

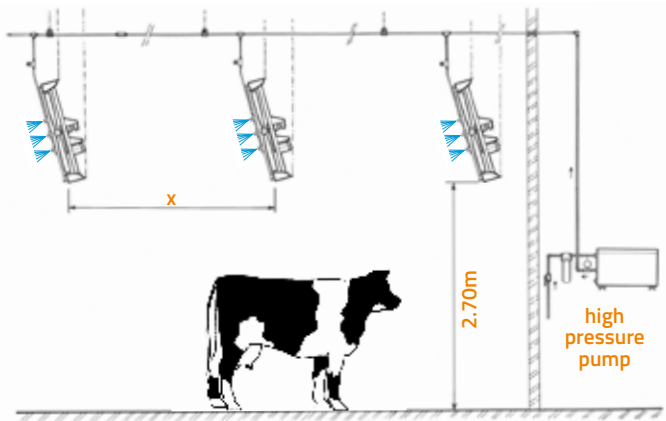
Misting

Besides cooling the barn using Abbi fans, additional cooling is possible through water. This involves either adding moisture to the air or to the cows themselves.

Abbi high-pressure misting systems add moisture to the air above the cows, not the cows themselves. The atomised water droplets evaporate immediately, cooling the ambient temperature, which in turn allows the cows to release their body heat.

Each fan (Abbifan and Appi-Apex) is mounted with a misting bracket with several nozzles (sprinklers). A high-pressure pump supplies water at 60-70 bar to the nozzles. The water droplets form a fine mist, which evaporates into the air. The evaporation process takes the heat out of the air. Depending on the barn's humidity levels, this method can achieve a cooling effect of up to 3 to 5 degrees in the air temperature!

The air humidity levels and other settings need to be regulated through the controller. This works perfectly with the unique misting program which comes with the highly user-friendly Abbi DCC-Touch Climate Controller.



Abbi fans:

Abbifan & Abbi-Apex

Soaking

In contrast to misting, during soaking, water is applied directly to the cows instead of the surrounding air. The system showers the cows with coarse droplets; fans then blow air over the cows' bodies to cool them further. The water on their skin evaporates, providing a cooling effect.

In most cases, a water pipe is installed near the feed fence and/or over the waiting area or when they return from the milking parlour. The water pipe is mounted with nozzles which then spray water under low pressure at 1.2 bar over the backs of the cows at an angle of 180° and 360°, respectively. A spraying pattern with a jet of max. 2.40 metres is optimal to prevent the cubicles from getting wet.

Our DCC-Touch Climate Controller comes with a unique Abbi soaking module, making it the ideal controller for this system!

