
700	1.75	3.50	7.00	10.50	14.00	17.50	21.00
800	2.00	4.00	8.00	12.00	16.00	20.00	24.00
900	2.25	4.50	9.00	13.50	18.00	22.50	27.00
1000	2.50	5.00	10.00	15.00	20.00	25.00	30.00

① Read across in table from nearest amount in pounds of steel to desired temperature rise column and note kilowatts to heat in one hour.

Includes a 20% safety factor to compensate for high heat losses and/or low power voltage.

For Steel: Use table or metric equation.

$$\text{kW} = \frac{\text{Kilograms} \times \text{Temperature Rise (°C)}}{5040 \times \text{Heat-up Time (hrs.)}}$$

Product Information Sheet

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