

Airevac System for Saxon sealers

Description:

The Airevac system has been developed to remove surplus air from the plastic bag before the bag is sealed using a Saxon Hot Air, Saxon Band or Radiant sealer.

Advantages:

- No balloon effect of the bag, more stability of the stack when palletising
- Decrease of the added stress placed on the seal of the bag from the built-up air pressure, preventing the possibility of the bags at the bottom of the stack from bursting.
- Help to remove trapped air in the product, or free air between the product and the seal line to help to increase the product life.
- Reduction of the micro organisms that can attack the product, thus lengthen the life expectancy of the product.

Characteristics:

- Product type:
 - Solid type and granule products with an average particle size greater than 0,5 mm (ex: rice, nuts, coffee beans, plastic granules, sand ...)
 - Products with dust particles with an average particle size less than 0,5 mme. However, a filter system will be required to prevent the product being released into the atmosphere and damaging the vacuum generator. Powders will be evaluated individually for each application.
- Can be fitted to the
 - SH1000/SR1000/ SB2000
- Bag type:
 - The Airevac works best with open mouth pillow type bags
 - Gusseted bags can be handled. However, the gusset may compromise the effect of air removal, it is then recommended that all bags be single ply.
- Bag width:
 - Minimum bag width for pillow type bags – 100 mm
 - Minimum bag width for gusseted bags – 200 mm with at least 100 mm between the gussets
 - Maximum bag width:
 - 400 mm for 1000 size sealer SH1000 or SR1000 with extended bottom plates
 - 670 mm for 2000 size frame with either a SH1000/ SR1000/SB2000 heater section and pressure wheels
 - 900 mm for 2000 size frame with extended bottom plates either a SH1000/ SR1000/SB2000 heater section and pressure wheels
- Bag thickness: 100 to 200 microns

FISCHBEIN S.A.

Paepsem Business Park, Boulevard Paepsem 8, B-1070 Brussels, Belgium

Tél : +32-2-555.11.70 • Fax : +32-2-520.33.90 • E-Mail : sales@fischbein.be

Website : www.fischbein.com • TVA/BTW : BE 401.889.806 • RCB/HCB : 264.230

KBC Bank : IBAN: BE04 4324 0126 8131 • ING Bank : IBAN: BE39 3100 8258 8819

The principle of the Airevac:

The conveyor brings the bag to the infeed of the sealer, where a sensor will see the bag and halt its process until called for by the Air Evacuation section of the sealer.

Once the bag has stopped in the required position, the Vacuum cups located either side of the bag will deploy and take hold of the bag and then retract and open the mouth of the bag. The lance will then be inserted in the bag.

If the vacuum cups fail to open the bag on the first attempt, they will re-try up to three times in total. If the third attempt fails, the cycle is abandoned! The sealer and the conveyor will then eject the bag without the lance descending.

After the system detects that the bag is correctly opened, the evacuation lance descends into the bag. Another design improvement is that the Airevac system now has a multi positional lance unit which is controlled via an encoder. This encoder allows the lance to be inserted into the bag to varying depths dependent upon the amount and type of product in the bag. The depth of the lance can be accurately positioned within 1 mm.



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