

Case Study: CPS – Tetrapak Group
PowerPurge

Munters solutions give you:

- Eliminate mould or bacteria growth
- Energy efficient
- Cost effective
- Contribute to CO2 reduction
- No need to pre cool
- No wet surfaces



PowerPurge achieves lower energy costs for CPS - Tetrapak Group

The benefits of Munters new GTR-rotor and patented PowerPurge systems were seen immediately by CPS - part of the Tetrapak Group for their latest fluid bed drying application. CPS have installed a stainless steel 20,000m³/h Munters MDU system capable of going from 18g/kg to 2g/kg in one step.....a major achievement for CPS.

CPS supply dairy, cheese and powder processing systems and see the "No Wet Surfaces". capability (as it avoids pre-cooling) as a major benefit in increasing hygiene.

The new GTR-rotor enables a big dehumidification capacity to be created i.e. achieve a low process air moisture content using only a single step, so eliminating the need to pre-cool.

In many industries drying is based on conventional heat and vent, this has one common harmful drawback: The drying process effects product quality due to outdoor climate and seasonal variations.

With Munters new GTR technology, applications such as a spray-drying benefit in a reduction of absolute moisture content whilst increasing the process air temperature.

Risks for mould growth and bacteria developing in critical locations has to be avoided. Whilst condensation cooling with wet surfaces may have been accepted in the past, food processors now reject this approach in favour of "Dry" processing.

With Munters approach cooling equipment is now superfluous as the Munters GTR

rotor can do the job, so increasing Munters opportunities in these applications.

The temperature increase due to dehumidification of the process air outlet is not always welcome and can now be reduced using Munters new patented PowerPurge. Sensible heat is transmitted from the reactivation outlet sector into the reactivation inlet sector and simultaneously the heat load to the after cooler is reduced by the same amount.

With the PowerPurge the COP of the cooling equipment can be improved - meaning less consumption of expensive power. Everyone talks about the weather, but who changes it? Munters changes the climate and contributes to World CO₂ reduction.