

IMMERSION CARTRIDGE HEATERS DESIGN CHECKLIST

Project Name: _____

Submitted by: _____

CUSTOMER – Company Name: _____

Contact Name: _____

Phone Number: _____ Email or Fax: _____

Address: _____

1. Application: _____

2. Design Features

Catalog Number	EM25	EM37	EM50	EM62	EM75	EM1.0	EM1.2	EM1.9	EM2.3
Bushing NPT	1/8	1/4	3/8	1/2	3/4	1	1-1/4	2	2-1/2
Element Dia (in)	0.25	0.37	0.5	0.62	0.75	1.0	1.25	1.9	2.3

Bushing Style: Single NPT Double coupling

Bushing Material: Brass or Stainless Steel

Sheath Material: Stainless Steel Incoloy or Other _____

Watts: _____

Volts: _____ Single Three phase

Length Unit of Measure: inches mm

Insertion length (from under hex cap to tip): _____



Lead Length: _____ or Post terminals (SF3).

Flexible (SF1) or High Amp/Repairable (SF2)

Bushing Material: Brass Stainless Steel or Incoloy

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Optional Integrated Thermocouple: Type-J Type-K Grounded Ungrounded

Sensing Location: In tip In middle

Potting Lead End: Epoxy - 265°F (SF21) Silicone Rubber - 400°F (SF20)
Ceramic-Metal Hermetic Sealing and Vacuum - 1000°F (SF23)

Enclosures: NEMA 1 general-purpose (SF13A); Moisture-resistant box (SF13B);
Explosion-resistant box (SF13C); NEMA 1 general-purpose rust resistant (SF13D)

Lead Configurations: Right angle (SF4); Spring protection (SF5); Ground wire (SF6);
Common fiberglass sleeve (SF7A); Individual fiberglass sleeve (SF7B); Common silicone sleeve (SF8A);
Individual silicone sleeve (SF8B); Strain-relief clip (SF9); Ceramic bead insulation (SF10)

Lead End Termination: Ring terminals (SF11A); Straight quick connect (SF11B; male or female);
Flag quick connect (SF11C; male or female); Spade terminals (SF11D); 2-prong NEMA 1-15P (SF12-P1);
2-prong twist lock NEMA L1-15P (SF12-P2); 3-prong twist lock NEMA L6-15P (SF12-P3);
3-prong twist lock NEMA L6-20P (SF12-P4); 3-prong NEMA 5-15P (SF12-P5)

Lead Protection (default 6" less than leads): Flexible stainless-steel conduit - Length _____ (SF14);
Flexible stainless-steel conduit right angle - Length _____ (SF15);
Stainless-steel flexible braid (SF16);

Optional Heating Finish: Passivated (SF38) Teflon coating (requires SF2 or SF3)

Special Features:
