AirWash
Data sheet

The Kongskilde AirWash system is a combined conveying and cleaning or dedusting of plastic regrind for effective separation or recycling.

The Kongskilde AirWash System features a robust blower, expertly engineered to transport plastic regrind materials from sources such as granulators or debagging stations to the Air Wash separation cyclone. This system efficiently separates dust and fines from the plastic regrind through a two-step process. Initially, adjustable cleaning occurs within the separation cyclone, utilizing vortex efficiency to purify the material. Subsequently, a cascade section further cleans the material as it descends by gravity, passing through adjustable vacuum slots.

Following the cleaning process, the material is ready for direct recycling or reuse within the production line. Dust and fines separated from the regrind can be directed to an optional filter bag manifold with collection drums, or for continuous operation, Kongskilde offers an independent dust cyclone with an airlock in conjunction with the filter bag manifold.

Key Benefits of the AirWash System:

- ✓ Dust removal from regrind materials
- ✓ Removal of "angel hair" from regrind and pellets
- ✓ Inline recycling of regrind
- ✓ Enhanced quality of regrind
- ✓ Streamlined in-house recycling processes

The Kongskilde AirWash system is composed of modular components, facilitating easy and flexible installation within existing production facilities.

Examples of materials suitable for handling in an AirWash system are regrind and pellets of:

- ✓ PP
- ✓ PET
- ✓ HDPE
- ✓ LDPE
- ✓ LLDPE
- ✓ Nylon
- ✓ ABS
- ✓ Acrylics
- ✓ Polystyrene
- ✓ Rubber
- ✓ And more

Cascade system

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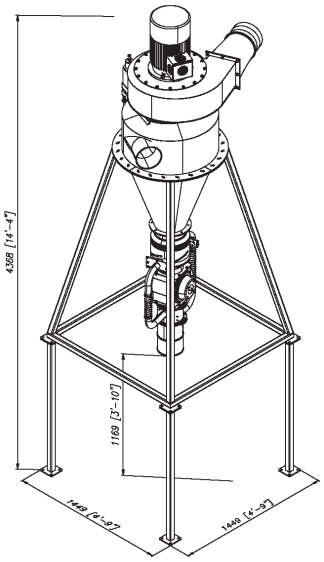
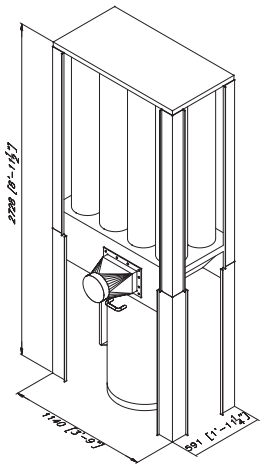
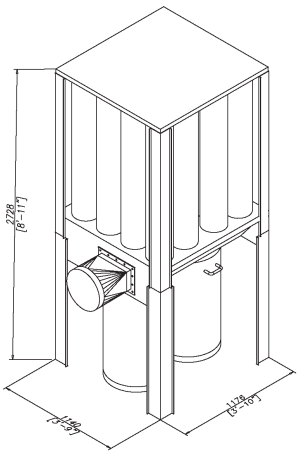


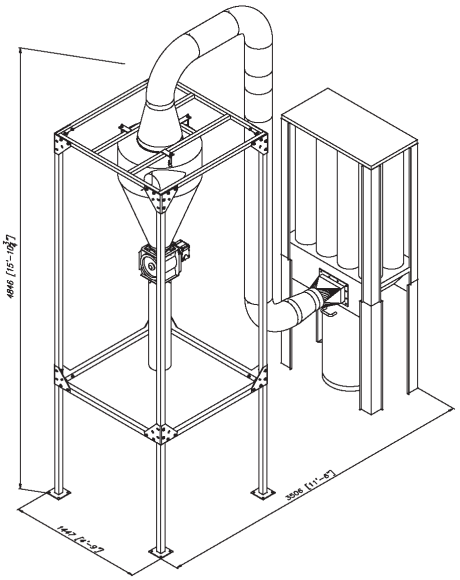
Frame for AW 50E and AW 100E and AW 150E.



K-200 filter with 8 filters and 1 discharge drum for the AW 50E.



K-500 filter with 16 filters and 2 discharge drums for the AW 100E and AW 150E.



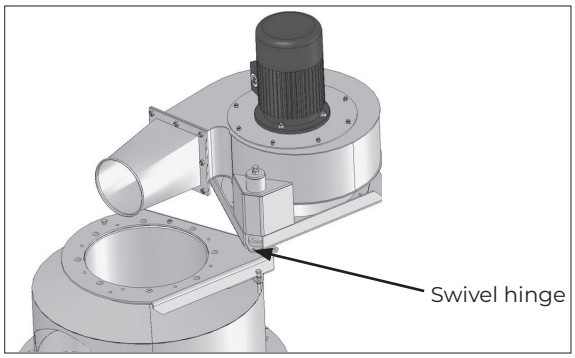
Dust cyclone with K-200 filter for the AW 50 E.

Technical Data

Type	AirWash AW 15E	AirWash AW 50E	AirWash AW 100E	AirWash AW 150E
Blower, kW (hp)	1.0 (1.5)	4 (5)	7.5 (10)	11 (15)
Rotary valve, kW (hp)	0.33 (0.5)	0.55 (0.75)	0.55 (0.75)	0.55 (0.75)
Max. conveying output (Approx. Capacity subject of test), kg/h (lb/h)	75-100 (165-220)	225 - 450 (496-992)	450 - 900 (992-1984)	900-1300 (1984-2866)
Height, with hinge for blower, mm (in)	-	4200 (13' 9")	4315 (14' 2")	4400 (14' 5")
Height, without hinge for blower, mm (in)	3108 (10' 2")	4150 (13' 7")	4265 (14')	4350 (14' 3")
Frame extensions (antistatic equipment), mm (in)	-	300 (1')	300 (1')	300 (1')

Accessories

Swivel hinge for the blower:
The standard AirWash System can be fitted with a swivel hinge for the blower that enables easy inspection, cleaning or maintenance (not for Air Wash AW 15E).



Antistatic equipment:
For static materials it is highly recommended to add an antistatic eliminator between the material outlet of the rotary valve and the cascade section. When the static material passes the antistatic eliminator, ionized air removes the static charges in the material (not for Air Wash AW 15E).

Test:
Kongskilde offers to run test materials through one of Kongskilde's test facilities located in Denmark or Illinois, USA.

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