Albia 1600™

The Albia 1600 Coarse Cleaner for cleaning of secondary or virgin fiber is a robust, hardwearing cleaner offering good runnability at high consistency levels of fiber. Designed to handle higher levels of contaminants and filler, it is ideal for cleaning low-grade wastepaper contaminant loaded furnishes, protection for down-stream equipment and certain paper machine approach flow applications.

Key benefits

- **Low energy consumption**
- **High cleaning efficiency**
- **Wear resistant**
- **Good runnability**
- **Operation flexibility**

Energy efficient patented turbo head and spiral cone

The Albia 1600 cleaners are based on the patented Turbo Head accept flow design and the "negative angle" spiral cone. The Albia Turbo Head converts the centrifugal force in the accept outlet into a straight pressurised flow. The turbo head design, in combination with the spiral cone and low pressure drop, offers substantially low inlet pressure requirements, thus low energy consumption. The low reject rate requirements offer small fiber recovery stages and contribute to the low energy consumption.

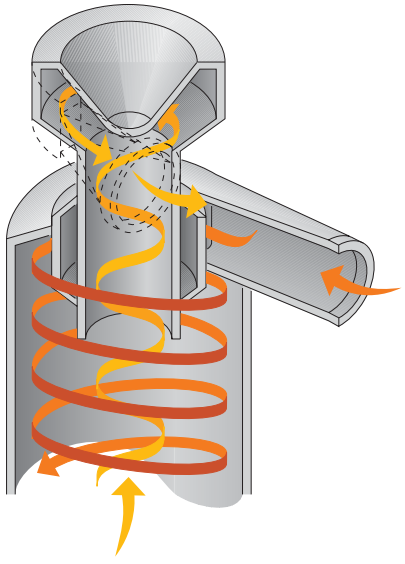

Fig. 1 Internal flow of the Albia Turbo Head

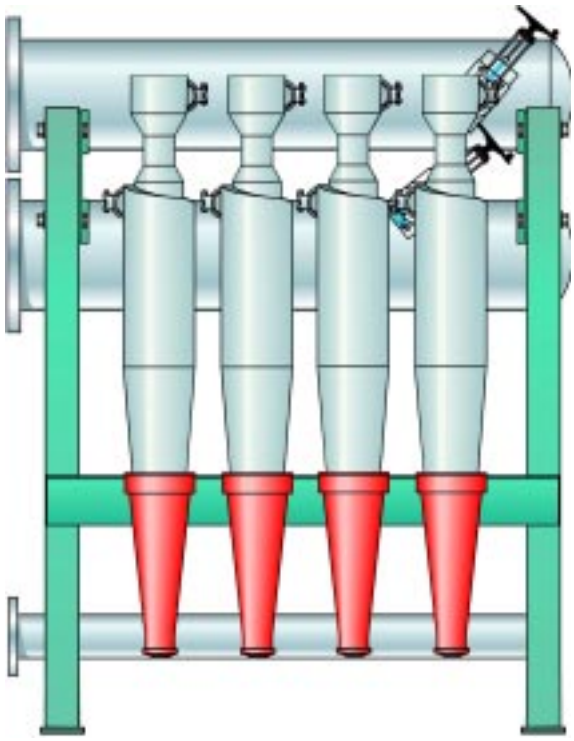

Fig. 2 Albia 1600 bank assembly

Spiral cone boosts efficiency and reduces maintenance costs

The spiral cone creates a positive downward movement of the heavy reject flow. The spiral cone helps to eliminate the turbulence and vertical cross flows. This provides good runnability and efficiency at high consistency levels.

Wear resistant

All Albia types of centrifugal cleaners feature an acid proof stainless steel design and a ceramic cone for increased life. The Albia 1600 ceramic cone option provides for a robust, hard wearing cleaner. It is specially suitable when required for non-plastic applications. The spiral cone with negative angle also eliminates problems with abrasive wear, and since there are no plugging tendencies, spare part consumption is kept to a minimum.

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Unmatched runnability

The Albia 1600 features a patented negative angle spiral cone that forces the rejects downwards in a continuous spiral along the periphery of the cone wall. This eliminates the abrasive wear problems and gives the cleaner an unmatched runnability, while obtaining exceptional debris removal capabilities.

Fig. 3 Throughcut of the Albia spiral cone

Albia 1600 expands with your operation

The Albia 1600 can be supplied with individual cut-off valves, with manual or remote control, to isolate each cleaner from the main headers. This provides a wide range of plant flexibility and is a practical solution during big variations in flow, i.e. in an approach flow position. The cleaners are available in single row or double row bank system. A number of assembly alternatives are available.

Dimensions

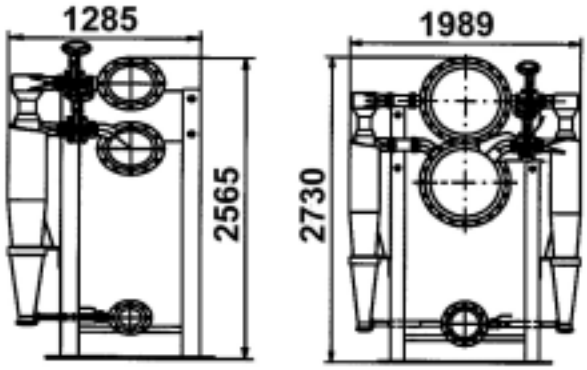

Fig. 4 A 1-row bank (left), and a 2-row bank (right).

Basic flows and pressure drops

Bank type	Q (lpm)	ΔP (kPa)	Q (gpm)	ΔP (psi)
1	3200-22400	100	845-5917	14.5
2	12800-54400	100	3381-14371	14.5

Material

Cleaner – stainless steel body, high grade plastic or ceramic cones.
Headers and structures – stainless steel.

Available auxiliary equipment

Instrumentation
Valves
Foundation bolts

Patents

The design is protected by patents and patents pending.

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