Bekaert at your service

Would you like more information about Bekaert UniDryer® or discuss a specific project with one of local sales representatives?

Contact us today!
Our skilled and responsive sales and service professionals will quickly serve you around the world.

infrared-drying.bekaert.com
www.bekaert.com

Minimize your operating costs while improving your paper quality
Why choose Bekaert

The expert in infrared and air drying equipment

Thanks to our wide range of standard and customized infrared and air solutions, Bekaert can offer products of the highest quality and performance.

Global presence

Bekaert is active in more than 120 countries and employs over 25,000 people worldwide. Our production platform for infrared and air drying equipment is headquartered in France and supported by offices in the USA, Indonesia, China and Brazil, as well as a local agents network.

Customer satisfaction

To keep meeting the market's needs, we are continuously gauging for your opinion about our products and services. Through benchmarks in terms of quality, energy efficiency and lifetime we can further improve our systems for the benefit of your process.

Why choose a combined infrared and air drying solution?

When choosing the right technology for drying coatings, several aspects need to be taken into account, such as energy consumption, quality, compactness, ease of implementation and flexibility.

While classic technologies like air-drying and infrared systems come with drawbacks, the combination of both offers a much better solution.

The Bekaert UniDryer® offers just that!

<table>
<thead>
<tr>
<th>Power density</th>
<th>Efficiency</th>
<th>Quality</th>
<th>Drying flexibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas IR</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Air Drying</td>
<td>+</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>UniDryer®</td>
<td>+</td>
<td>++</td>
<td>++</td>
</tr>
</tbody>
</table>

Benefits

Lower operating costs

The UniDryer® reaches high energy efficiency levels thanks to the combination of the superior performance GemE emitters and the improved convection without requiring a heat exchanger or an external gas burner. Efficiency can be improved even more through our ERS (Energy Recovery System) solution by recirculating the final exhaust air from the UniDryer® into an air dryer.

Operating costs for different drying systems

<table>
<thead>
<tr>
<th>Drying System</th>
<th>Operating Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traditional Infrared Dryer</td>
<td>90-100%</td>
</tr>
<tr>
<td>Traditional Air Dryer</td>
<td>80-100%</td>
</tr>
<tr>
<td>UniDryer®</td>
<td>75-85%</td>
</tr>
<tr>
<td>ERS (UniDryer® + Air Dryer)</td>
<td>60-70%</td>
</tr>
</tbody>
</table>

Based on Bekaert lab results and measurements

Higher quality

Thanks to its flexibility, the UniDryer® meets your high quality standard. By regulating the power level of each two rows of emitters, the drying rate can be controlled while the alternate use of air and infrared radiation stabilizes the coat temperature.

The cross direction moisture profile can be improved by integrating a profiling option. When each side of the web has a different coating weight, perfect quality can be achieved thanks to the top-bottom drying flexibility of the UniDryer®.

Excellent lifetime

Bekaert's range of Gem emitters has proven to have an excellent lifetime.

Save up to 50 % on your installation costs

Thanks to its compactness, integrated air fans and motors, the UniDryer® doesn't require recirculation ducting. This makes the installation of the system a lot easier and cheaper.

Emitter types

The Gem family includes Gem7E, Gem9E and Gem12E. This offers maximum flexibility to meet your future drying requirements.

Nominal emitter power

<table>
<thead>
<tr>
<th>Emitter Type</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gem7E</td>
<td>Up to 7 kW</td>
</tr>
<tr>
<td>Gem9E</td>
<td>Up to 9 kW</td>
</tr>
<tr>
<td>Gem12E</td>
<td>Up to 12 kW</td>
</tr>
</tbody>
</table>

Options include:
- Cross direction moisture profiling
- Automatic web width selection
- Fire Prevention System
- ERS (Energy Recovery System)