RAMA CORPORATION

“INNOVATION THROUGH EXPERIENCE”
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RAMA CORPORATION
COILED NOZZLE HEATERS

FEATURES:

RAMA’s heaters are the ultimate design in coiled type heaters. Their design and technical development gives them a longer lifespan than the competition, due to special features including:

- 100% more surface contact
- High Temperature connection
- Integrated Thermocouple
- Proportioned profile heating

RAMA’s manufacturing methods surpass all other round or square designs. Many features are proprietary and were developed to give you the most efficient heating possible.

RAMA’s coiled nozzle heaters are available in several sizes off the shelf, or customized to your order. Due to more durable construction and form fitting shape, our coiled nozzle heaters outlast the competition.

APPLICATIONS:

- Plastic Injection Molding Nozzles
- Spruce Bushings
- Die Casting Nozzles
- Metal Forming Punches
- Food Processing Equipment

- Glue Systems
- Scientific and Medical Device Industry
- Laminating and Printing Presses
- And Much More

SPECIAL NOTES:

- Standard leadwire length is 36”, with 34” red fiberglass sleeving.
- Other options such as stainless steel braid, ground wire, stainless steel conduit are also available.
- Minimum profiled coil length is 1.50”
- Maximum non-profiled coiled length is 8.00”
- A tooling charge is required for a special flattened design other than our stocked ID’s
- Special diameters may require a tooling charge
- Thermocouple junctions cannot be grounded
- Type ‘K’ thermocouple is available
- Diameters up to 1” are the flattened design, diameters over 1” are non-flattened designs
- Leadwire adder includes groundwire
- Consult factory for special bend configurations or other requirements, tooling charges, etc.
COILED DESIGN PARAMETERS

THERMOCOUPLE
GROUND

1.49 ± .03
H
1.0 STANDARD
90°

LENTH +0/- .25

1.49 ± .03
H
1.0 STANDARD
90°

1.0 STANDARD
90°

NO PROFILE

OPTIONAL TERMINATION

O.D. = .25” + I.D.

STANDARD TERMINATION

.165

PROFILED

LENGTH +0/- .25

36 STANDARD

34 STANDARD

1/4 L 40% WATTAGE
1/2 L 20% WATTAGE
1/4 L 40% WATTAGE

.125 REF

.165

1 REF

90°

1/4 L 40% WATTAGE

1/2 L 20% WATTAGE

LENGTH +0/- .25

BEND CONFIGURATIONS

‘H’ DIMENSION

FIG. 1

FIG. 2

FIG. 3

FIG. 4

FIG. 5

FIG. 6

FIG. 7

FIG. 8

* Please specify termination and ‘H’ dimension when ordering *

O.D. = .25” + I.D.

TERMINATION

STANDARD

TERMINATION

OPTIONAL

TERMINATION

O.D. = .25” + I.D.

TERMINATION

STANDARD

TERMINATION

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TERMINATION

STANDARD

TERMINATION

OPTIONAL

TERMINATION

O.D. = .25” + I.D.
COILED DESIGN PARAMETERS CONTINUED

**VOLTAGE:**
120V/240V (Standard)

**STRAIGHT LENGTH:**
85” Max

**INSIDE DIAMETER/COILED LENGTH:**
All designs greater than 3-1/2” long will be normally profiled

**WATTAGE PARAMETERS:**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Minimum</th>
<th>Maximum</th>
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</thead>
<tbody>
<tr>
<td>.500”</td>
<td>160 Per Linear In</td>
<td>177 Per Linear In</td>
</tr>
<tr>
<td>.625”</td>
<td>164 Per Linear In</td>
<td>248 Per Linear In</td>
</tr>
<tr>
<td>.750”</td>
<td>145 Per Linear In</td>
<td>280 Per Linear In</td>
</tr>
<tr>
<td>.875”</td>
<td>143 Per Linear In</td>
<td>282 Per Linear In</td>
</tr>
<tr>
<td>.984” or 1”</td>
<td>128 Per Linear In</td>
<td>317 Per Linear In</td>
</tr>
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</table>

**NON-PROFILED (FLATTENED)**

<table>
<thead>
<tr>
<th>ID (Nom)</th>
<th>Max Profiled Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>.500”</td>
<td>7.75”</td>
</tr>
<tr>
<td>.625”</td>
<td>6.62”</td>
</tr>
<tr>
<td>.750”</td>
<td>5.50”</td>
</tr>
<tr>
<td>.875”</td>
<td>4.75”</td>
</tr>
<tr>
<td>1.00”</td>
<td>4.25”</td>
</tr>
</tbody>
</table>

| 12mm    | 8.00”             |
| 12.5mm  | 7.81”             |
| 16mm    | 6.43”             |
| 20mm    | 5.25”             |
| 22mm    | 4.87”             |

**PROFILED (FLATTENED)**

<table>
<thead>
<tr>
<th>ID (Nom)</th>
<th>Max Profiled Heat</th>
</tr>
</thead>
<tbody>
<tr>
<td>.500”</td>
<td>10.25”</td>
</tr>
<tr>
<td>.625”</td>
<td>8.75”</td>
</tr>
<tr>
<td>.750”</td>
<td>7.25”</td>
</tr>
<tr>
<td>.875”</td>
<td>6.25”</td>
</tr>
<tr>
<td>1.00”</td>
<td>5.50”</td>
</tr>
</tbody>
</table>

| 12mm    | 10.63”            |
| 12.5mm  | 10.31”            |
| 16mm    | 8.50”             |
| 20mm    | 7.00”             |
| 22mm    | 6.43”             |

Non-Profiled Heat
Uniform Wattage Distribution

Profiled Heat
Profiled Wattage Distribution