

Data Sheet 76

Cimbria Band Dryer Type BK



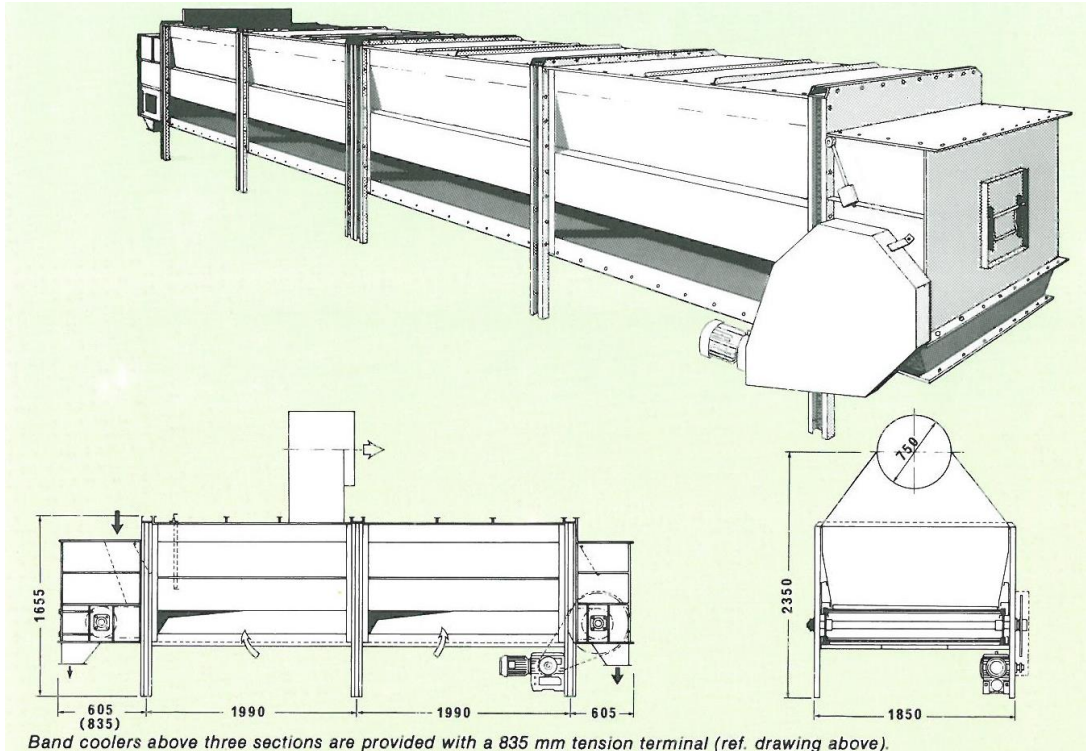
The Cimbria Band dryers type BK are primarily designed for drying of difficult material requiring great care for instance grass seed or especially wet products, where a predrying process may be advantageous.

The band dryer is an all steel heavy duty machine manufactured as standard in 2 to 10 sections. The modular system permits virtually any number of sections to be added either in single row or in layers on top of each other. Furthermore, the modular system means fast delivery and installation.

The exhaust fan draws the hot air through the lamella plates and the material to be dried. This creates a partial vacuum and prevents both dust and heated air escaping.

By means of an adjustable vertical shutter the depth of the grain layer is controlled. The correct depth depends on grain type, temperature, exhausters and flow-through capacity. A typical depth will be around 30 cm.

The discharge end as well as the inlet shutter is equipped with a flexible rubber curtain, which minimise false air intake.



The band coolers are available with built-on heating elements for hot water or steam, or can alternative be fitted with hot air generator of the direct fired type.

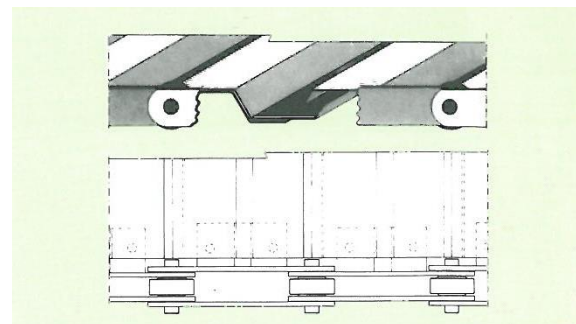
The conveyor band is designed in steel lamella secured to two drag chains running on each side of the dryer band. The special gap between each lamella ensures even air distribution.

Drying air 85°C

Number of sections	Capacity (volume)	Heat demand	Band speed (30 cm depth)
2	5,1 m ³ /h	205 Mcal/h	10 mtr/h
3	8,1 m ³ /h	307 Mcal/h	15 mtr/h
4	10,3 m ³ /h	410 Mcal/h	20 mtr/h
5	12,8 m ³ /h	513 Mcal/h	25 mtr/h
6	15,4 m ³ /h	615 Mcal/h	30 mtr/h

Drying air 100°C

2	6,2 m ³ /h	245 Mcal/h	12 mtr/h
3	9,3 m ³ /h	368 Mcal/h	18 mtr/h
4	12,3 m ³ /h	490 Mcal/h	24 mtr/h
5	15,4 m ³ /h	613 Mcal/h	30 mtr/h
6	18,5 m ³ /h	735 Mcal/h	36 mtr/h



Because the rates of drying depend on many factors which can influence the output the table above should be regarded as a guide only when deciding on the suitable size of dryer to meet local requirements.

For special purposes please contact Cimbria.

Ambient air 15°C, 75% RH.

Air volume approx. 5000 Nm³/h per section.

Capacities relate to a moisture reduction from approx. 33% to 27% and from 20% to 16%.

The band dryers can also be used for cooling of feed pellets of relatively high temperature. The cooling is done by aeration utilizing ambient air.

It is vital to ensure a sufficient feed rate enabling a correct depth of grain and therefore uniform drying to be achieved.

The band dryer is therefore provided with a level indicator connected to the feeding conveyor, thus controlling the input capacity and also preventing overflow.

The outlets are located beneath the drive terminal.

In order to collect chaffs etc., if any, passing through the lamella the dryer is equipped with a tray under the conveying band. The tray is easily cleaned by opening two rapid-clamps.

The air volume and pressure varies greatly in relation to the depth (layer) of grain as well as the throughput capacity.

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