FCB Preheater

High efficiency preheater cyclones

- Low Pressure Drop
- Slope at the inlet to avoid build-up
- Large cone outlet for smooth material flow
- Upper cyclones designed for a high efficiency
- Diameter up to 9.0m
The latest innovations in preheater cyclones design

LATEST DEVELOPMENT
— Modern design for an improved efficiency:
  • slope at the inlet to avoid build-ups
  • large cone outlets for smooth materials flow
— Low pressure drop cyclones allow to lower the total preheater pressure drop
— Top cyclones can reach 97% settling efficiency
— Lower cyclones are equipped with segmented dip tubes better resisting to chemical wear at high temperatures
— Efficient splash boxes and tilt valves participate to the stable behavior of FCB Preheater

Lessthan
50 g/Nm³ dust in preheater fumes

Lessthan
-450 daPa pressure drop over a 5-stage preheater

Overall design to achieve a very low pressure drop
— High heat transfer efficiency
— Very stable operation
— Fan power reduction
— Minimized heat and energy consumptions
— Reduction of dust load to filter