

# IDEAS for The Heating Element

## I want to build my own heating element. What's included in the DIY kit?

For each heating element we include the following:

- (Qty: 1) Camco #02963 5500W (or #02953 4500W) 240VAC ultra low watt density (ULWD) RIPP element
- (Qty: 1) Weatherproof 2-gang outlet box
- (Qty: 2) Weatherproof 2-gang blank cover & gasket
- (Qty: 4) #6-32 machine screw hex nut
- (Qty: 4) #6 locking washer
- (10 feet) 300V 10/3 wire (10 gauge, 3 wires), oil/water resistant, rubber coating, rated for outdoor use
- (1 foot) 3/4" heat shrink tubing - black
- (Qty: 3) 10 AWG wire ring terminals
- (10 feet) 1/2" expandable braided sleeving - carbon colour
- (Qty: 1) NEMA L6-30 (250VAC/30A) twist lock electrical plug
- (Qty: 1) JB Weld cold weld compound
- (Qty: 1) Silicone high temperature o-ring  
(1-3/16" ID x 1-7/16" OD x 1/8" width, AS568A Dash No. 217, Durometer hardness A70, FDA compliant, -65F to +450F)
- (Qty: 1) Food grade silicone adhesive/sealant  
(-75F to +400F, Food grade: Meets MIL-A-46106B, Group I, Type I, FDA compliant, USDA approved, NSF 51 certified)
- (Qty: 1) Stainless steel washer/shim  
(0.075" thick, 1-1/2" ID, 2-1/4" OD)
- (Qty: 1) Standard straight cord/wire grip, 3/4" NPT  
(For cord diameter .50" to 0.63", aluminum, -30F to +225F)
- (Qty: 1) Stainless steel locknut 1" NPS

110V - 15A circuit ok  
105amps Pull 13.5" Long

1375W @ 12.5A

1 1/4" Hole w washer, nut + o-ring.

1" NPS welded fitting.

1/2" Pipe for LTF

? 3/4" Pipe for LTF

1 3/4" hole for Bullhead

3/16-7/8"

\$18.99 - 2 piece Titanium Step Drill bit

1-3/8" max

\$69.97 Kobalt Bi-metal Hole saw bit

3/4" - 2 1/2" Holes

\$13.47 Loves 1 3/4"

Every part is included except for spray paint (as paint cannot be sent through the mail). You supply the tools and the paint colour of your choice and follow our **instructions**. The box is not pre-drilled or pre-punched.

When building your own you'll need to supply the following tools and paint:

150° MAX Temp

- (Qty: 1) Aerosol spray can of general purpose grey enamel primer (for priming metal) **(Buy at: [Amazon.com](https://www.amazon.com), [eBay.com](https://www.ebay.com))**
- (Qty: 1) Aerosol spray can of hammered metal finish spray paint - silver colour (for painting metal) **(Buy at: [Amazon.com](https://www.amazon.com), [eBay.com](https://www.ebay.com))**
- (1 foot) Electrical tape **(Buy at: [Amazon.com](https://www.amazon.com), [eBay.com](https://www.ebay.com))**
- GreenLee 1-1/4" round chassis or radio (not conduit!) punch for making 1-1/4" diameter holes **(Buy at: [Amazon.com](https://www.amazon.com), [eBay.com](https://www.ebay.com))**
- 2-1/4" bi-metal hole saw for making 2-1/4" diameter holes **(Buy at: [Amazon.com](https://www.amazon.com), [eBay.com](https://www.ebay.com))**
- Drill press **(Buy at: [Amazon.com](https://www.amazon.com), [eBay.com](https://www.ebay.com))**
- Hand drill **(Buy at: [Amazon.com](https://www.amazon.com), [eBay.com](https://www.ebay.com))**
- Metal File **(Buy at: [Amazon.com](https://www.amazon.com), [eBay.com](https://www.ebay.com))**