

ML Plus creates perfect coating conditions for Jemo

ML Plus-system enables coating of pills in 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 fulfil these requirements.

Encapsulating cranberry powder requires a relative humidity below 30%. At a higher humidity the powder changes consistency and becomes sticky and interrupts flow, making encapsulating impossible. A Munters dehumidifier type ML 420 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 provided a ML690Plus 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 by 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 has been installed outdoor in a covered area with limited space.



AUSTRALIA
Tel +61 2 8843 1588
CHINA
Tel +86 10 804 18000
INDIA
Tel +91 20 668 18 900
NETHERLANDS
Tel +31 172 43 32 31
SWEDEN
Tel +46 8-626 6300
UNITED KINGDOM
Tel +44 8708 505 202

AUSTRIA
Tel +43 1 6164298-0
DENMARK
Tel +45 4495 3355
ITALY
Tel +39 0183 521377
POLAND
Tel +48 58 305 35 17
SWITZERLAND
Tel +41 52 3438886
UNITED STATES
Tel +1 978 241 1100

BELGIUM
Tel +32 2 240 68 68
FINLAND
Tel +358 9 8386 030
JAPAN
Tel +81 3 5970 0021
SINGAPORE
Tel +65 6744 6828
THAILAND
Tel +66 2 642 2670-3
VIETNAM
Tel +84 8 825 6838

BRAZIL
Tel +55 41 3317 5050
FRANCE
Tel +33 1 3411 5757
KOREA
Tel +82 2 761 8701
SOUTH AFRICA
Tel +27 11 997 2000
TURKEY
Tel +90 212 286 1838

CANADA
Tel +1 905 8585894
GERMANY
Tel +49 40 73416-01
MEXICO
Tel +1 52 722 270-4029
SPAIN
Tel +34 91 640 09 02
UNIT. ARAB EMIRATES
Tel +971 4 881 3026

www.munters.com

Coating of pills



Dehumidification ensures:

- Optimal conditions for coating
- Coating time reduced by 2/3
- Stable conditions year round
- Compact foot print
- Hygienic casing design
- Minimise energy consumption



Munters