

HEAVY DUTY NON-RETURN DAMPER

KHDR-NR

The KHDR –NR has been designed to serve as a non-return damper in situations where high velocities and pressures are present



Design:

The KHDR –NR damper has been designed to allow for various types of operating conditions.

Temperature: -20 to +300 degrees C

Pressure: +/- 8000pa

Velocity: up to 40 m/s

Construction

Casing:

- 250 x 50 x 2mm thick mild steel, galvanised or stainless steel material. Folded and fully welded construction. Non standard flanges and 3mm thick casings available

Blades:

- 150mm pitch single skin 1.5 or 2.0mm thick material, overlapping action in mild steel, galvanised or stainless steel

Shafts:

- 20mm diameter continuous shafts in 316 stainless steel

Linkages:

- Side linkage, out of airstream, 3mm thick stainless steel quadrant arms and link bars.

Bearings:

- Oilite bushes (-9 to + 70 deg. C) standard. High temperature Oilite bushes to 220 deg. C. Graphite bronze to 300 deg. C. 25% carbon filled PTFE (chemical resistance)

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Operation

Gravity Operated:

- Externally linked blades to move uniformly in response to air velocity and pressure

Counterbalance Weights:

Counterbalance weights can be provided to:

- Assist or restrict blade operation in response to airflow
- Regulate blade operation when airflow is vertical

Weights are attached to an optional adjustable external crank arm.

*If required, the dampers can be pre-set in our factory to open at a specific pressure

Seals

Blades:

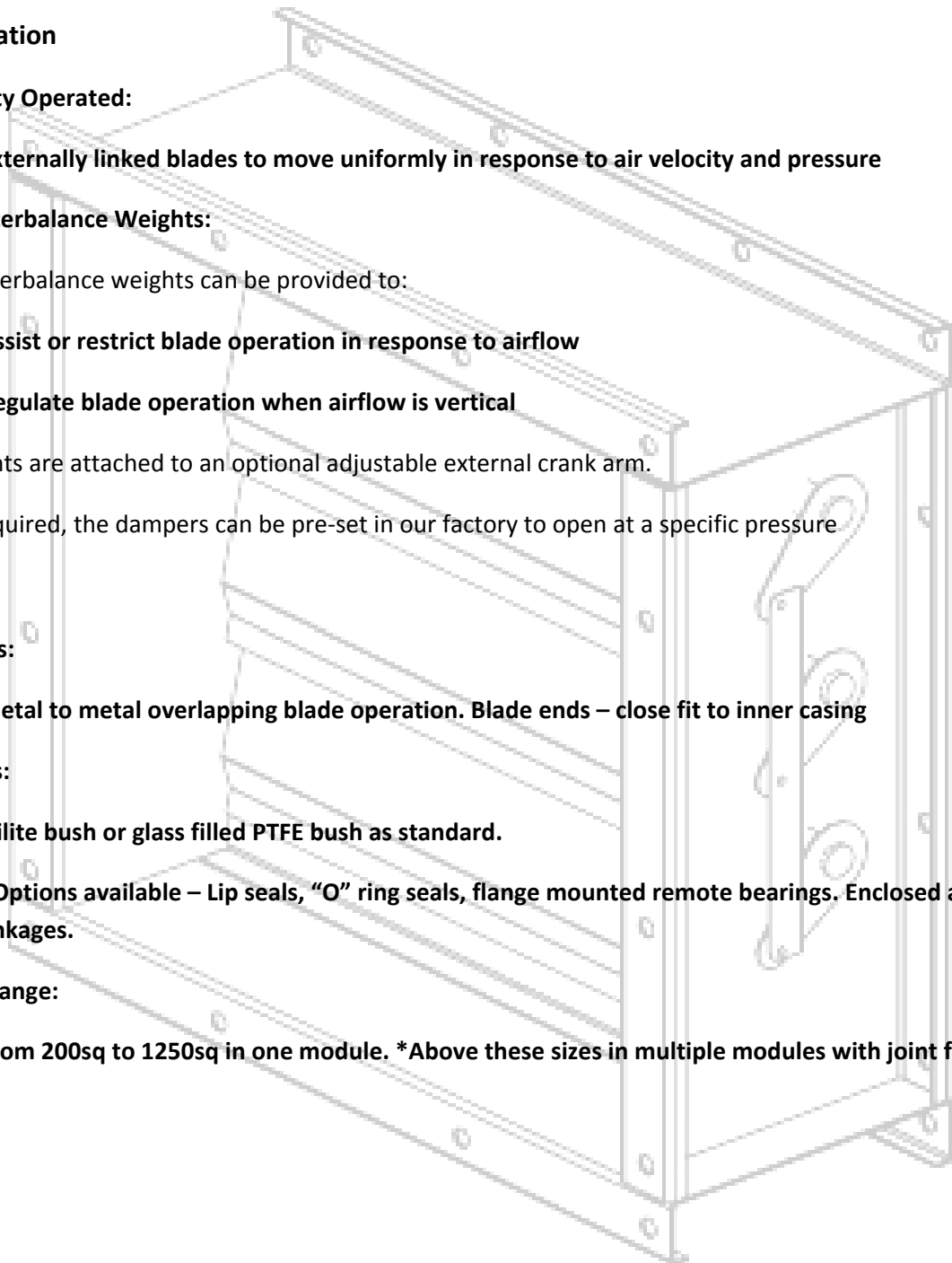
- Metal to metal overlapping blade operation. Blade ends – close fit to inner casing

Shafts:

- Oilite bush or glass filled PTFE bush as standard.
- *Options available – Lip seals, “O” ring seals, flange mounted remote bearings. Enclosed and sealed linkages.

Size Range:

- From 200sq to 1250sq in one module. *Above these sizes in multiple modules with joint flanges



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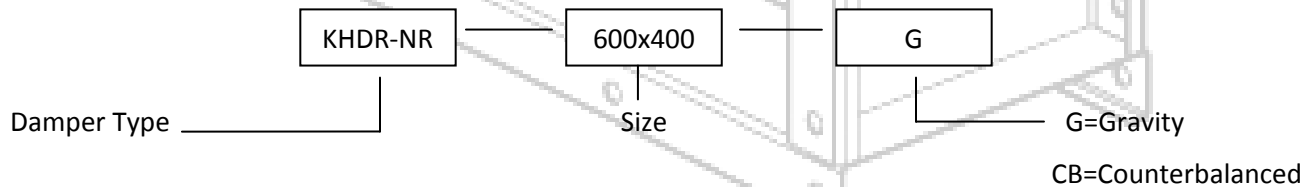
Alternative Options:

- Non standard casing depths and flange widths to suit customer requirements
- Circular drilled flanges in RSA and to BS & DIN standard patterns
- Polyester powder coat finish
- Food quality options available, including gaskets

The KHDR-NR “non-return damper” can be factory set to operate at specified pressure relief figures



Ordering



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