

APPLICATION: STRETCH BLOW MOLDING

In SBM machines the PET plastic is first molded into a “preform” using the injection molding process. These preforms are produced with the necks of the bottles, including threads on one end. They are packaged, and fed later into a reheat stretch blow molding machine.

We provide [chillers](#) delivering cold water in order to:

- * cool aseptic plastic instantly
- * cool the cavities
- * cool the furnaces

For fastest cycle times, water temperature should be between 8 and 10 C (46 and 50 F). High-volume water flows are more important than the coldest temperatures. Increasing the chiller pump size and running at 20 C water temperature may be cheaper than running the coldest possible water with a smaller pump. The key is balanced water flow to all cores and cavities within the blow molding equipment.

Chillers for SBM processes must be able to handle two separate cooling circuits, with different temperature levels. Each recipe for sizing and setting up a proper liquid cooling system is developed and customized according to the SBM machine manufacturers' needs.

The availability of chilled water easily leads to the replacement of cabinet cooling units with [air/water heat exchangers](#): maintenance-free operation and very low power consumption allow the application to realize significant operational savings. Additionally, all of our designs have options including: Stainless Steel Covers - 304 SS, #3 polish to match enclosures and protect electronics within washdown environments.



Pfannenberg Solution



A/W Heat Exchanger

Air/Water Heat exchangers for enclosure cooling

The use of Pfannenberg air/water heat exchangers is particularly suitable where ambient temperatures are high or the atmosphere proves to be particularly oily or aggressive.

Maintenance-free operation and extremely low noise emission. Ideal application areas wherever machines or production processes are cooled by tempered water and water is thus already provided.



Chiller EB 2.0

Chillers for process fluid cooling

Packaged and ready to use, Pfannenberg chillers require only piping & power to install a solution for process cooling applications. Equipment options are available to easily customize standard chillers and meet specific application requirements. We are committed to the highest level of design and manufacturing accuracy to make sure your chillers performs as expected.



Global Technical Service

Global Technical Service for chillers and cooling units from all manufacturers

- >> 24/7 worldwide presence
- >> commissioning
- >> maintenance and repair
- >> F-GAS / leakage tests
- >> spare part kits
- >> service trainings
- >> PSS - Pfannenberg Sizing Software



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