

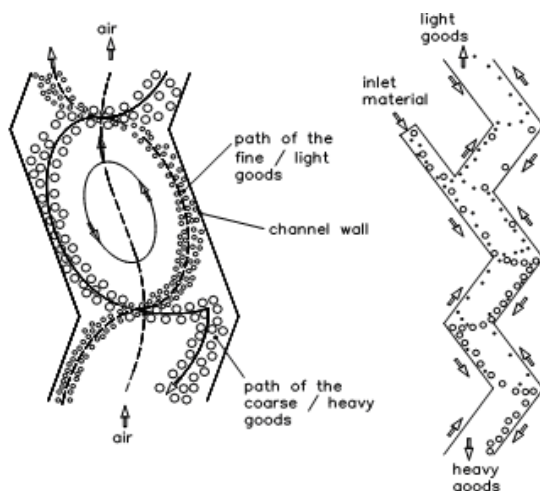
Zig Zag air separator

The feed material is conveyed onto an airproof item to the separator channel. According to the multiple-crossflow-separating process, light material is separated from heavy material. The air flow required for separation is blown through the separation channel from bottom to top. Light material is carried by the air flow. Heavy material is carried by the air flow. Heavy material falls through the air flow and is discharged through the separator base. The light material transported by the air flow to the cyclone gets separated there and is discharged via rotary gate valve. Zig Zag Air Separator Plants are usually operated in recirculation air mode, whereby the cleaned air is returned via blower to the separator base. In case of dusty or moist products the operation of the plant is also possible in partly air circulation or suction mode. The required air flow and pressure is generated by a radial blower.



Application of the Zig Zag air separator:

- + Very precise separation due to by multi-stage-cross-flow separation (8 to 15 separation stages)
- + Based on arranged upon another separation steps and the consequential multiple impacts of the mass flow, the desagglomeration and release of product knots is ensured
- + To reach stable operating conditions, we use a special designed ventilator rotor disk
- + Constant product quality is provided via regulation of air flow and -control (option)
- + Due to additional cleaning valves in the separator channel the plant can be cleaned easily
- + In the air recirculation mode exists no emission source
- + High availability due to robust construction and no rotating parts in the separator
- + Sturdy design





ZZ-Separator SepK12/120-2
Processing of dried vegetables.
Removal of foreign substances
such as hair, dust, paper, fibres



ZZ-Test Separator SepK14/140-3
Test separator in our technical
centre



Partial view of ZZ-Separator
SepK12/250-4
Separation of PUR of crushed
refrigerators



Hybrid-Separator SepHY 10/120-2
Separation of textile from rubber
powder

Technical data (approx. figures, see also 3D drawing):

Typ	Air volume [m ³ /h]	Mass flow [t/h]	Power installed [kW]
LZS 15 / 80 x 1200	300 - 600	0,1 - 0,2	~ 3
LZS 12 / 120 x 360	750 - 1.500	0,8 - 1,5	~ 4
LZS 12 / 180 x 540	1.750 - 3.500	1,8 - 3,5	~ 5,5
LZS 12 / 180 x 900	2.900 - 5.800	2,9 - 5,8	~ 7,5
LZS 9 / 250 x 1200	5.400 - 10.800	5,4 - 11	~ 15
LZS 9 / 250 x 1500	6.750 - 13.500	6,8 - 14	~ 20
LZS 6 / 250 x 1500	6.750 - 13.500	6,8 - 14	~ 20
LZS 6 / 250 x 2000	9.000 - 18.000	9 - 18	~ 30