



BLOW AIR COOLING UNIT CAC

Internal Product Cooling by Compressed Chilled Air

Cooling the product is the longest and most critical part of the solidification process. The fact that the mold only removes heat from the outside surface of the container causes material stress and extended cooling time in the mold.

The Compressed Air Chiller (CAC) replaces the regular blowing air with chilled compressed air (-35°C) inside the container during the blowing process.

Result: Heat is removed also from the inner surface of the container reducing material stress and cutting cooling time up to 40%.

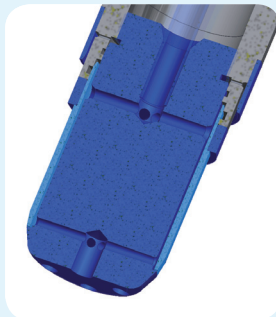
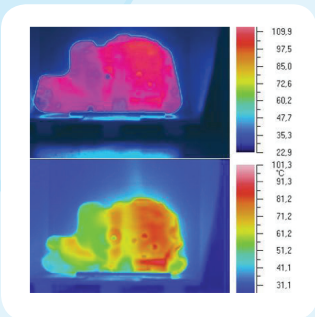
CAC Compressed Air Chillers provide the following advantages:

- Easy integration into production process with fully automatic operation
- Suitable for virtually all blow molding machines
- Low energy consumption and maintenance expenses
- Production increases up to 50% (depending on the product)
- Quick return on investment between 1 month and 1 year
- CFC-free system

CAC Operating principle:

The internal cooling system with compressed air has been developed for specific and intensive heat removal from the inside of blow molded products. Units are available in 5 standard sizes with a process air volume from 120 up to 540 Nm³/h and a compressed air outlet temperature of -35°C.

Special designed and tailor made blow pins blow the chilled air even to critical parts of the product and guarantee optimal exchange of the chilled air. The blowing valve block is used to control the blowing process and available for every type of blowing process.



Production increase



Production increase



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Production increase



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Production increase