

S SERIES SAMPLING SYSTEMS

RC Involution Cyclone

Mineral Exploration



RC Involution Cyclone Specifications

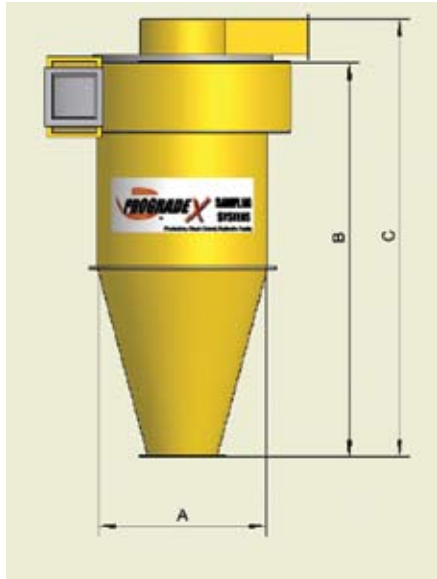
With increasing rig compressor volumes and pressures introduced to drill faster and deeper RC holes, today's cyclones are subjected to disproportionately high inlet velocities and pressures. The result is often extensive wear in a relatively brief period of time that results in loss of availability of the rig while the cyclone is under repair.

The revolutionary RC Involution Cyclone combines inlet velocity reduction with off-the-shelf ceramic liners to minimize wear, while increasing collection efficiency for sampling by intensifying centrifugal effect. A "drop-in" internal non-stick liner in the cone reduces potential for blockage, hang-up and cross contamination of samples.

The RC Involution Cyclone removes the need for primary and secondary mechanical collectors for sampling, while maintaining high collection efficiency of fines. Overall size, weight and blockage potential is vastly reduced.

RC Involution Cyclone Special Features

1. A long, gradual inlet transition, manufactured from a combination of ceramic tiles & special high-grade wear-resistant steel, allows pressurized drilling air to expand and slow down prior to entering the cyclone barrel to reduce velocity and wear.
2. Sweeping, 360° involute inlet scroll provides continued smooth reduction of inlet velocity, back-draft turbulence and pressure drop.
3. As a consequence of the involute inlet design, the cyclone diameter is able to decrease, providing an impressive 7% improvement in collection efficiency and a decrease in overall height & weight.
4. Special outlet volute scroll for overall height, weight and pressure drop reduction.
5. Gas strut-assisted, hinged lid with easy access, quick release clamps for fast, maintenance-friendly access to cyclone internals.
6. Easy-to-change, ceramic inlet wear-tiles standard for reduced wear & downtime.
7. 100% dust seal to atmosphere is assured, providing protection from dust, including dangerous mineral dusts such as silica & fibrous minerals.
8. Choice of inlet sampling hose connections.
9. Non-stick "drop-in" cone liner fitted as standard for drilling in clays.
10. For wet & dry drill sampling.



SPECIFICATIONS:

Nominal Dimensions (mm)				
cfm	A	B	C	kg
900 to 1,450	500	1,250	1,550	158
1,450 to 2,600	610	1,540	1,752	224



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