Tempco’s Cool TO-THE Touch extruder heat/cool systems are custom engineered to provide optimal heating and cooling while providing personnel safety with a Cool Touch perforated outer layer. These systems are designed with finned cast-in heaters that optimize overall system efficiency.

The reflective inner layer of the shroud decreases the heat-up cycle, reducing energy consumption. The “maxi-flow” unrestricted blower port directs inlet air to the hottest part of the casting and distributes it evenly over the entire cross section of the zone.

Cool TO-THE Touch Construction Details

Dual Layer Shroud
✴ Inner Stainless Steel solid layer – radiation shield that directs the cooling air flow over the heater
✴ Outer Stainless Steel perforated layer – isolates hot surfaces from contact (cool touch)

Shroud Assembly Features
✴ Two Mounting Styles are available:
  ➡ Hinge with Barrel Clamps – designed for ease of installation
  ➡ Two Individual Halves with Barrel Clamps (Two-Piece) – used where installation space is tight or mounting is difficult
✴ Internal Support Straps or Support U-Bolt on blower mount half of shroud permits shroud to be opened for servicing without removing unit from barrel
✴ Anti-Rotate Tabs – used only with Finned Cast-In Heaters to prevent shroud from radial and axial movement around the barrel
  ➡ Tabs are cast as part of the heater (may require a Terminal Box)
✴ Blower Options – See page 3-41 through 3-43 for Complete Details
  ➡ Single or Dual Tempco Recommended Blowers available from 148 CFM up to 1210 CFM at 115V or 230V, or 480V 3-Phase
  ➡ Customer Specified blower
  ➡ Blower not required for Heat-Only Shrouds
✴ Blower Location
  ➡ Horizontal or Vertical Orientation
  ➡ Extension Housings Available
✴ Standard separate top Air Outlet
✴ Optional Air Outlet Features Include:
  ➡ Air Outlet Shield deflects air flow out of shroud and shields shroud from external solid contamination
  ➡ Air Outlet combined with Terminal Box
  ➡ Alternate Radial Air Outlet locations available
✴ Air-Inlet Baffle Optional
✴ Vent Hole(s) Optional

Heater Type and Components
✴ Recommended Heater Types – Finned Cast-In Heaters with standard 1/4” gap between heater halves, Ceramic Band and Maxiband Heaters
✴ Power Input Terminal Box with 7/8” dia. K.O. for 1/2” conduit:
  ➡ Standard 10-32 stud termination with ceramic or mica insulator
  ➡ With Louvered Cover – used when terminal box is separate from air-outlet
  ➡ Stainless Steel Screen – used when terminal box is combined with air outlet
✴ Power Input through Blower Mount – input wiring through knockouts in blower mount eliminates terminal box and facilitates ease of heater service

Sensing and Controlling
✴ Existing Zone Control Probe – Shroud System can be designed per customer specifications
✴ Tempco supplied Zone Control Probe
✴ Tempco customized Power Control Panel designed to complete Your Thermal Loop System

Ordering Information
See Page 3-36 for complete Ordering Information.