

MacDonald Steel Limited

Environmental Systems Division

Exhaust Systems - Dust Collector/Filtration Units – Balers – Fans – Shredders – Hogs

CYCLONES



The [MacDonald Steel](#) High Efficiency Cyclone / Separator Type "HE" is intended to handle a range of fine to coarse dust applications, the selection of the specific cyclone is dependant upon particle size and weight, inlet dust concentration, cyclone height and ratio of the separator body and gas outlet diameters. Generally, efficiency decreases with increasing gas viscosity or density, separator, body diameter, gas outlet diameter and gas inlet area.

[MacDonald Steel](#) Type "HE" Cyclone / Separators feature small diameters and elongated cylinder and cone lengths. The dust particles are separated from the conveying gas by a combination of centrifugal and gravitational forces.

The dirty gas enters the body of the cyclone tangentially and forms a spiral pattern in the cylindrical body resulting in centrifugal forces on the dust particles downward to the cone outlet while the clean gas reverses its direction and flows upward and outward by way of the vortex formed by the velocity of the spiraling gas.

Cyclone / Separators are of one piece all-steel welded construction of either abrasive resistant or hot rolled steel.

Our Cyclone / Separator can also be provided with a wear liner on the inlet to reduce body wear when very abrasive materials are being conveyed. All of our liners are made of abrasion resistant material as required by the application. We also provide a cleanout in the lower cone of each of our cyclones.

[MacDonald Steel](#) Cyclone / Separators are also available with structural support, safety ladders and platforms when purchased as a complete package.

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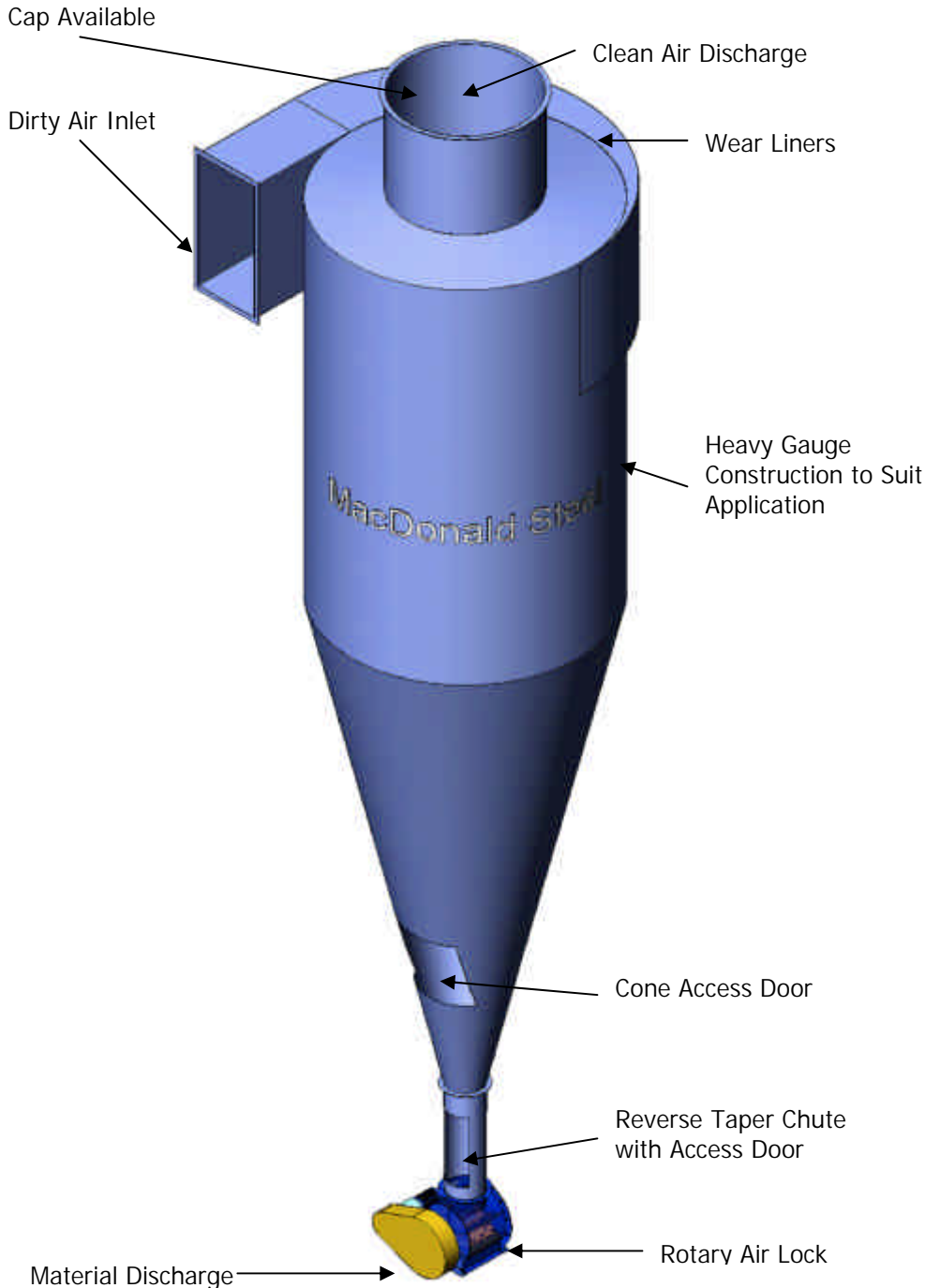
Available Up to 42 000 cfm

Sizes Range from 20" to 130"

Liners Available to Suit Application

Available as Blo-Thru and Pull-Thru

Cyclone Unit



Applications

Wood
Board Plants
Paper
Grain
Chemical
Foundries
Food
Pharmaceutical
Cement