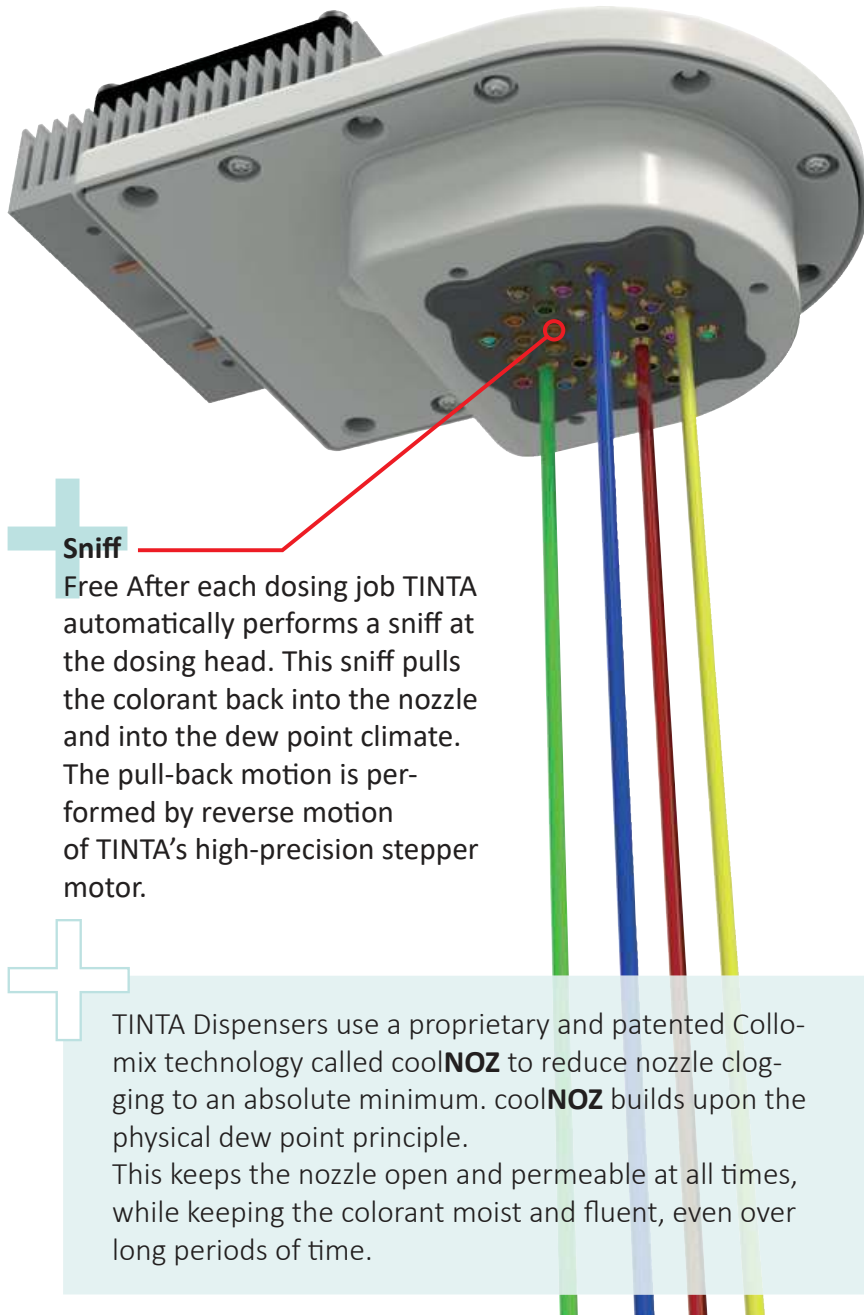


coolNOZ

TINTA

A Dispenser Without Purging

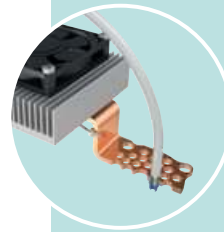
How does coolNOZ eliminate frequent purging and reduce purge waste by up to 90 %?



Sniff

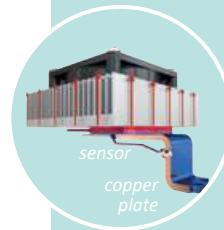
Free After each dosing job TINTA automatically performs a sniff at the dosing head. This sniff pulls the colorant back into the nozzle and into the dew point climate. The pull-back motion is performed by reverse motion of TINTA's high-precision stepper motor.

TINTA Dispensers use a proprietary and patented Collomix technology called coolNOZ to reduce nozzle clogging to an absolute minimum. coolNOZ builds upon the physical dew point principle. This keeps the nozzle open and permeable at all times, while keeping the colorant moist and fluent, even over long periods of time.



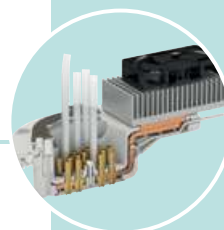
coolNOZ generates and maintains a precisely balanced dew point microclimate inside and around the tip of the dosing nozzle. The system's

software-controlled dew point technology prevents the exchange of moisture with the surrounding air, eliminating the evaporation of water from the colorant inside the nozzle.



With the help of sensors and a Peltier element connected to a copper plate, TINTA coolNOZ technology keeps the temperature in the nozzle always at dew point. A plastic housing around the cooling components ensures good insulation.

Dew point is the temperature point, where airborne water vapor will start to condense into liquid water. At dew point, the air's relative humidity is 100 percent, which means that at that temperature the air is saturated with water vapor.



TINTA's coolNOZ technology combined with an extremely accurate piston pump stepper motor enables quick, high precision dosing,

even in smallest batches. coolNOZ' 3 mm nozzles produce a highly precise dosing jet with fast and accurate flow stops.

Result:

TINTA coolNOZ technology

- creates a perfect microclimate that prevents the colorant from drying out and keeps the nozzle open - for months on end.
- keeps the colorant in prime condition, moist and fluid.
- eliminates the need for frequent purging.
- is fully automatic and software-controlled.