How can you control the glass mold temperature for the production of bottles and glass containers?

Situation Analysis

From the furnace, the molten glass flows into one or more forehearths and is cut by a shearing blade to form a cylinder of glass called a gob. The gob is dropped into molds where initial forming is done. The glass first is blown or pressed from below into the blank molds to create a pre-container. The pre-container is then flipped over into a final mold, where the final container shaping is done.

- Temperatures: 400 to 500°C (752 to 932°F)
Solution and Improvements

Raytek Marathon series FA1 fiber optic pyrometer is the perfect match for temperature measurement at the container glass molds. The FA1 fiber optic pyrometer with its small optical head and flexible cable is the best choice for hard-to-reach locations and can be used without cooling in an ambient environment up to 315°C (600°F). With the high temperature head and cable, the electronics enclosure can be mounted away from the radiated heat in a safe location. Raytek DataTemp® MultiDrop software is a great way to capture and record temperature data for the purpose of mold temperature control.

Raytek Product

- FA1 Fiber Optic Pyrometer

Benefits

- Viscosity-Control
- Avoids Glass Breakage
- High Production Quality

Accessories

- Air Purge
- Optional: Cooling Platform for Electronics Housing
- DataTemp MultiDrop Software