



B 71 / B 75 UNImix

The unique blending technology





RIETER SPUN YARN SYSTEMS

Systems for your success**RIETER – YOUR SYSTEMS SUPPLIER**

Integrated installations from Rieter offer more than just spinning machinery covering the entire process range from fiber to yarn. Perfect coordination of the machines throughout the process chain ensures economical manufacturing of the required yarn quality. In addition to its machine expertise and as a result of numerous engineering innovations, Rieter offers its customers support from the original business idea right through to the achievement of market success through yarn innovations.

RIETER – YOUR PARTNER FOR THE FUTURE

With Rieter as your partner you benefit from the following supplementary services:

- complete mill planning, spinning schedule computation and cost calculation
- automation options tailored exactly to customer needs
- SPIDERweb data acquisition system for on-line monitoring of the entire spinning mill
- process optimization and technical recommendations derived from broad-based technological expertise covering all spinning process stages right through to downstream processing
- worldwide service network and intensive customer training on-site or at the Rieter Training Center
- spare parts deliveries, a wide range of innovative and technically superior solutions in the sphere of conversions

You can have confidence in solutions from Rieter!

B 71 / B 75 UNIMIX

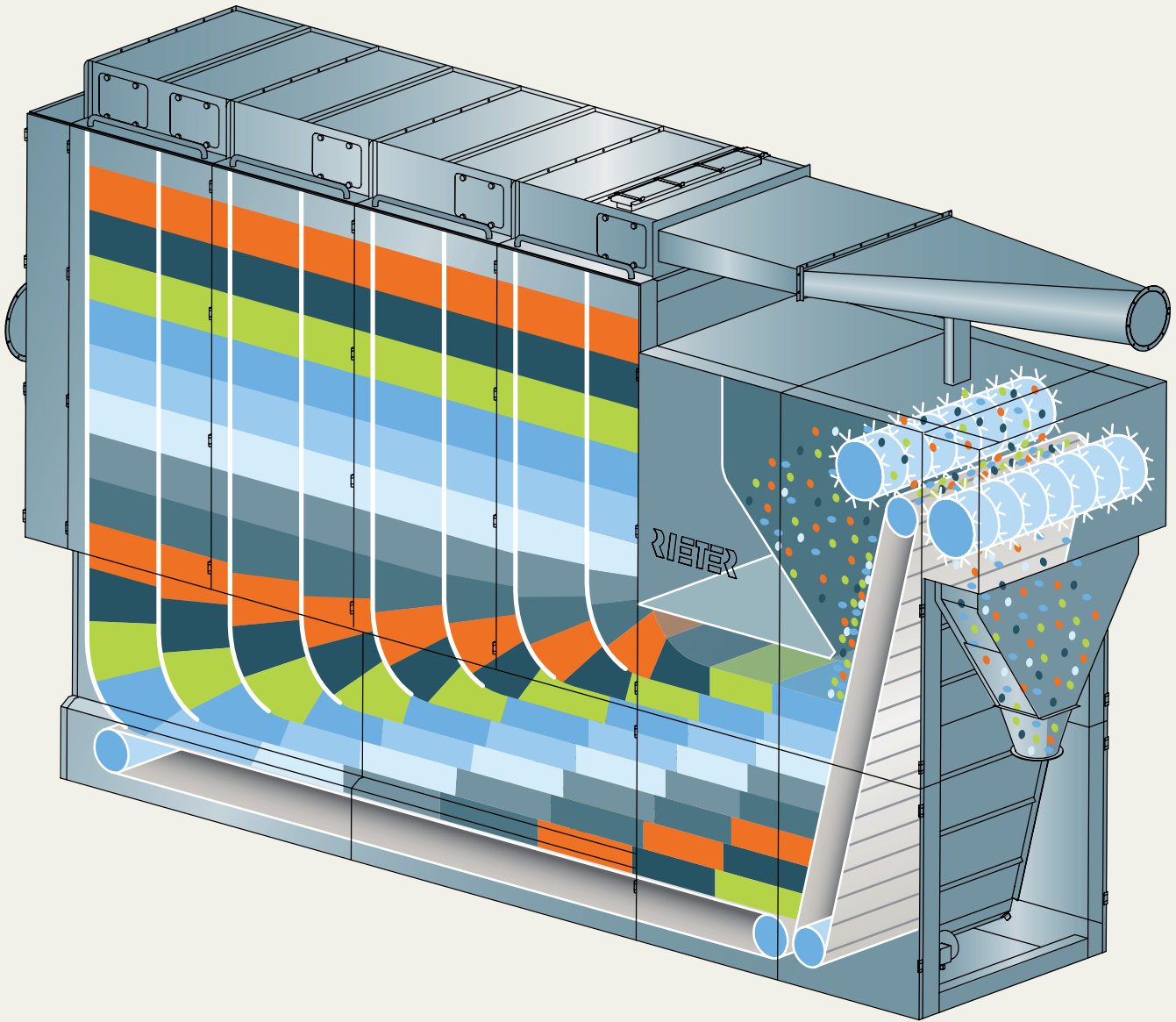
The perfect blending system**UNIMIX FOR OUTSTANDING FIBER BLENDING**

No other blending system achieves such thorough and intensive blending as the UNImix. Today – with increasingly short processes and declining doubling numbers – this is more important than ever.

Distinguishing features of UNImix:

- Unique blending technology with the 3-point blending process. This guarantees the most intimate blending and creates the best preconditions for yarn manufacture and yarn quality.
- The high blending performance of up to 1 200 kg/h results in extremely small space requirements relative to output.
- With two versions, offering production rates of up to 800 kg/h on the B 71 and up to 1 200 kg/h on the B 75, the blowroom can be adjusted to the needs of the spinning mill, i.e. the size of the installation.
- The large storage capacity ensures autonomous operation of subsequent blowroom machinery by guaranteeing continuous supply.
- Tuft size can be optimized at the blending roller in coordination with raw material and application; homogeneous supply is guaranteed.
- Low-maintenance design with few wearing parts results in high machine availability.
- Easy machine setting during production operations.

UNImix thus provides the basis for homogeneous, uniform yarn quality, irrespective of the process and machine sequence.



THE UNIQUE BLENDING METHOD

Efficient blending process

PERFECT BLENDING

Perfect blending starts with small tufts. The A 11 UNIfloc automatic bale opener with patented take-off roller and grid design enables small fiber tufts – so-called microtufts – to be extracted. Any given yarn cross-section should as far as possible contain the same number of fibers from each bale laid down. That is the goal of thorough, homogeneous blending. The result is controlled yarn quality with minimal fluctuations. With its well-conceived, robust design, the UNImix ensures reliable blending over many years.

The unique 3-point blending process of the UNImix featuring eight blending chambers converts cotton or manmade fiber feed material into a homogeneous blend of tufts. Up to 1 200 kg/h can be processed in one B 75 UNImix with a working width of 1 800 mm. In relation to its blending quality and output the UNImix requires comparatively little space.

THE PRINCIPLE OF THE 3-POINT BLENDING PROCESS

The bales fed to the UNIfloc are opened into very fine tufts and distributed at random in thin layers to the 8 chambers. Further thorough, homogeneous blending of the fiber material subsequently takes place at three different points:

1. Diversion of the tuft mass through 90° in the UNImix causes a shift in these layers in terms of space and time. The result is defined, long-term blending.
2. The upright lattice simultaneously extracts tufts from all 8 layers. This gentle opening process inevitably results in a second, random blending of the tufts. The blend is already homogeneous at this stage.
3. The free tufts undergo a third, intensive blending process on the opening roller zone. This additional thorough blending process ensures the constant homogeneity of the fiber blend.

ADJUSTABLE QUALITY

Safeguarding subsequent processes

SECURE OPERATION

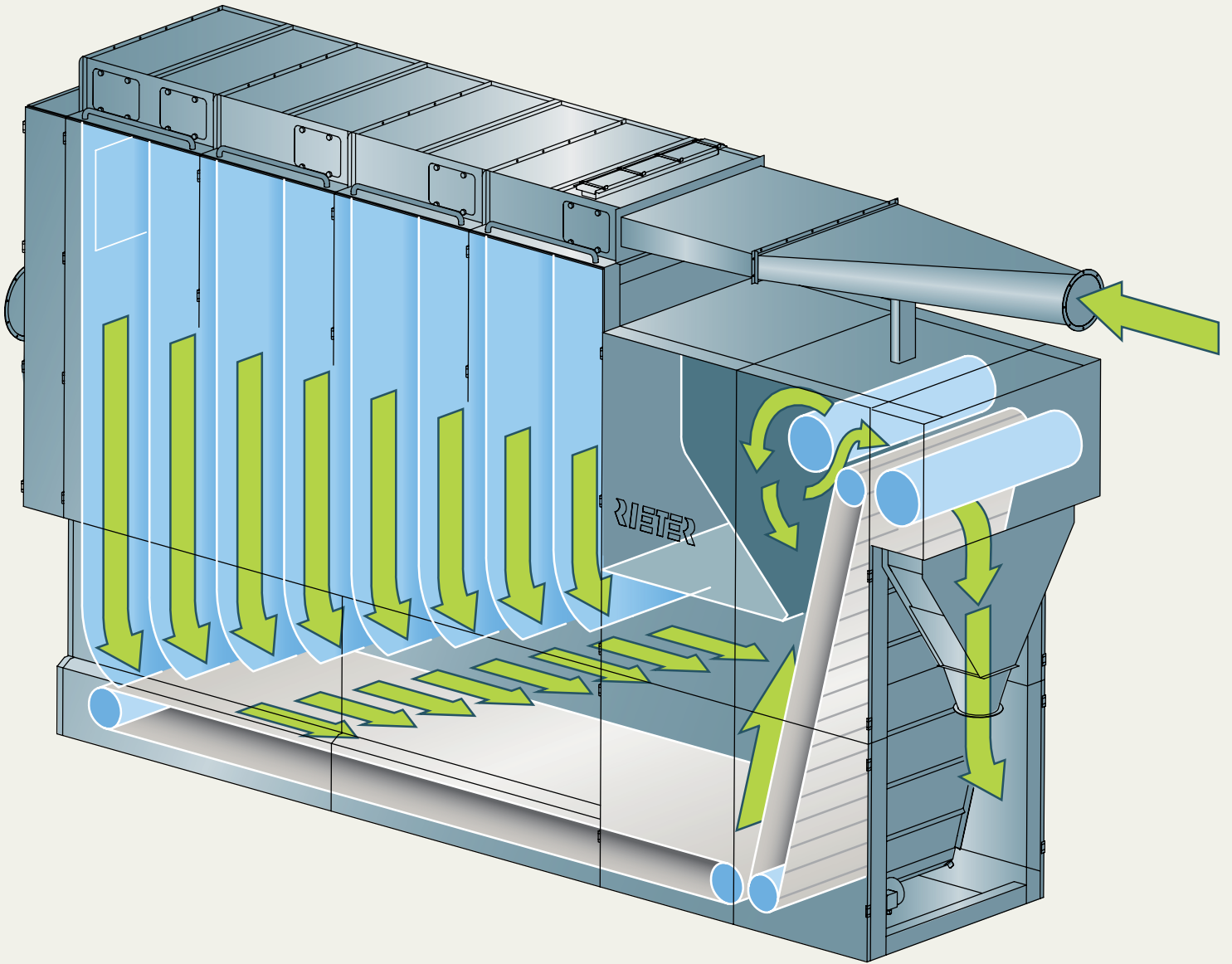
With its large active storage volume and intelligent monitoring devices, the UNImix achieves a high degree of availability and thus ensures excellent operating autonomy of the blowroom as a whole.

HOMOGENEOUS FEEDING ADJUSTABLE AT THE DISPLAY PANEL

Tuft size can be optimized at the blending roller, depending on the raw material used and the intended application. Homogeneous feeding to the subsequent process is guaranteed. The degree of tuft opening is defined via optimization of the rotation speed and adjustment of rotation in the same or opposite directions. This can all be set easily at the display panel.

PROCESS-INTEGRATED DE-DUSTING

The material is fed simultaneously into the eight chambers from the UNIfloc automatic bale opener in the form of microtufts with a large surface area. The dust in the conveying air is systematically separated from the material and passed to the filter unit. This method of integrated de-dusting is highly efficient and ensures gentle treatment of the fibers. De-dusting reduces the number of ends down on the spinning machine.



REPRODUCIBLE SETTINGS

Flexibility at the push of a button**UNIFORM OPERATING PHILOSOPHY**

The machine is easy to operate. All frequently repeated settings are entered by push button at the clearly laid-out graphic control panel. The operation of all Rieter machines conforms to a uniform philosophy. This reduces the time spent training personnel and increases their flexibility.

OPERATION AND MAINTENANCE

The UNImix has no mechanical change points. The gap between the blending cylinder and the upright lattice, as well as the required output, are set electronically. In contrast to mechanical setting methods, this ensures that the values can be entered and changed at the control panel while the machine is running. This results in a high degree of flexibility and very easy adjustment to changes in raw material or production conditions.

The settings are reproducible and thus support modern quality management.

SYSTEM CONTROL

The modern UNIcontrol machine control system simplifies operation, provides an overview of the installation and controls all blowroom machines automatically. The UNImix with its modern machine control is optimally integrated in the UNIcontrol control system.



Setting the gap between the blending roller and the upright lattice via an electrocylinder



Comfortable access to the conveyor belt and upright lattice



Clear layout of the UNIcontrol machine control



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