Data sheet
Multi-layer belt dryer floradry® SMART

Technical process: Efficient convection drying with heat exchanger

Technical data for 5 modules including fan module:

- **Products:** grass, foliage, fermentation residues, sawdust, wood chips
- **Dryer input power:** on inquiry
- **Dryer output power:** on inquiry
- **Water evaporation per hour:** on inquiry
- **Heating output:** max. 600 kW
- **Heating medium:** heat exchanger (approx. 85 °C forward flow/65°C return flow)
- **Product bulk density:** approx. 650 - 950 kg /m³
- **Control range for filling height upper belt:** 20 - 200 mm
- **Control range for filling height lower belt:** 20 - 200 mm
- **Drying temperatures:** 40° - 110° C
- **Relative humidity:** 60%
- **Electrical ratings:**
  - Fan: 1 x 18.5 or 22.0 kW/400 V
  - Belt drive: 2 x 0.25 kW/400 V
  - Metering device: 1.5 kW/400 V
  - Belt brush: 0.75 kW/400 V
  - Discharge: 1.50 kW/400 V
  - Spiked roller: 4 x 0.55 kW/400 V
- **Dryer dimensions:**
  - 2,700 x 12,000 x 3,200 mm (width x length x height)

Drive unit and product transport

- **Special drying belt**
- **Length:** 1 x 18,800 mm, 1 x 18,400 mm
- **Speed:** preset at 0.31 m/min
  (Manually adjustable at the control cabinet)
- **Transport belt drive:** standard gear unit
  Nord SK13080AZBDH-71L/6 TF / 0.4 min⁻¹
- **Support rollers:** aluminium pipe, Ø 90 mm

Electrical switchgear and control system

- **Power unit, operating and control unit are integrated in the control cabinet**
- **Equipment:**
  - Emergency off switch, main switch, motor circuit-breaker,
    thermal safety overload, switch, power fuse, switches, potentiometer
  - Frequency converter for belt drive
  - Frequency converter for filling unit
  - Level monitoring in filling tank
  - The switchgear design is performed within the overall control cabinet design according to VDE regulations

Metering and product filling (filling unit)

- **Product filling** integrated in dryer structure
  - Scraper floor for consistent metering and distribution on the work areas of the belt
  - Spiked rollers for loosening the product in the receiver tank and for preventing bridge formation, optional
- **Drive of filling unit:** SK12080AZBDH-80LH / 4 TF / 6 0,4 min⁻¹

Generation of the hot air flow

- **Water/air heat exchanger, 600 kW, at a process temperature of 95°

Documents in the scope of supplies:

- Operating manual belt dryer and filling unit
- Operating instructions and circuit diagrams for the control system

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