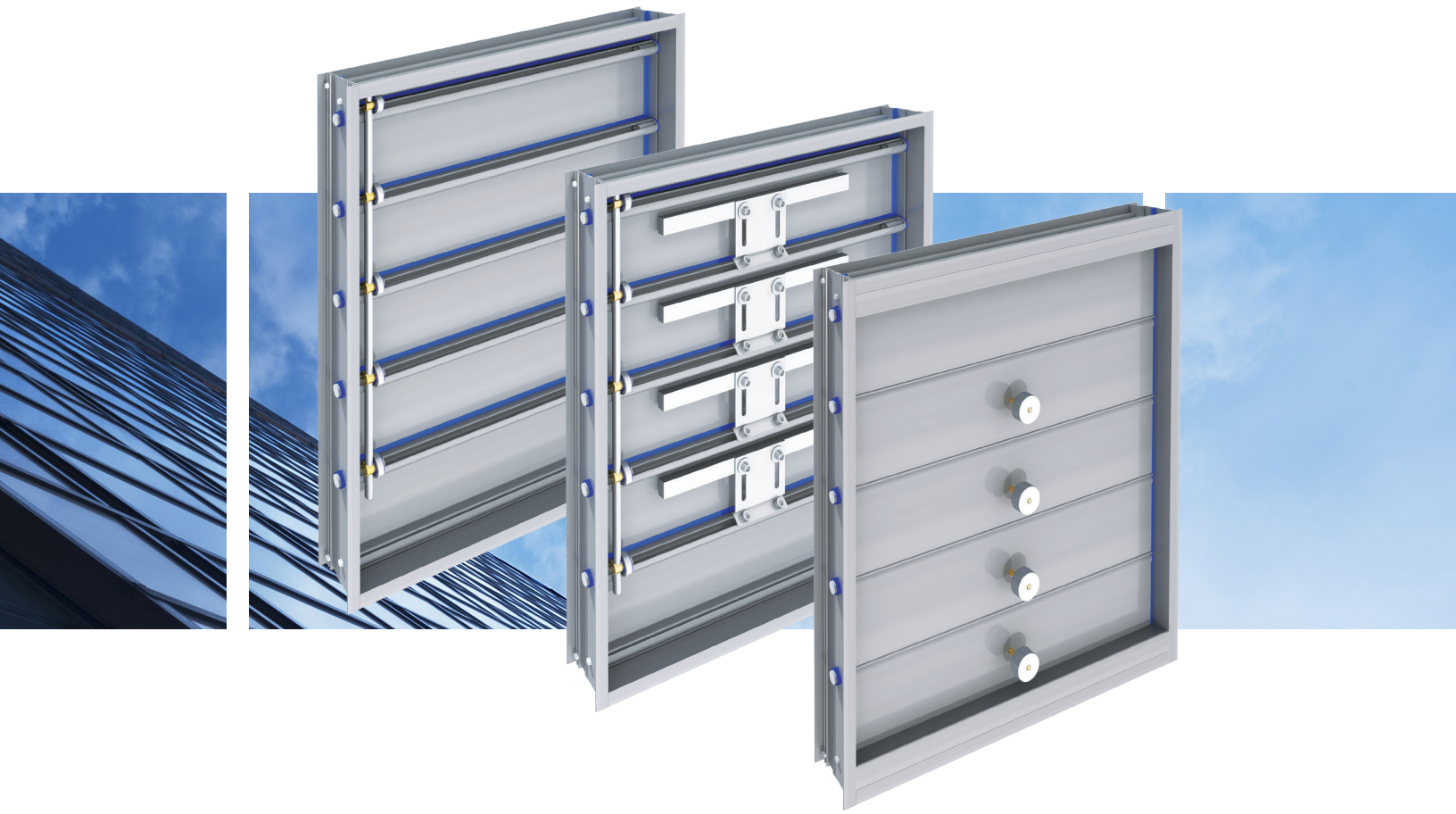
SERIES 7000, 7000 WT, 7000 CW

MEDIUM-DUTY BACKDRAFT DAMPER

TAMCO



EXPERIENCE TRUE EXCELLENCE IN SERVICE, QUALITY,

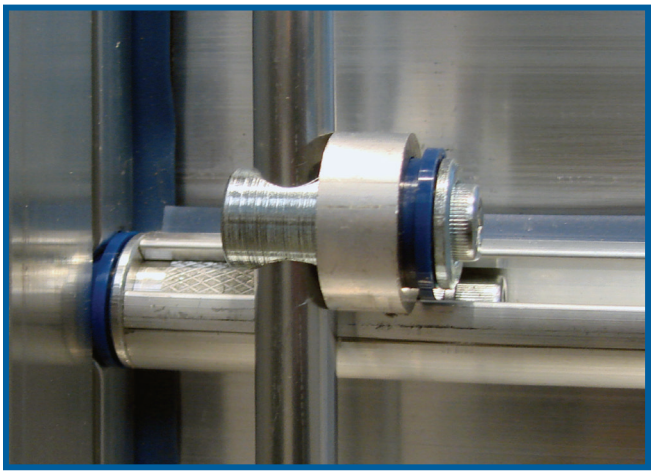
AND MAINTENANCE-FREE PERFORMANCE.

ALUMINUM
STRENGTH AND DURABILITY

- Aluminum backdraft dampers provide a prolonged and rust-free operational life over galvanized steel types.
- Aluminum extrusions allow for intricate design features not possible with roll or brake formed galvanized steel.
- Aluminum construction allows for additional strength by extruding internal supports and thicker radii.
- Aluminum oxidizes to form a protective film. If the surface is scratched, the film reforms.
  (Standard damper is produced with a mill finish.)

DEPENDABLE
"DUAL BEARING SYSTEM"

- Linkage system consists of hard alloy aluminum *(6005-T6C)* crank arms fastened to aluminum pivot rods and is doubly secured within a channel running along the top of the blade.
- Bearing system is composed of Celcon bearings rotating on ½" *(12.7 mm)* aluminum pivot points.
- Celcon bearings are self-sealing, self-lubricating, and non-absorbent, which results in a totally maintenance-free performance.
- Bearing materials meet or exceed tensile strength of 8,800 psi *(60,674 kPa)* and flexural strength of 12,000 psi *(82,738 kPa)*.
- Tensile impact strength of Celcon is 70 ft-lb/in² *(147.1 kN-m/m²)* .
- TAMCO's linkage system eliminates action between metal-to-metal riding surfaces. *(Metal-to-metal bearings have traditionally been one of the weakest links in damper operation, requiring regular lubrication or eventual replacement.)*



MAINTENANCE-FREE
PERFORMANCE ACHIEVED

- Backdraft dampers are assembled using slip-proof linkage components that keep blades aligned as per factory adjustment.
- Hexagon design feature of linkage and pivot elements allow for flat-on-flat press fits that eliminate play and wear.
- Hard alloy aluminum *(6005-T5)* linkage crank arm and pivot pin are doubly secured by pincer-action and fastener.
- Large diameter *(11/32" [8.73 mm])* hard alloy aluminum *(6005-T5)* linkage rod connects the crank arms, which allows for a penetrating grip by the cup-point fastener.
  (Cup-point trunnion set screw creates a compression hard spot where it secures to the linkage rod.)
- Trunnions are zinc-plated to provide a hard, smooth and long-lasting rotating surface.

LOW
LEAKAGE RATE

- Backdraft damper is supplied with extruded silicone blade and frame seals.
- Leakage through a 24" x 24" *(610 mm x 610 mm)* TAMCO backdraft damper at 1 in. w.g. *(.25 kPa)* pressure difference does not exceed 4.32 cfm/ft² *(21.95 l/s/m²)*.
- Service temperature of the damper is 212 °F *(100 °C)* to -40 °F *(-40 °C)*.
- Silicone's superior dynamic fatigue resistance ensures prolonged sealing longevity, plus phenomenal resistance to weathering, compression set, and heat.
- Silicone seals have an approximate service life of 30 years.

MEDIUM-DUTY BACKDRAFT DAMPER
UPGRADE OPTIONS

- MR - Moisture Resistance Option, suitable for applications where dampers are exposed to extended periods of high humidity or high moisture. Stainless steel parts replace all zinc-plated steel hardware of standard Medium-Duty Backdraft dampers.
- SW - Salt Water Resistance Option dampers are specifically designed for environments where there is salt spray or salt content in the air and/or where moisture levels are elevated. Damper blades, frames and aluminum hardware are all clear anodized. All zinc-plated steel hardware is replaced with stainless steel hardware.

SERIES 7000
MEDIUM-DUTY BACKDRAFT DAMPER

- Ideal for installations requiring a maintenance-free backdraft damper, subjected to medium airflows and operating pressures.
- Suitable wherever low-leakage performance is essential.
- TAMCO Medium-Duty Backdraft Dampers are available in Front Flange, In Duct, or Rear Flange install types
- Series 7000 Medium-Duty Backdraft Dampers allow mounting for horizontal airflow and airflow up operation.

SERIES 7000 WT
MEDIUM-DUTY WEIGHTED BACKDRAFT DAMPER

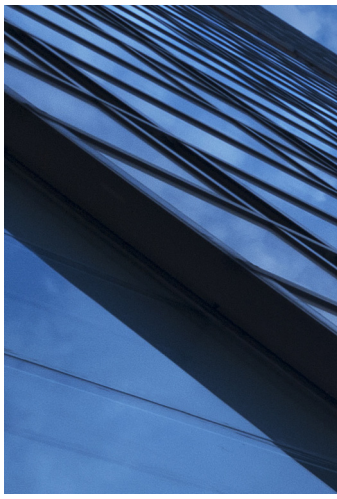
- Each blade is manufactured with a mounting hole to receive a front-mounted mechanical weight.
- Weights provide increased load resistance and tighter shut-off.
- Adjustable weights mounted on the exterior face of each blade, permit the blade opening to be tailored to achieve the required resistance and optimal performance, based on installation conditions. *(Weights are removable.)*
- TAMCO's weighted backdraft dampers are available in Front Flange, In Duct, or Rear Flange install types
- Series 7000 WT Weighted Medium-Duty Backdraft Dampers allow mounting for horizontal airflow and airflow up operation.

SERIES 7000 CW
MEDIUM-DUTY COUNTERWEIGHTED BACKDRAFT DAMPER

- Designed to allow opening at lower pressures and airflow velocities.
- Counterweights are fully adjustable and can be set to relieve air pressure differentials less than .01 in. w.g. *(3 Pa)*.
- Counterweights are threaded and allow adjustments to be made with only one tool.
- Brackets are slotted to allow precision slide adjustment of the weights.
- Series 7000 CW Counterweighted Backdraft Dampers allow mounting for horizontal airflow and both airflow up and down operation.

SERIES 7000, 7000 WT, 7000 CW



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