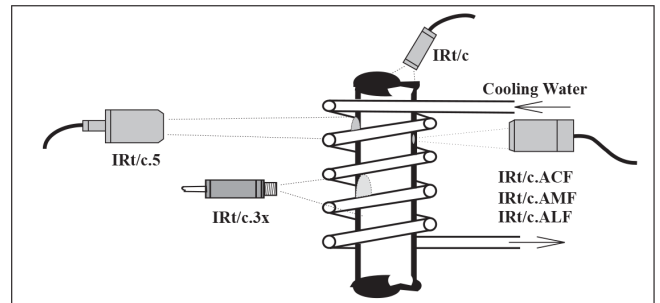


INDUCTION HEATER CONTROL

The induction heating process can be readily controlled by the temperature of the part as measured by an IRt/c non-contact infrared thermocouple. Several issues should be considered in an installation:

- 1. The effect of the field on the IRt/c:** since the measuring signal is electrically isolated from the housing, the IRt/c will operate in even a very strong field. The shield wire should be attached to a proper signal ground. If there is excessive heating from the field, consider using the cooling jacket kit, with the same water source as is used to cool the coil.
- 2. The field-of-view:** the preferred method is to view the part between the coil turns or from the end. Select the IRt/c model that best suits the requirements. For small gaps between coils, consider the focused models.
- 3. Part temperature:** IRt/c models can be used to measure target temperatures up to 5000°F (2760°C). Select the correct model for the control temperature desired.
- 4. Part surface material:** For bare metal parts the *Lo E* models are recommended. For coated or non-metal surfaces the *Hi E* models should be used.



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