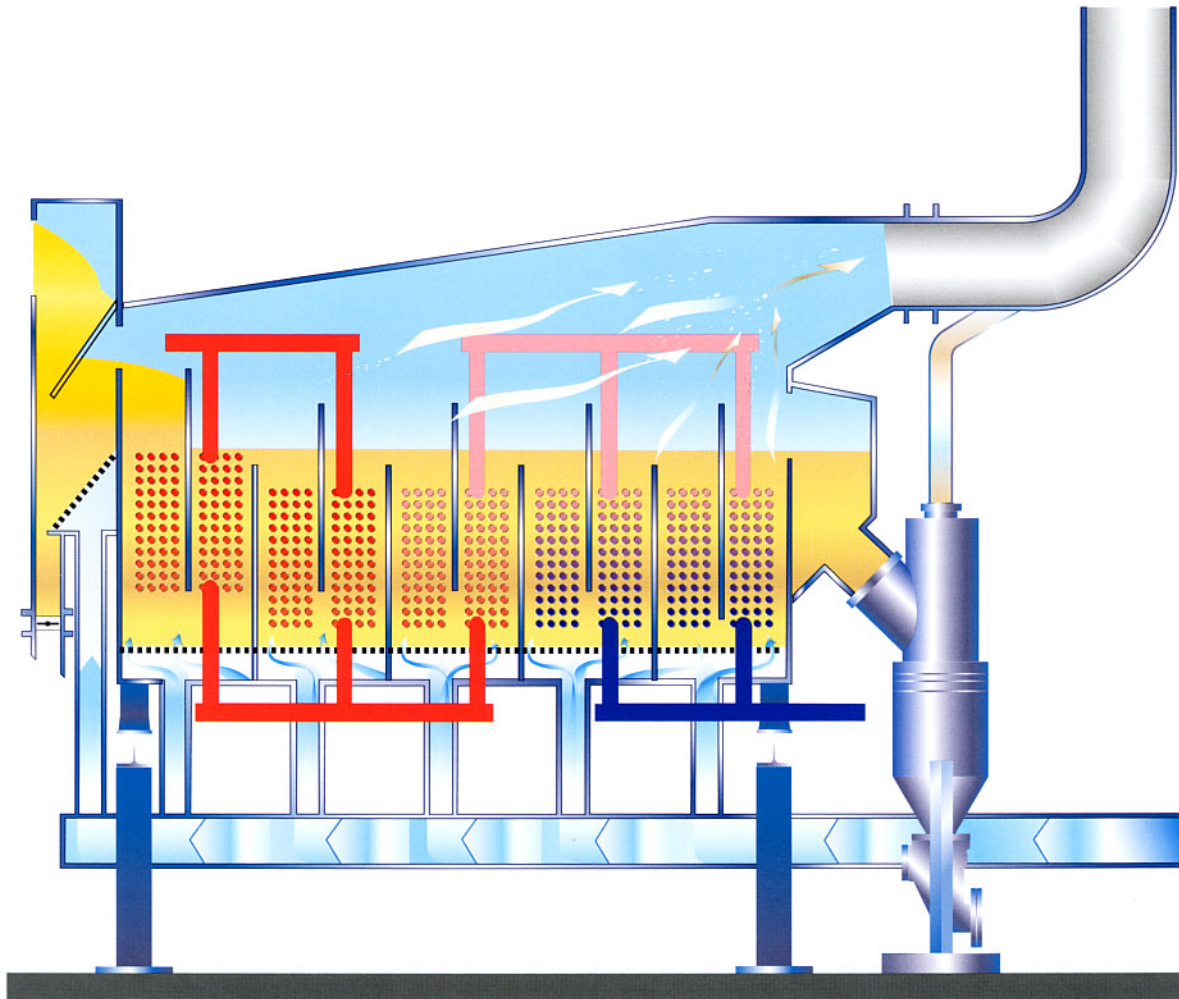


# Fluid-Bed Cooler-Sifter FKS

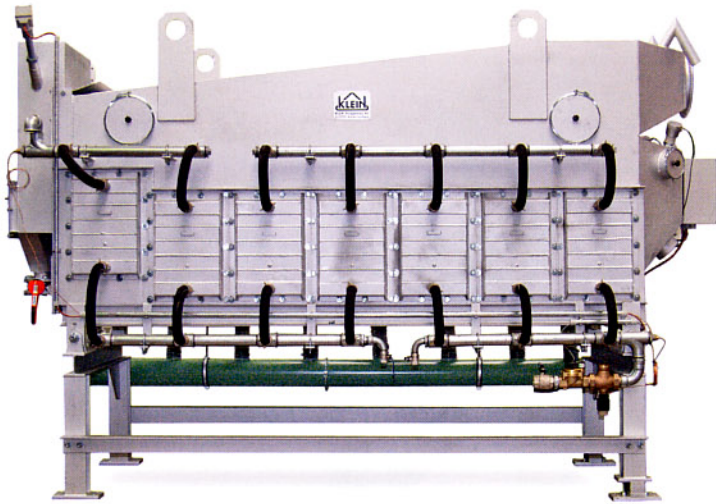


# Fluid-Bed Cooler-Sifter FKS

## The Fluid-Bed Cooler-Sifter FKS

is an installation for the treatment of dry silica sand. The sand is cooled down to processing temperature and thoroughly dedusted to reach an excellent quality level. The FKS is particularly distinguished by:

- simple and reliable operation
- a compact design
- an energy-saving economic concept

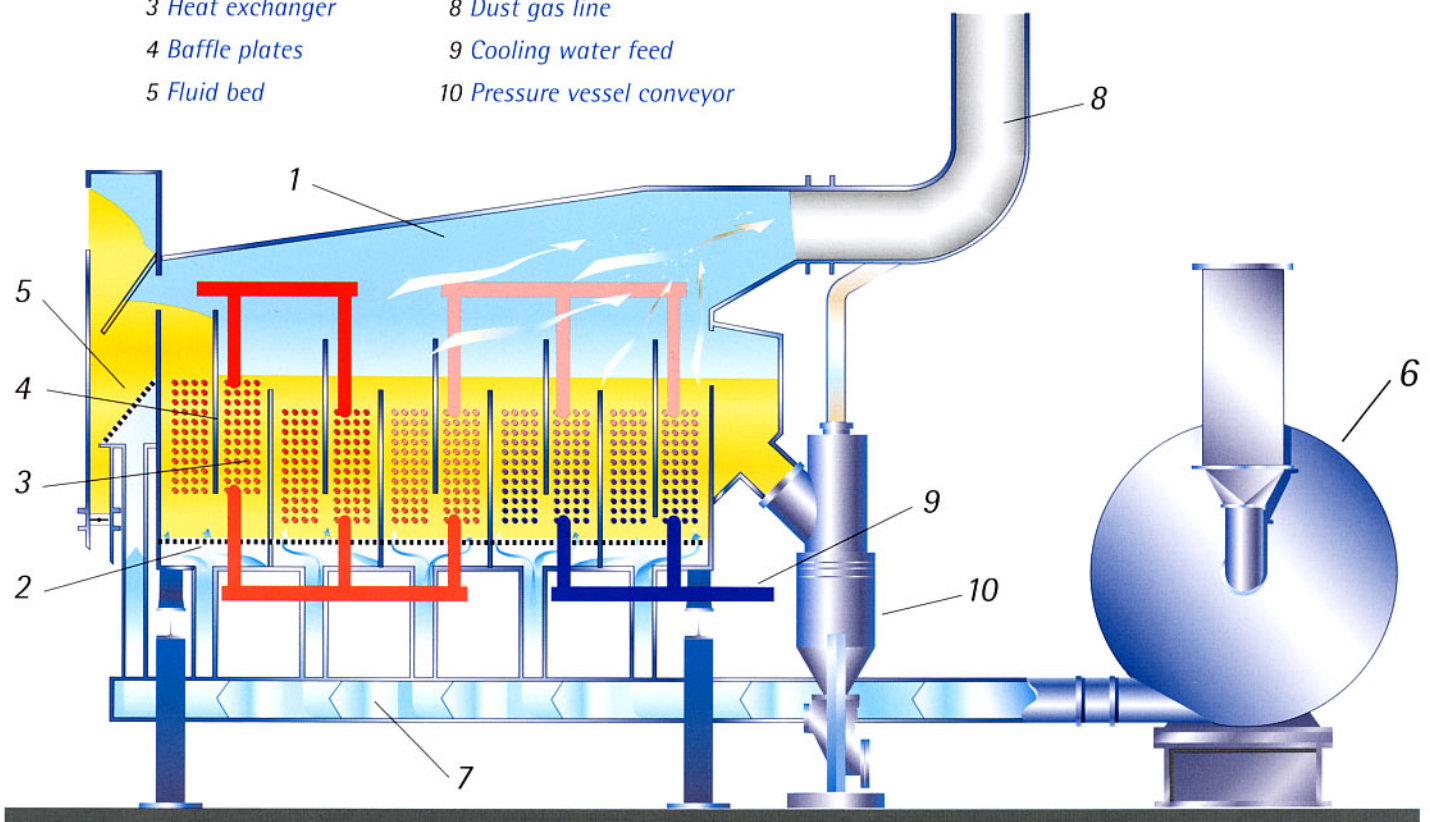


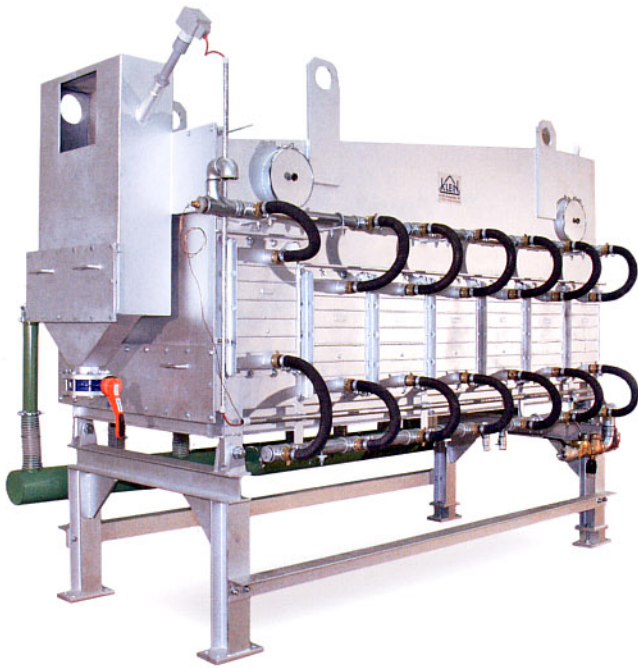
## Functioning

While the hot sand is fed into the FKS through the inlet, air produced by a fan is blown into the housing and evenly distributed through a permeable bottom. This procedure fluidizes the sand, allowing it to flow freely and to behave like a liquid in communicating tubes. The fluid bed is filled to a maximum level before the sand leaves the FKS again at the discharge end. While the sand flows through the individual chambers, it passes along and is cooled by the integrated heat exchangers. At the outlet, a thermostat monitors the sand outlet temperature. In the course of this process, the dust contained in the sand is expelled by the fluidizing air. The dust is then evacuated into the dust separation filter through the dust gas line.

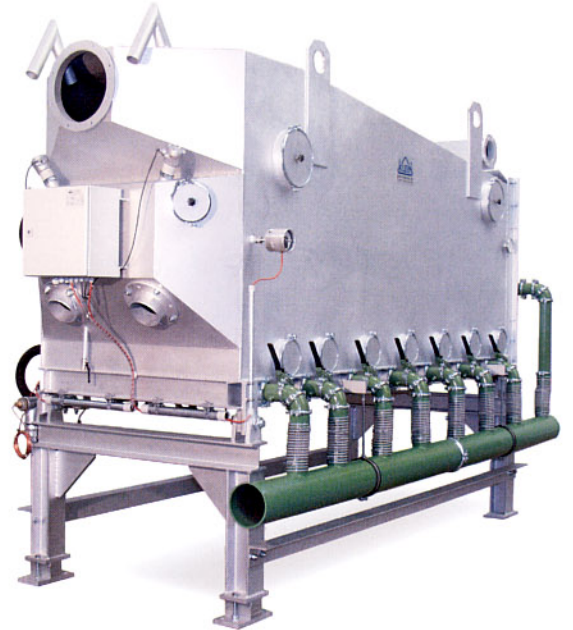
For maintenance and cleaning purposes, the individual heat exchangers can be removed at the side of the FKS like drawers. The interior of the FKS thus becomes accessible.

- |                     |  |
|---------------------|--|
| 1 Housing           | 6 Fan                                  |
| 2 Fluidizing bottom | 7 Clean gas line with adjustable slide |
| 3 Heat exchanger    | 8 Dust gas line                        |
| 4 Baffle plates     | 9 Cooling water feed                   |
| 5 Fluid bed         | 10 Pressure vessel conveyor            |

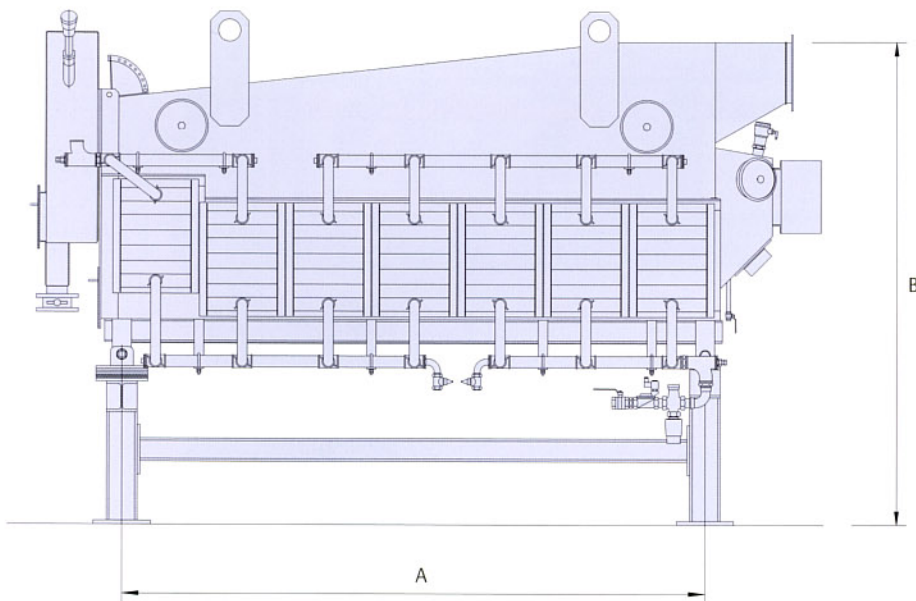




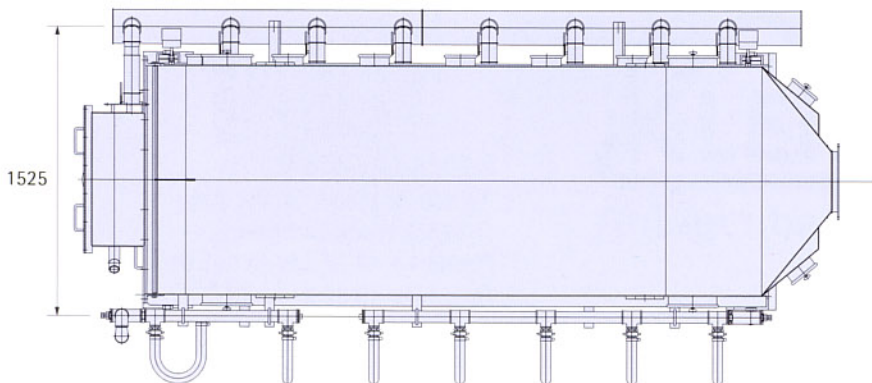
FKS, sand inlet and cooling water distribution system



FKS, sand discharge, clean gas and dust gas connecting nozzle



Type	Cooling surface (m <sup>2</sup> )	A (mm)	B (mm)
FKS 20	20,5	1250	1845
FKS 27	27,4	1700	1845
FKS 34	34,2	2150	1845
FKS 41	41,0	2600	1845
FKS 47	47,9	3050	1845
FKS 54	54,7	3500	2680
FKS 61	61,6	3950	2680
FKS 68	68,4	4400	2680

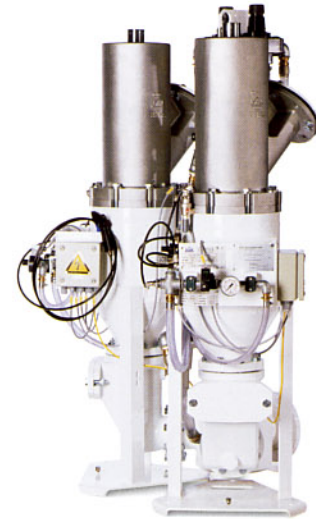


## Our range of products:

### Pneumatic Conveying Technology

Pneumatic conveying systems with pressure vessel conveyors for dry, free-flowing, abrasive and abrasion-sensitive materials.

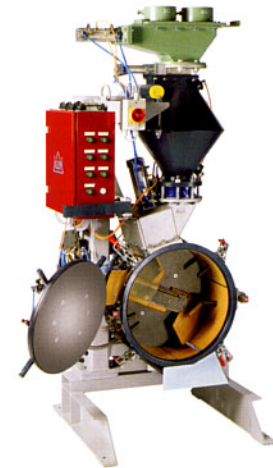
- Thrust conveying process for granular material such as silica sand
- S-Type conveying of dust resembling materials such as bentonite, coal dust and additives
- PLI-process for the low-wear transporting of abrasive materials in a wide range of grain sizes



### Core sand mixing technology

Mixing and distribution systems with

- Core sand mixer STATORMIX  
or
- Vibrating batch mixer SM



### Reclamation Technology

- Used sand reclamation plants
- Regeneration unit ROTAREG to improve the quality of the used sand.

- Engineering, Installation and After-Sales-Service

