

FGD Hydrocyclone

for Coal-fired Powerplants

Particle classification of the limestone slurry used in Flue Gas Desulfurization is critical to exhaust gas scrubbing efficiency in coal fired power plants.

- ✓ The FGD hydrocyclone system from Townley is precisely engineered and manufactured for the most efficient distribution and recovery.
- ✓ With the unique use of Stainless steel and **Towniprene™** elastomer, Townley created a simple **five part** composite assembly.
- ✓ Long life, reliability and ease of maintenance are the hallmark of this system.



Benefits

Features

Best process performance

Major improvement in up-time performance.

→ Unique wear resistant Towniprene, integrated with 317L stainless steel structures.

Assured end-product quality

Maximum separation efficiency.

→ Simple, seamless fabrication, resulting in laminar vortex generation.

Reduction in operating costs

Longer up-time service performance.
Lower maintenance time.

→ Specialized material selection.
→ Fewer parts for assembly integrity.
→ Bladderless design will not collapse or vibrate.

One year "Return-on-Investment"

→ We'll do the math.



Engineering & Manufacturing Co., Inc.

Call or e-mail us and an experienced Townley Technical Sales Representative will work with you to spec out the right FGD Hydrocyclone System for your application.

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TOWNLEY

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Features:

Feed Chamber

Fabricated from 317L austenitic stainless steel. All internal wetted parts are molded with towniprene elastomer for maximum abrasion and corrosion resistance and integrated gasketing.

Easily relined this shell has a long life.

Vortex Finder

Cast from HC-34, this high-chrome alloy is very resistant to abrasion.

Stainless Steel Retaining Jacket

This sleeve functions as a shape retainer for the Towniprene cyclone body and provides a compression seal for mounting to the feed chamber.

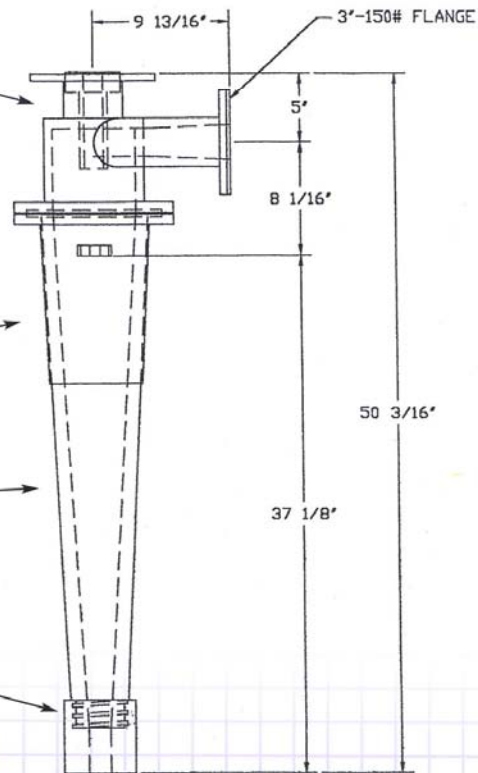
Towniprene Cone Body

Molded in one piece, this semi-rigid elastomer maintains a smooth vortex for minimum flow turbulence without hydraulic flutter experienced with rubber bladder style cyclones.

Threaded Apex

Designed with maintenance in mind, this high wear component is easily changed out.

A ceramic wear insert molded into the apex is available upon request.



FGD hydrocyclones for wet scrubbed coal-fired powerplants are available in a variety of sizes to match your current cyclone array or Townley can engineer a complete system including piping and valves.

Typically a 6" cone with a 7° taper is standard for the classification of ground limestone critical to efficient wet scrubbing.

Performance enhancing ancillary equipment

Overflows Butterfly Valves Knifegate Valves Headers Reducers Laterals

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