

SERIES 7600, 7600 WT, 7600 CW, 7600 CWA

HEAVY-DUTY BACKDRAFT DAMPER

TAMCO 



EXPERIENCE TRUE EXCELLENCE IN SERVICE, QUALITY,
AND MAINTENANCE-FREE PERFORMANCE.



FEATURES

HEAVY-DUTY PERFORMANCE ACHIEVED

- TAMCO's line of Heavy-Duty Backdraft Dampers are constructed with robust components to withstand up to 12" w.g. (3.0 kPa) of static pressure and velocities up to 3500 fpm (17.8 m/s).
- They are designed for operation in temperatures ranging from -40 °F (-40 °C) to 212 °F (100 °C).
- Series 7600 Backdraft Dampers are assembled using slip-proof linkage components that keep blades aligned as per factory adjustment, ensuring consistent performance over the life of the dampers.
- The hexagon design feature of the linkage and pivot elements allows for flat-on-flat press fits, that eliminate play and wear.

FIELD-ADJUSTABLE PERFORMANCE

- TAMCO Series 7600 WT has fully-adjustable external weights, mounted outside the airstream. These can be used to regulate the resistance to opening the blade.
- TAMCO Series 7600 CWA has fully-adjustable external counterbalance weights that can be set to relieve air pressure differentials less than 0.01 in. w.g. (3 Pa).

INNOVATION IN DESIGN

- Blades are designed with a rounded head to reduce pressure loss.
- This is the first backdraft damper in the industry to be designed with a dual-bearing system.

ALUMINUM STRENGTH & DURABILITY

- Aluminum 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.)

MAINTENANCE-FREE PERFORMANCE

- TAMCO's line of Heavy-Duty Backdraft Dampers are manufactured with the same dual bearing system used for TAMCO's control dampers, resulting in dependable, consistent, maintenance-free performance.

APPLICATIONS

TAMCO Heavy-Duty Backdraft Dampers are engineered for installations with elevated static pressures and velocities, where low leakage is not a major concern. They are ideal for use in applications requiring:

- high-pressure and unidirectional isolation
- high-velocity airflow
- resistance to vibration in fan isolation
- resistance to the effects of turbulent air

Heavy-Duty Backdraft dampers may be used in:

- Stairwell pressurization
- Fan inlets or outlets
- Generator sets
- Air handling units



IMPORTANT NOTE

Series 7600 Heavy-Duty Backdraft Dampers are not to be used as a replacement for Series 7000 Medium-Duty Backdraft Dampers. This is because Medium-Duty Backdraft Dampers are designed to provide ultra-low leakage rates, and Heavy-Duty Backdraft Dampers are intended for use where a more robust damper is needed, but where low leakage is not required.

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your local TAMCO Representative
tamcodampers.com

To contact TAMCO Customer Service,
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HEAVY-DUTY BACKDRAFT DAMPER FEATURES

SERIES 7600

HEAVY-DUTY BACKDRAFT DAMPER

- TAMCO heavy-duty backdraft dampers are constructed with robust components. The blades are designed with a rounded head, thereby reducing pressure loss.
- Series 7600 is manufactured with the same dual bearing and slip-proof linkage systems used for TAMCO's control dampers, resulting in dependable, consistent, maintenance-free performance.
- Silicone seals are provided as standard to ensure sealing longevity and remain flexible in temperatures down to -40 °F/C.

INSTALL TYPES:

- Installed In Duct
- Flanged to Duct
- Extended Front Flange
- Extended Rear Flange

AIRFLOW OPERATION

- Horizontal Airflow
- Airflow Up



SERIES 7600 WT

ADJUSTABLE WEIGHTED HEAVY-DUTY BACKDRAFT DAMPER

- The weights on TAMCO's Series 7600 WT provide increased load resistance and a tighter shut-off.
- This permits the blade opening to be tailored to achieve the required resistance and optimal performance, based on installation conditions. (*Weights are removable.*)
- Ideal for installations where adjustable blade resistance is required to resist or delay opening against airflow until a desired static pressure is achieved.
- Fully-adjustable weights are mounted outside the air stream.
- Silicone seals are provided as standard to ensure sealing longevity and remain flexible in temperatures down to -40 °F/C.

INSTALL TYPES:

- Flanged to Duct
- Extended Front Flange

AIRFLOW OPERATION

- Horizontal Airflow
- Airflow Up



HEAVY-DUTY BACKDRAFT DAMPER FEATURES

SERIES 7600 CW

INTERNALLY COUNTERWEIGHTED HEAVY-DUTY BACKDRAFT DAMPER

- Counterweights on TAMCO's Series 7600 CW are provided to accelerate blade opening.
- This allows blades to achieve the full open position at lower pressures or airflow velocities.
- Each blade is fitted with a fixed internal counterweight.
- Silicone seals are provided as standard to ensure sealing longevity and remain flexible in temperatures down to -40 °F/C.

INSTALL TYPES:

- Installed In Duct
- Flanged to Duct
- Extended Front Flange
- Extended Rear Flange

AIRFLOW OPERATION

- Horizontal Airflow
- Airflow Up



US Patent number 10,514,181 B2

SERIES 7600 CWA

ADJUSTABLE COUNTERWEIGHTED HEAVY-DUTY BACKDRAFT DAMPER

- Both internal and external counterweights on TAMCO's Series 7600 CWA are provided to accelerate blade opening, and to allow blades to achieve the full open position at the lowest pressures or airflow velocities.
- This series is ideal for installations requiring a heavy-duty backdraft damper with field-adjustable pressure relief.
- Each blade is fitted with a fixed internal counterweight.
- Additional fully-adjustable external counterbalance weights are mounted outside the airstream. These can be set to relieve air pressure differentials less than 0.01 in. w.g. (3.0 Pa).
- Series 7600 CWA has the further advantage of producing the lowest pressure drop at lower airflow velocities.
- Silicone seals are provided as standard to ensure sealing longevity and remain flexible in temperatures down to -40 °F/C.

INSTALL TYPES:

- Flanged to Duct
- Extended Rear Flange

AIRFLOW OPERATION

- Horizontal Airflow
- Airflow Up
- Airflow Down



US Patent number 10,514,181 B2

**ELEVATED TEMPERATURE
ET OPTION**

- Suitable for high heat environments where temperatures may reach as high as 300 °F (149 °C).
- This option is ideal for backdraft dampers intended for use in back-up generator stations, where excessive heat may be an issue.
- It is well-suited for test laboratory applications, wherever high-heat conditions may exist.
- The Elevated Temperature Option is also a practical solution in mildly acidic applications, where Celcon bearings may not withstand environmental conditions.
- Celcon and polycarbonate bearings are replaced with bronze-oilite bearings.

**SALT WATER RESISTANCE
SW OPTION**

- The extruded aluminum frames and blades are all clear anodized to a minimum thickness of 0.7 mil (18 microns) deep.
- The frame is assembled with stainless steel screws.
- Stainless steel hardware, linkage parts and screws replace all zinc-plated steel components.
- All aluminum linkage hardware parts are clear anodized.
- Ideally suited for coastal climates.
- Recommended for inland applications, where tire spray from winter-salted roads has been known to corrode backdraft dampers installed in close proximity to roads or highways.
- Excellent solution for high humidity applications such as water treatment facilities, municipal pools and greenhouses.

FOR SERIES 7600 WT AND 7600 CWA:

External crankarms, counterbalance crankarms, and weights are not available in stainless steel and may be subject to rust or corrosion in high moisture or salt spray environments.

**MOISTURE RESISTANCE
MR OPTION**

- All zinc-plated, steel hardware is replaced with stainless steel, protecting hardware from rust and corrosion.
- Suitable for applications where backdraft dampers are exposed to extended periods of high humidity or high moisture.
- The Moisture Resistance Option is a cost effective alternative to the Salt Water Resistance Option for applications where salt spray is not a concern.

FOR SERIES 7600 WT AND 7600 CWA:

External crankarms, counterbalance crankarms, and weights are not available in stainless steel and may be subject to rust or corrosion in high moisture environments.

SERIES 7600, 7600 WT, 7600 CW, 7600 CWA



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