BLUE TECHNOLOGIES

In the light of rising energy costs and environmental affairs the optimization of cigarette factories’ energy performance is indispensable. In result of continuously work in research and development and intensive development cooperation, Riedel offers to our customers blue technology solutions supported by state-of-the-art Eco Mode automation system resulting in significant energy savings.

Why blue technologies?

• Reduction of electrical energy consumption in tobacco feeding and maker de-dusting process
• Reduction of conditioned air consumption in SMD area
• Reduction of compressed air consumption of filter plants
• Increasing yield, uptime, process performance and product quality

Our Solutions

• MAC - Maker Airflow Control
• SACU tobtronic® (patented technology) – Tobacco speed control
• SoftClean – Compressed air consumption control
• Eco Mode – On-line energy consumption control

User Benefits

• Reduction of electrical energy consumption up to 50 %
• Reduction of conditioned air consumption up to 40 %
• Reduction of compressed air consumption up to 20 %
• Higher yield, uptime, process performance and product quality

Riedel blue technologies can be easily integrated into new and existing factories.
BLUE TECHNOLOGIES

MAC – Maker Airflow Control
MAC is the latest innovation of Riedel that is developed to reduce the required air volume of rod forming process on cigarette makers. This results in a significant reduction of energy and conditioned air consumption. In addition, the MAC improves the homogeneity of tobacco in cigarette rod during forming process that reduces reject level and improves cigarette quality.

SACU tobtronic® – Tobacco Speed Control
This worldwide proven technology enables the lowest possible tobacco conveying speed level that increases tobacco yield and energy savings. Our SACU tobtronic® measures and controls air and tobacco speed inside the feeding pipe. During network operation with filter plant our SACU tobtronic® reduces energy consumption remarkably.

SoftClean – Compressed Air Consumption Control
SoftClean is a specially developed software system enabling significant reduction of compressed air consumption during filter process. The required negative pressure and air volume of an individual filter plant is being continuously monitored by specially developed control system. All relevant parameters of current system status are analyzed via PLC to control the intensity of cleaning as required. In result this reduces the compressed air consumption significantly and extends the lifetime of filter bags.

Eco Mode – On-line Energy Consumption Control
Eco Mode is a specially developed software system enabling significant reduction of energy consumption during feeding and maker de-dusting system operation. In combination with a frequency converter the negative pressure of the filter system is controlled via continuous process data collection, e.g. required negative pressure, SACU tobtronic® and MAC status. The regulation of the fan power depends on the number of active makers and the necessary negative pressure. Via network connection to individual SACU tobtronic® and MAC units, Eco Mode is able to optimize energy consumption and show process data at the filter HMI.

Riedel specialists would be pleased to calculate the Return On Investment individually for your factory.