Senking®
Batch Transfer
Drying Tumbler
DT 60-240

High performance with less energy

JENSEN®

Single dryer with loading belt.

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The batch transfer drying tumblers are designed for the fully automatic shaking as well as pre- and full drying of water extracted linen batches. They can be operated either within a complete washing system along with water extraction presses or centrifugal extractors, in the preset cycle of the continuous batch washer or in systems with washer extractors. It is also possible to operate the dryers as an isolated application without a direct connection to other machines. The dryer design allows a space-saving mirror positioning of two dryers, directly side by side. The dryers can be heated in different ways. Besides the steam heating, also a thermal oil or hot water heating is available.

Particular attention was paid to reach the highest possible productivity at simultaneous lowest media consumption keeping a very low maintenance effort.

The housing was sealed and insulated carefully in order to use the energy for the drying process in an optimal way. Loading, unloading trolleys as an option. The nozzle is height-adjustable and ensures therefore an optimal ergonomic environment (option).

In case of pure transport systems (without dryer loading), the vacuum in the pipe system is created by a powerful fan at a stock box which suctions and buffers the linen in order to returns it via a floor flap to the respective destination (e. g. linen trolley, conveyor, monorail system).

The dryer compound control connetcs all dryers with each other.

Easy operation over Panel-PC with Touchscreen.

handrail at the unloading side of the dryer
- Direct drum gear that is easy to maintain (no greasing or tightening of chains or belts necessary)
- Modulating burners in gas heated dryers for a precise temperature regulation
- Loading door which closes to the top to avoid jammed linen
- Sprinkler device for gas heated dryers
- Automatically tuned guide rollers for the inner drum

Control

Each dryer has its own switch panel with PLC control and own power supply. The operation and programming of the dryer is carried out by a separate compound control that connects all dryers with each other. A panel PC with a colour touch screen operates and visualizes the dryers and their transport conveyors, if existing. The JENSEN service helpdesk can establish a remote maintenance of the dryer control via an integrated Ethernet interface. Dryers of an isolated application are equipped with a smaller graphic operating terminal. Each dryer disposes of 100 free programmable programs.

Mechanical design

- High drum volume with large perforated surface for optimized air flow and high evaporation performance
- Frequency controlled regulation of the drum rotation speed, dependent on the program
- Complete loading wall is pivotable e.g. for easy access to the drum
- Unique sealing concept against jamming of even very gentle linen types; all sealings are easily accessible
- Inner drum with machined path rings for a smooth operation of the drum and a long lifetime of the gear elements
- Drum wheels are resistant to high temperatures and have a huge bearing force
- Stable and well insulated steel plate housing with revision doors which can be wide opened for an easy maintenance
- Good accessibility of all maintenance positions
- With maintenance platform including and revision doors were designed with multiple layers in order to keep the heat losses as low as possible.

Options

- Cool-down via partially opened loading door or fresh air flap
- Air recirculation device for heat recovery (standard for gas heated dryers)
- Infrared control to optimize the drying process
- Temperature control with motor control valve for steam heated dryers (e. g. for very sensitive linen with regard to the temperature
- Automatic lint removal with collection bag (remote for each single dryer or with central suction for several dryers)
- Tilting device for a faster unloading of the linen batch (standard for dryer capacities from DT 120), including exhaust duct separator
- Flexible media connections (steam, water, gas)
- Higher pedestal (standard height: 1025 mm)

Vacuum loading through the unloading door of the dryer with the VacuTrans system

- Teflon coated inner drum and/or lint filter
- Inner drum with removable segment plates
- Loading chute for monorail loading
- Vacuum loading via loading or unloading door
- Vacuum unloading via unloading door e. g. into a stock box
- Heat exchanger RecoCross to save energy

Advantages

- high evaporation performance with very low energy consumption at the same time
- low noise level thanks to components with optimal efficiency and good insulation
- very low maintenance as well as good accessibility to all maintenance places
- compact, space-saving installation
- user-friendly control with highest flexibility for the optimal adjustment of the drying programs to the respective linen type

Vacuum loading and transport system VacuTrans

VacuTrans was developed to transport conditioned linen within the laundry by means of a pipe system in a fast, economic and space-saving way. It is, for example, possible to load dryers via a suction system where normally transport conveyors or a linen trolley tilting device would be necessary. The existing fan of the dryer is used to create vacuum in the pipe system in order to suck the linen directly into the drum of the dryer. The loading can be carried out either via the loading or the unloading door.

But VacuTrans is also used to transport linen from one place in the laundry to different destinations, e.g. terry towels to the folding machines. This is mostly done where the transport via linen trolleys is difficult due to space problems, if there are too long transport ways or if the installation of transport conveyors is difficult.

The pipe system VacuTrans can be fixed at the ceiling in a space-saving way so that no additional floor space is necessary. The loading of the pipe system is carried out by a suction nozzle e.g. in case of a loading from linen

Advantages of VacuTrans

- simple and automatic linen transfer over more than 100 m distance
- fast and efficient transport performance
- space saving
- low maintenance work required
- available as storage and sorting system with several transport destinations

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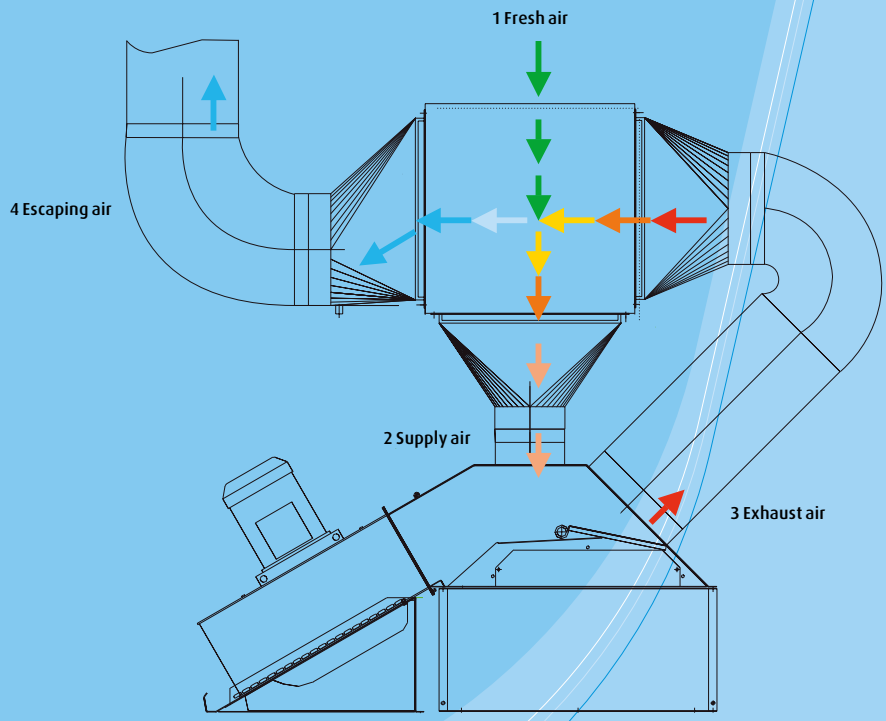

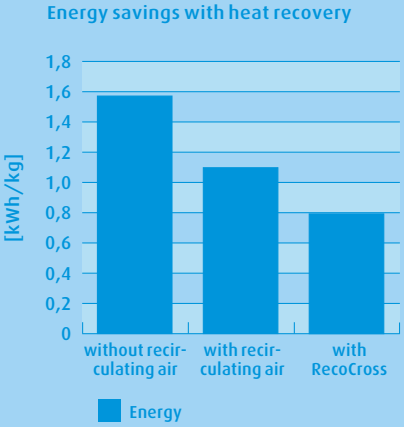

Infrared control

The infrared control (option) can further optimize the drying process in Senking® dryers. This leads, depending on the type of linen, to considerable energy savings and tremendous reductions in the drying times. This results in an increase of the efficiency and productivity during the drying process.

The most important difference from other systems, which are on the temperature or the moisture degree of the exhaust air, is that in this case the true temperature of the linen batch is measured permanently via a sensor at the dryer. This temperature is the starting point for a very reliable regulation process, which doses e. g. the energy supply very precisely or determines certain stages in the drying process (e. g. start / stop of the cool-down process). The respective parameters are programmable for each linen type.

Even variable batch sizes or residual moisture within a linen type are considered from the infrared control and the drying process is adjusted accordingly.

Advantages of the infrared control

- energy saving *
- reduction of drying time *
- linen protection by avoiding unnecessary high temperatures
- consideration of linen batches with variable batch weight or moisture content

* depending on the linen type

Heat exchanger RecoCross

The RecoCross (option) is a very efficient plate heat exchanger that pre-heats the colder fresh air with the residual heat of the dryer's exhaust air. This results in further energy savings that could amount to 25% depending on the drying process. The installation of RecoCross can be carried out e.g. on steelwork directly above the dryer or on the roof of the laundry, possibly with a weather-proof housing.

Spacesaving dryer positioning for high production capacity.

Installation

JENSEN is pleased to assist you in planning your laundry providing excellent consulting, layouts and technical data. Authorized JENSEN distributors or JENSEN engineers should carry out the installation to ensure the correct performance.

Service

In addition JENSEN provides an extraordinary after sales service through a worldwide network of highly qualified Sales and Service Centers and distributors, all with their own maintenance and spare parts services.

Call us...

JENSEN provides a complete range of heavy-duty equipment for the laundry industry, delivered and installed according to your specifications. Please do not hesitate to contact us for further advice and information, or visit **www.jensen-group.com**

Local contact:

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