

ML Plus-system creates perfect coating conditions

Munters MLPlus-system enables coating of pills at demanding conditions.

Jemo-pharm A/S is a danish pharmaceutical company, producing herbal medicine, nutritional supplements and vitamins.

The company is GMP-certified, which is normally not required for production of nutritional supplements but as Jemo-pharm A/S has a GMP certified production of medicines, all products are produced in accordance with GMP.

The GMP rules contain comprehensive requirements to eg. production climate conditions and today dehumidification from Munters, helps Jemo-pharm A/S to fullfil these requirements.

By capsuling of cranberry powder a relative humidity below 30% is required. At a higher humidity the powder changes consistency and becomes sticky and flowing, making the cuupsuling impossible. A Munters dehumidifier type ML420 provides the perfect climate for this production process, keeping the powder dry no matter the ambient air conditions.

When Jemo-pharm A/S started up production of garlic pills, the coating process requested a dry climate with a temperature at 20°C and a relative humidity below 20%. To create this condition only by conventional cooling would be impossible, so Munters were asked to provide a solution, and a ML690Plus was designed to meet these requirements. This MLPlus is provided with an integrated pre- and postcooler. The precooled air (+15°C saturated) is lead through the desiccant wheel and is dehumidified down to a water content of 2.5 g/kg. Hereafter the air is postcooled from +45°C to +18°C before it is lead to the coating process. The dry air supply (17%RH) to the coater reduces the duration of the coating procedure with upto 2/3, meaning a considerable higher production capacity and with constant coating conditions.

The smaller footprint of the MLPlus unit compared to separate units for cooling and dehumidifying, was a major argument for choosing the MLPlus solution. The unit had to be installed outdoor in a shed with limited space conditions, adjacent to the production facility.



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Coating of pills



Dehumidification ensures:

- Optimal conditions for coating
- Coating time reduced by 2/3
- Stable conditions around the year
- MLPlus-system provides small footprint

