

# Vortex Flow Crystallizer

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Keywords: crystallizer, fine particles

## 1. INTRODUCTION

Vortex Flow Crystallizer can continuously obtain fine particles whose particle size distribution has a single sharp peak. This crystallizer creates a strong vortex field for reaction within the reactor by circulating reaction slurry. This crystallizer enables uniform reaction crystallization in the reactor continuously by feeding the raw material into this vortex field directly and continuously.

## 2. FEATURES

- 1) This crystallizer can continuously manufacture fine particles (several  $\mu\text{m}$ ) with a sharp particle size distribution (monodispersity).
- 2) The start-up time can be reduced compared with a conventional agitation tank.
- 3) System volume can be reduced down to 1/10 compared with a conventional agitation tank for same production rate, because of high reaction efficiency and continuous production system.
- 4) Production capacity can be easily increased by numbering-up as this crystallizer is size-fixed unit. And its simple internal structure enables easy disassembly and cleaning.

