

Raymond® High Performance Jet-Stream™ Classifier

Classify Ultra-Fine Powders With Greater Uniformity

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

Improved uniformity and fineness control of product.

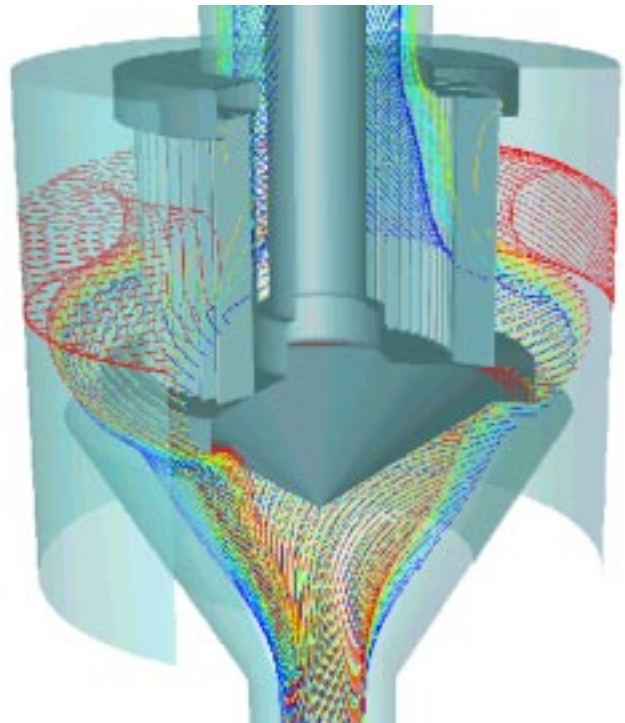
The Raymond® Jet-Stream™ Classifier design permits high turbine periphery speeds at reduced airflows, and allows for maximum control of both particle top size and distribution by varying these turbine speeds and airflows. Excellent control of average particles size, to as low as one micron, can be achieved.

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.



Air Preheater Company
Raymond Operations

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 system design features include:

■ Improved feed introduction

Material is introduced into the air stream 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

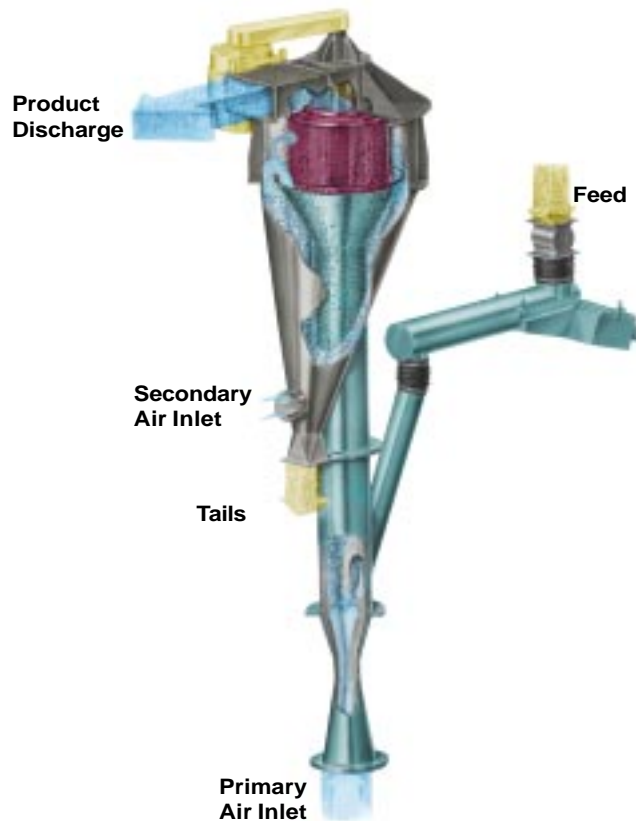
Some irregularly shaped particles or sticky materials tend to agglomerate within the classifier tailings. The Jet-Stream Classifier introduces secondary air to the tailings cone, which helps recover those particles by cleaning the fine material from the tailings.

■ Flexible operation

Easily varied rotor speed and air-flow results in immediate change and stabilization of the system. Systems with a high pressure drop and recirculation require a much longer period of time to reach equilibrium.

Specifications High Performance Raymond® Jet-Stream™ Classifier						
Model		JS-4.5	JS-25	JS-35	JS-80	JS-180
Airflow	ft ³ /min	450	2500	3500	8000	18000
	m ³ /hr	800	4200	6000	14000	30000
Nominal Feed Rate	lb/hr	200	1100	1600	3700	8300
	kg/hr	90	500	750	1700	3800
Classifier Power Req.	hp	3	20	30	75	150
	kW	2	15	22	55	110
Fan Power Req.	hp	3	30	40	100	200
	kW	2	22	30	75	160

*Nominal Feed Rate is based on 10 micron top particle size, 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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