

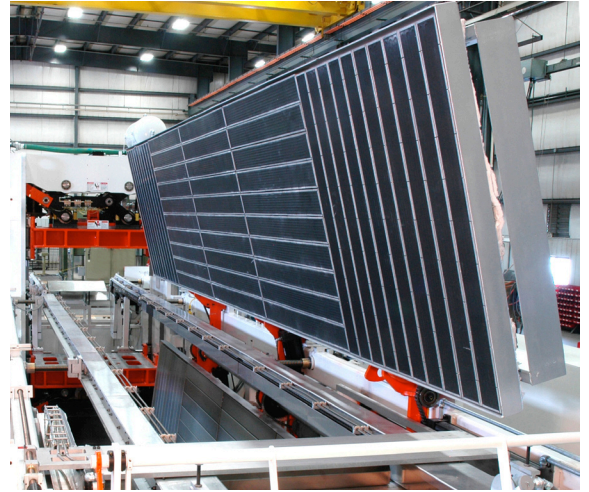
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Brown's Balanced Oven Profiling Provides Thermoformers Greater Temperature Control

With Brown's new Quad Series oven innovations, materials can be heated to a more consistent and **balanced** temperature profile. In this new configuration, panel heaters are mounted both perpendicular and parallel to material flow direction allowing zone profiling from front to back and side to side. Identically zoned entrance and exit oven segments allow the sheet to be heated to a consistent and precise **balanced** heat profile regardless of the mold length.



In addition to the new heating features are the introduction of adjustable upper and lower water-cooled plates. Located at the infeed of the oven, these plates eliminate "residual tunnel effect" heating and provide true "equal shot" length heating. When thermoforming less than full length molds, residual heat often causes sheet temperature deviations in the unheated area of the oven.

The cooling plates combined with the identically zoned entrance and exit oven segments result in an ultimate balanced heat profile... something never before achieved on large bed thermoforming machines.

With the addition this year of Brown's new **Smart Control System**, operators can also import and store mold layouts within the process recipe for oven screen displays specific to zone set-up and control. These graphic overlays show the operator precisely where the product aligns in relationship to the oven zones. This gives the operator the capability to quickly add or reduce heat to efficiently profile the sheet temperature.

Brown Machine LLC, Beaverton, MI, is the global leader of thermoforming solutions. Brown engineers and manufactures a complete line of continuous and cut-sheet thermoforming equipment and related tooling/peripheral equipment. Brown has designed and produced numerous thermoforming innovations since 1952 and has machines operating in over 65 countries worldwide.

To learn more, visit our website: www.brownmachine.com and/or talk to your Brown Machine representative about Brown's new balanced oven profiling.