Heating Polyethylene Tanks with PALADIN or EXT Series

CONCEPTUAL DRAWING

Tank Sizes Vary
To accommodate various tank shapes and sizes these concepts can be modified to suit any particular application.

Contact Heat-Line with tank size and dimensions to determine length of cable and watt density required. Once cable length is determined the actual grid layout can be designed.
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1. To determine heating cable length contact Heat-Line with the following information:
   1. **Tank:**
      - Size: __________ gallons
      - Dimensions: __________ (L) __________ (W) __________ (H)
   2. **Exposure ambient temperatures:**
   3. **Location:**
      - □ Above grade
      - □ Below grade
   4. **Insulation:**
      - Amount ______________________________________
      - Type ______________________________________
   5. **Voltage availability:**
      - □ 120
      - □ 208
      - □ 240

2. **Bottom view**

3. **Bottom view**

   • Adhere an aluminum tape grid for the heating cable on the bottom of the tank.

4. **Foil tape for adhesion of cable**

   • Lay heating cable onto foil tape and cover with another layer of foil tape sealing it tightly.

5. **Tank**

   • Roll cable to radius around corner and cover with foil tape.

6. **3 to 4" Urethane foam insulation**

   • Cover installed heater with 3 to 4 inches of urethane insulation.
Note: Be sure foil tape is completely covering the heating cable so that the urethane foam cannot “creep” between heating cable and tank.

- Exit cold lead from tank through 1” PVC conduit
- Thermostat controls can reduce energy consumption by 60% or more.

• 3/4” copper tube (sleeve for sensor) mounted to top of tank with foil tape.
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