

Technical Data Sheet

Implosion Relieve Damper

IRD

Product Line

IRD - Implosion Relieve Damper



Applications

Relief of negative pressure operation in order to assure no flue gases can escape during standard operation.

For use in engine exhaust, heating appliances, and other fuel fired equipment.

Principle of Operation / Function / Purpose

During normal operation the spring keeps the cover plate closed, if the combustion air damper is closed at the burner due to a blackout, the chimney cannot draw in air through the boiler.

The "missing" air now returns through the implosion damper. This prevents the so-called Joukowski shock by immediately opening the cover plate.

Example, if the flue gases are cut off from the chimney during a sudden appliance shutdown, the negative pressure in the chimney may contract (warp) the connecting breeching.



Features

- All-stainless steel construction.
- Heavy duty design.

Connection / Installation Details

Flange or factory welded onto a fitting.

May be installed vertically or horizontally.

