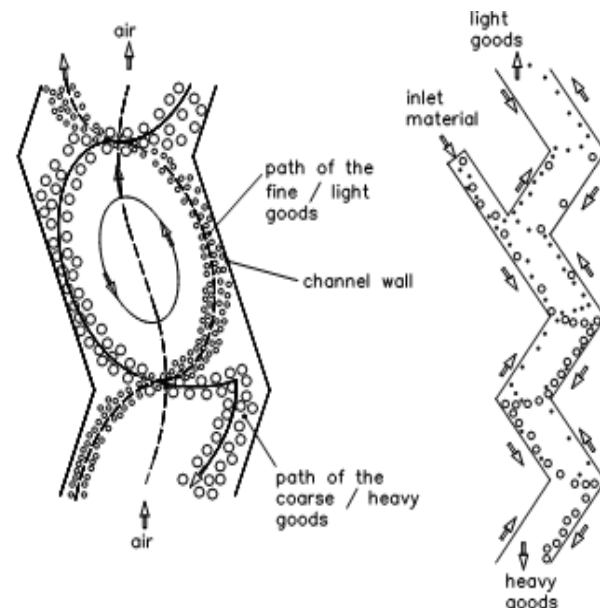


ZIG ZAG AIR SEPARATOR.

3X ZIG ZAG AIR SEPARATOR SEPK12/120-3
 SÉPARATION OF SHREDDER LIGHT MATERIALS



FUNCTION



FUNCTION:

The material is fed in via an airtight inlet, the separator channel.

Here the light materials are isolated from the heavy ones using the multi cross stream separation principle. The air flow required for separation is blown through the separation channel from bottom to top. The light particles are carried upwards by the air current. The heavy particles fall through the air stream and are discharged through the separator base. The fine particles are carried by the air flow through a cyclone where they are collected and discharged through another rotary gate valve.

Zig Zag air separators are usually operated in recirculation air mode, whereby the cleaned air is returned via a blower in the separator base. In the case of a high dust or moisture products, a proportion of fresh air can be employed.

The required air flow and pressure is generated by a radial blower.

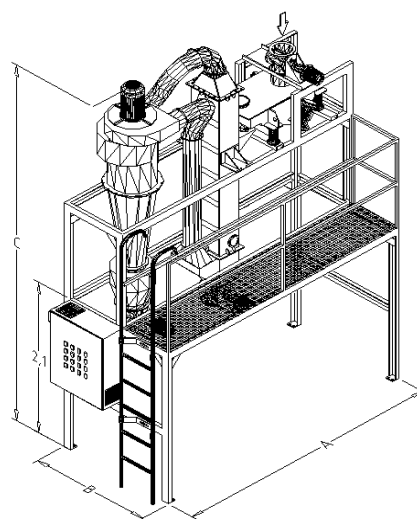
APPLICATION:

- Thorough separation by multi-stage-cross flow separation system (8 to 15 steps)
- The upright, stacked construction of the separation steps and the resulting multiple Prallbewegungen of the product flow ensures the desagglomeration and loosening of product knots.
- For stable operating conditions, we fit a specially designed propeller (blades designed for a steep characteristic curve)
- Constant product quality through air flow rate controller and monitoring (option)
- Cleaning hatches allow quick and easy cleaning for the plant including the separator chamber
- Zero emissions under recirculation air operation
- High availability due to robust construction and no rotating parts in the separator
- Compact in design

TECHNICAL DATA (APPROXIMATE FIGURES, SEE ALSO 3D DESIGN)

Type 7*		A x B x C [m] ^{1*}	Air volume [m ³ /h] ^{2*}	Mass flow [t/h] ^{3*}	Power installed [kW]
SepK 12-120/2	(4*)	1,7 x 1,2 x 3,9	600 - 1200	0,25 - 1,2	bis 2,2
SepK 12-140/3	(5*)	3,5 x 1,6 x 4,4	1250 - 2500	0,5 - 2,5	2,2 - 4,0
SepK 12-180/3	(5*)	3,5 x 2,0 x 5,4	2100 - 4200	0,8 - 4,2	4,0 - 7,5
SepK 12-250/3	(6*)	3,7 x 2,4 x 7,2	4050 - 8100	1,5 - 8,1	7,5 - 15
SepK 12-250/4	(6*)	4,0 x 2,7 x 7,4	5400 - 10800	2,1 - 10,8	15 - 30

- (1*) Dimensions separator installation (height under the air separator ca. 0,8 m)
- (2*) The air volume, listed in the figure, equates a separator cruise of 6 to 12 m/s. The lowest separator cruise is 2m/s the highest at approx. 20 m/s.
- (3*) Mass flow depends on product
- (4*) Without product dispersal feeder
- (5*) Similar construction as shown in 3D design
- (6*) Product dispersal feeder fitted between the separator and the cyclone
- (7*) Special constructions possible



3D 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.



PARTIEL VIEW OF A
ZZ- SEPK12/250-4

Separation of PUR of crushed refrigerators



HYBRID SEPARATOR
SEPHY10/120-2

Separation of textile from rubber powder