

Glass Mold Temperature

Production of Bottles and Glass Containers



Q

Question

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



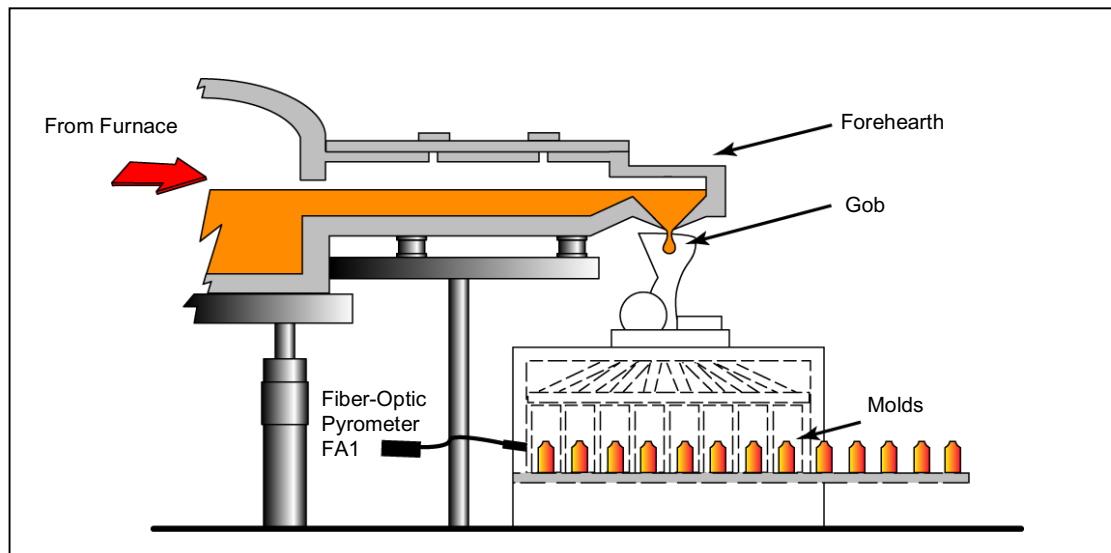
A

Answer

Situation Analysis

From the furnace, the molten glass flows into one or more forehearth 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.

- Glass mold temperatures: 400 to 500°C (752 to 932°F)



Monitoring of the Glass Mold Temperature

A

Answer

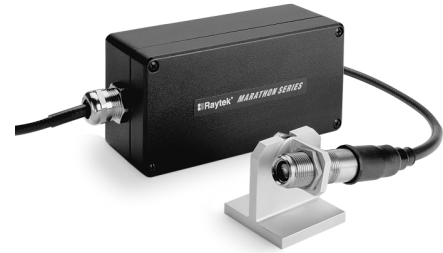
Solution and Improvements

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.



Fiber-Optic Pyrometer FA1

Raytek Product

- FA1 Fiber-Optic Pyrometer

Accessories

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

Benefits

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

For customized solutions to your process, please contact:

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