

Machinery in Perfection

Modular Dryer Offers Flexibility, Patented Airflow System

Coatema Maschinenbau GmbH has developed a new, patented, explosion proof drying system especially for coated products.

This system, called Moduldry, is very flexible in design. It can be used for drying, foaming and curing coated materials such as textiles, nonwovens, paper, films, foils, and specialty webs such as expanded metal foils, membranes, etc..

The primary goal of most R2R coating operations is the highest quality for the dried product. To achieve a high quality result the three main parts of a coating line, the coating application system, the dryer, and the process handling, must be a good fit. If any one part fails the finished coated product is of poor quality.

Advanced coating application markets require the highest quality drying, curing and foaming technology. The Moduldry system provides the flexibility to serve these markets effectively and economically.

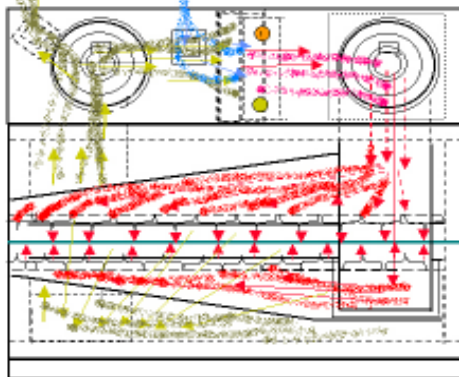
The Moduldry system starts with individual 3m sections, each with 2 circulation and 1 exhaust ventilators. Sections are grouped together to provide the required drying capacity.

For simple drying tasks, a single exhaust ventilator can be used. For more complex tasks, each 3m section is fitted with an exhaust ventilator. This is a major benefit of the Moduldry system.

By Thomas Kolbusch
& Bob Sandbank



The 1.200 mm wide Moduldry in the Coatema technical center.



Moduldry's patented jet dryer system provides unique control of airflow and temperature over the entire working width.



Features of the Moduldry system:

- ◆ Each 3m long module is delivered in three parts for easy installation
- ◆ Working widths from 1m to 5.2m
- ◆ Patented jet dryer system provides unique control of air flow and temperature over the entire working width
- ◆ Newly designed nozzles optimized for coating operations
- ◆ Adjustable nozzles at the start and end of the jet dryer
- ◆ Explosion proofed ventilators
- ◆ Two separately controlled servo ventilators for differential circulation of air in the upper and lower chambers
- ◆ Separate heat setting for two heat exchangers is an option
- ◆ One exhaust ventilator in each 3000mm section in the coating Moduldry layout
- ◆ One exhaust ventilator at the end of the stenter Moduldry version
- ◆ Solvent filled air is evacuated from the bottom chamber avoiding contact with the coated substrate
- ◆ Easy to clean and maintain
- ◆ No circulation deadzones to cause plastizer drips
- ◆ The Moduldry can be equipped with a tenter, a conveyor belt or support rollers, or it can be used as a flotation dryer

These benefits offer an efficient and economical solution for drying coated products.



For complex tasks each 3 meter Coatema Moduldry section is fitted with an exhaust ventilator.



Moduldry with one of many coating heads available from Coatema.

The Moduldry is already installed at coating companies worldwide.

It can be seen and is available for trails at the Coatema Technical Center in Dormagen, Germany.

The Center provides state of the art technology in coating and laminating and offers a great opportunity for R&D and sample production.

EurotecUSA represents Coatema Maschinenbau GmbH, in the United States, Canada and South America.

EurotecUSA is a international manufacturer's representative with 30 years of experience marketing and servicing leading edge technologies to a broad range of industries.

Technical Data Each Module	Working Width 1000 - 3000mm	Working Width 3000 - 5200
Height	2485 mm	2485 mm
Width	2000 - 4000 mm	4000 - 6000 mm
Length	3000 mm	3000 mm
Circulating air volume (frequency controlled)	2 x 5000 m ³ /h max.	4 x 5000 m ³ /h max.
Required power	2 x 3kW	4 x 3kW.
Outgoing air	5000 m ³ /h max.	10,000 m ³ /h max.
Required power	1 x 3 kW	2 x 3 kW
Fresh air	max. 5000 m ³ /h	max. 5000 m ³ /h
Drying temperature	250°C	250°C

Editor's Note: Thomas Kolbusch is a Managing Director of Coatema Maschinenbau GmbH and is responsible for worldwide sales and marketing of coating and drying systems for advanced technologies.

Bob Sandbank is the President of EurotecUSA and represents Coatema in the United States, Canada and South America.



Represented by:

EUROTEC USA Inc.

2378 E. Big View Dr., Oro Valley, AZ 85755
520.818.9551 INFO@EUROTECUSA.COM