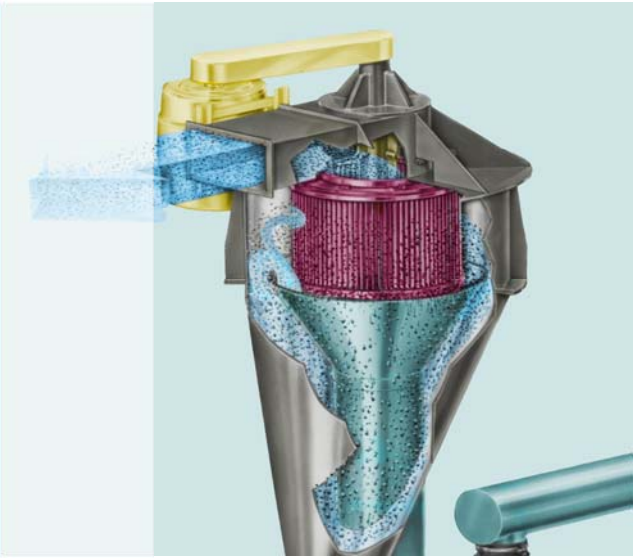
Raymond® Jet-Stream™ Classifier
For ultra-fine powder classification

- **Improved uniformity and fineness control**
- **Optimum recovery of product**
- **Less thermal degradation of product**
- **Greatly improves efficiency when used in closed circuit with pulverizer**



The Raymond® Jet-Stream Classifier is designed to meet exacting product specification in applications requiring the production of ultra-fine powders (10 microns APS and lower)... coatings, extenders, fillers, pigments, ceramics and metallic powders, cosmetics and chemicals.

Benefits
Improved uniformity and fineness control – the jet-stream classifier design permits high turbine periphery speeds at reduced airflows, and allows for maximum control of both particle top size and distribution by varying these turbine speeds and airflows. Excellent control of average particle size, to as low as one micron, can be achieved.

Optimum recovery of product – conventional fine classifying systems recirculate air, causing a greater amount of fine material to be entrained in the tailings, while the jet-stream classifier uses a single pass airflow design

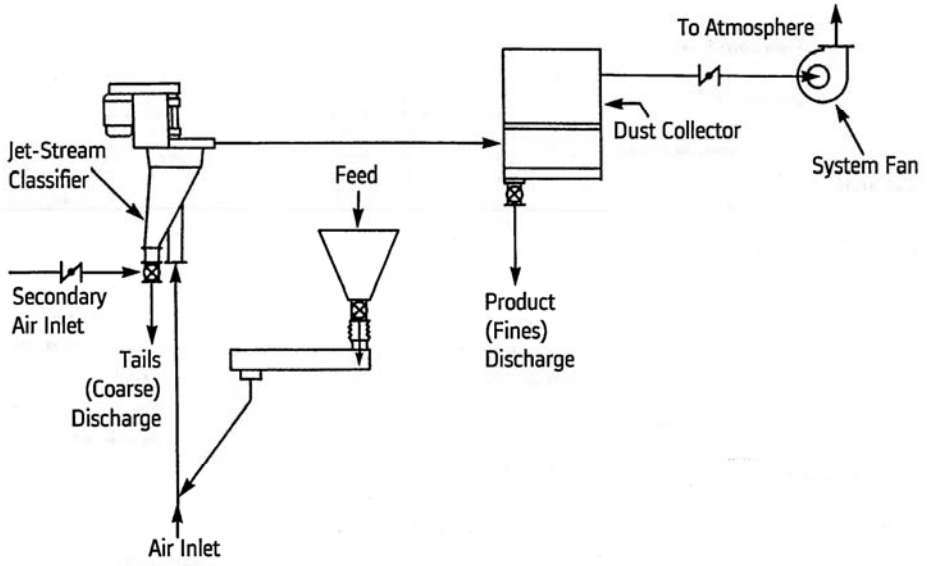
Less thermal degradation of product – once-through airflow provides for a cooler product because recirculated heat does not build up within the classifying system.

System design features
Improved feed introduction – material is introducted into the airstream before it enters the classifier. This assures uniform dispersion of material in the air stream as it flows into the classifier and results in improved efficiency.

Secondary air recovery – some irregulary shaped particles or sticky materials ten to agglomerate within the classifier tailings. The jet-stream classifier introduces secondary air to the tailing cone, which helps recover those particles by cleaning the fine material from the tailings.

Flexible operation – easily varied rotor speed and airflow results in immedite change and stabilzation of the system. Systems with a high pressure drop or recirculation required a much longer period of time to reach equilibrium.

The Raymond® Jet-Stream™ Classifier is extremely well suited for use in closed circuit with a pulverizer. When used in this manner, it greatly improves the efficiency of the pulverizing operation, thereby lowering overall system costs.



Raymond® Jet-Stream™ Classifier Specifications

Model		JS-4.5	JS-25	JS-35	JS-80	JS-180
Airflow	ft_3/m m^3/hr	450 800	2500 4200	3500 6000	8000 14000	18000 30000
Nominal Feed Rate	lb/hr kg/hr	200 90	1100 500	1600 750	3700 1700	8300 3800
Classifier Power Req.	hp kW	3 2	20 15	30 22	75 55	150 110
Fan Power Req.	hp kW	3 2	30 22	40 30	100 75	200 116

Nominal feed rate is based on 10 micron top particle, 2 micron average particle size limestone product. Feed material is 95% minus 44 micron, 60% minus 10 micron Raymond® roller mill product.

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