



MAIN CHARACTERISTICS AND ADVANTAGES

- ✓ Versatile: to accurately remove lighter impurities and foreign particles like loose skins, leaves, dust, cigarette butts, fakes...
- ✓ Can be used also to separate the product from heavier impurities like stones, dirt blocks, pieces of metal...
- ✓ Continuous process
- ✓ Compact, solid and reliable
- ✓ High efficiency and low running costs
- ✓ User friendly
- ✓ Easy to regulate
- ✓ High process capacity



TECHNICAL FEATURES

- ✓ Construction in painted carbon steel OR in AISI 304 s.s.
- ✓ Separation of lighter foreign particles smaller working upon difference of density in air flow
- ✓ Easy and accurate set-up
- ✓ Easy access for inspection and cleaning purposes
- ✓ Suitable for Brovind <CLG>, <CLS>, <SRT>, <GMR>, <GMS>, <IB "nibs">, <IB "cleaning">, <PSM> lines

DESCRIPTION AND WORKING

The <SPL> is an air separator based on difference of density in air flow. It is extremely versatile and is commonly used as second and/or third stage of Brovind<CLG> in-shell product cleaning lines, as second stage in Brovind <CLS> shelled product cleaning lines, in Brovind <SRT> sorting lines, in Brovind <GMR> and/or Brovind <GMS> product chopping lines, in Brovind <IB "nibs"> and <IB "cleaning"> cocoa nibs processing lines, in Brovind <PSM> almonds peeling lines or even in stand alone applications, as unique separator, to reject lighter impurities. When used as third stage of Brovind <CLG> in-shell product cleaning lines, to discard heavier impurities. In many of its applications the Brovind <SPL> pneumatic separator is placed immediately downstream a dimensional classifier such as a Brovind <SRL>, <VSM>, or <VCI> model. A controlled air flow surrounds the product and carries away lighter impurities, such as: loose skins, leaves, cigarette butts, dust, fakes, etc. By opportunely increasing the air flow, the <SPL> can also be used to separate the product from heavier impurities, like stones, dirt blocks, pieces of metal, debris. In this second kind of application, the product is carried away by the air flow, while the scraps are discarded at the outlet of the <SPL>.

The <SPL> consists of a product receiving chute, placed along a vertical channel where the separation of the foreign particles by means of air takes place. The product falls into the vertical channel through the chute. A controlled air flow, generated from a fan placed at the bottom of the channel, surrounds the product and lifts the lighter particles, carrying them upwards. The heavier particles, slowed down by the air flow, fall gently through the outlet, positioned in the lower section of the channel.

The settings of the air flow rate, which can be adjusted acting on the suction side of the fan, allow to adapt the <SPL> to different products and process conditions.

At the top of the vertical channel, a sudden enlargement of the crossing section reduces the speed of the air, and a mechanical filter traps the particles carried by the air flow. The solids are then collected and discharged, into a bag or into a bin, through an apposite chute, while the air is re-introduced into the environment.

Upon request, the <SPL> is coupled with a cyclone mod. Brovind <CID-600>, or to a proper bag filter mod. Brovind <CSACK> to separate the foreign particles from the air flow and to collect them. In case of centralized filtering of the air flow coming from many <SPL> (or other devices), a bag filter belonging to Brovind <CSA> family, or a larger model of <CID> cyclone can be used instead of several <CID-600> or several <CSACK>.

PERFECT FOR

- ✓ Dried nuts and seeds (Hazelnuts, Almonds, Peanuts, Pistachios, Cashew Nuts, ..., Pumpkin seeds, Sunflower seeds, ...) and Cocoa nibs
- Either whole or diced**
- ✓ Cereals
- ✓ Granular materials in general



TECHNICAL DATA	SPL/1	SPL/2	SPL/4
PROCESS CAPACITY	100kg/h	200kg/h	400kg/h
POWER SUPPLY	3ph – 50Hz – 400V		
TOTAL INSTALLED ELECTRICAL POWER	0,25kW	0,55kW	1,5kW
DIMENSIONS (L x W x H)	600 x 800 x 2.200	600 x 1.000 x 2.200	800 x 1.000 x 2.200

Production data may vary upon product and process conditions.

Technical data may be subject to change without notice. Brovind reserves the right to apply any modification to improve aesthetics, efficiency and safety.

