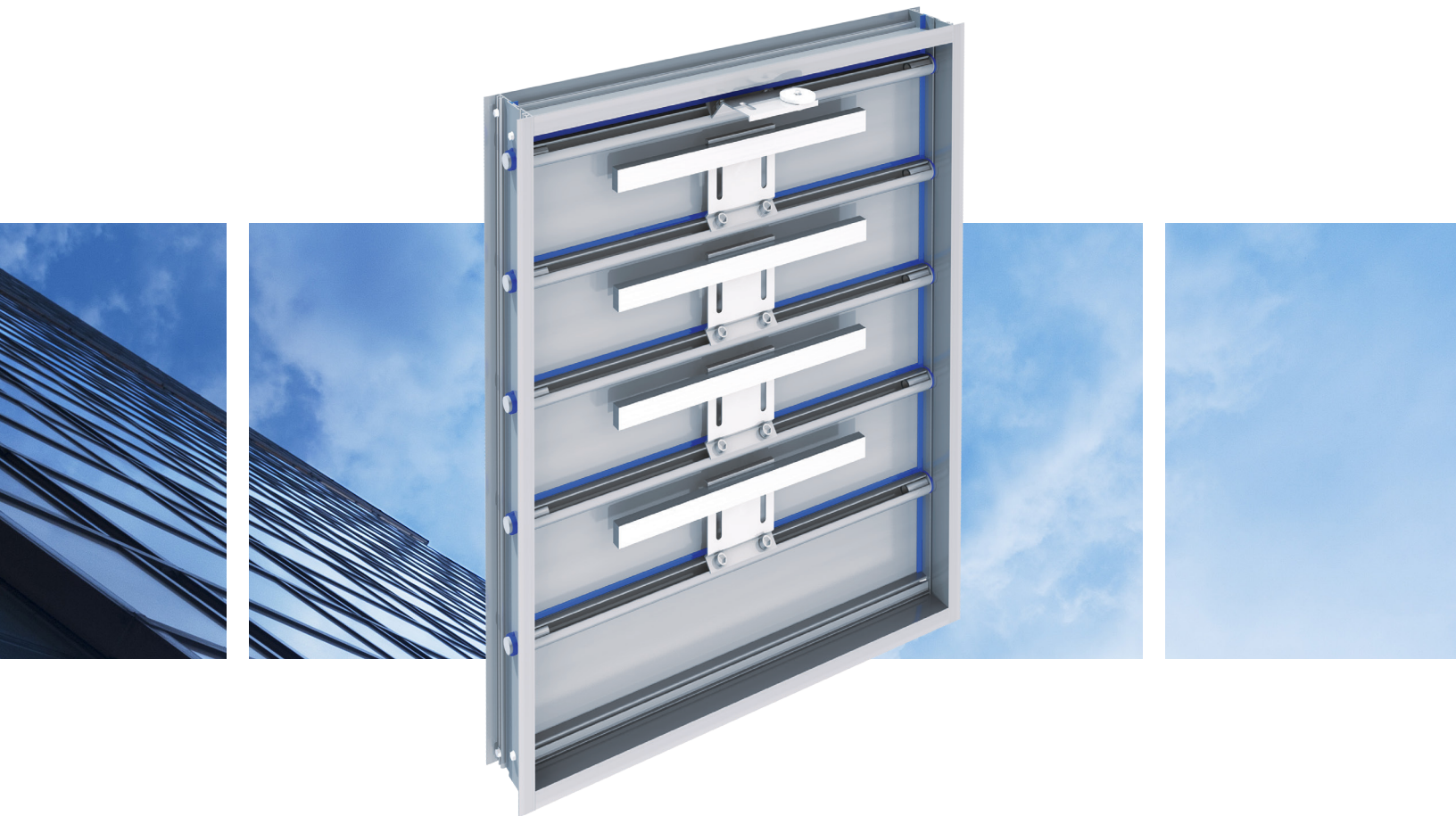


# SERIES 7100 CW

ADJUSTABLE COUNTERWEIGHTED BACKDRAFT DAMPER  
MEDIUM-DUTY, NO LINKAGE, HORIZONTAL BLADE  
FOR LAMINAR, NON-TURBULENT AIRFLOW

TAMCO 



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

## FEATURES | Series 7100 CW

Adjustable counterweighted backdraft damper  
Medium-duty, no linkage, horizontal blade  
for laminar, non-turbulent airflow

### INNOVATIVE NATURAL AIRFLOW SYSTEM

- Linkage-free system.
- TAMCO designed and engineered counterweight system.

### INDEPENDENT HORIZONTAL BLADE ACTION

- Blades are not connected by linkage thus each blade operates independently of one another.
- Each blade is equipped with aluminum counterbalance weights.
  - Weights are fully adjustable and can be set to relieve air pressure differentials less than 0.01" w.g. (3 Pa).
- Natural blade operation due to static pressure differentials and airflow velocities, not through mechanical assistance.

### MAINTENANCE-FREE DESIGN ACHIEVED

- Celcon bearings are self-lubricating
  - No metal-to-metal riding surfaces, therefore maintenance free.
  - Traditional metal-to-metal bearings are one of the weakest links in damper operation, requiring regular lubrication and eventual replacement.
- Passive operating design minimizes the total amount of components, reducing maintenance needs while enhancing system efficiency and reliability.



The combination of the blade channel and Celcon bearing allow for natural, passive airflow with back draft protection.

### PASSIVE GRAVITY BASED OPERATION

- Blades return to a closed position when the air velocity and pressure ceases.
  - Greater reverse air flow will close blades.
- Counterweight system is engineered for horizontal airflow applications only.
- This damper is not suitable for use with an actuator.

### SUPERIOR QUALITY PERFORMANCE ENHANCING MATERIALS

- Frame - Extruded Aluminum
  - Not less than 0.060" (1.52 mm) in thickness.
  - 2-1/2" (63.5 mm) deep x 5/8" (15.9 mm), mounting flanges on both sides of frame.
  - 1-7/8" mounting flange.
- Blades - Extruded Aluminum
  - Not less than 0.060" (1.52 mm) in thickness.
- Counterweights - Aluminum
  - Blade mounted.
  - Fully adjustable.
- Blades axles - Aluminum
  - 1/2" (12.7 mm) pivot points.
  - Rotation on Celcon bearings, minimizes friction while enhancing durability.

### MEDIUM-DUTY BACKDRAFT DAMPER UPGRADE OPTIONS

- Moisture Resistance (MR)
  - Suitable for applications where dampers are exposed to extended periods of high humidity or high moisture.
  - All zinc-plated steel hardware is replaced with stainless steel hardware.
- Salt Water Resistance (SW)
  - Specifically designed for environments where there is salt spray or salt content in the air.
  - Aluminum frame, blades, and axles are clear anodized to a minimum depth of 0.7 mil (18 microns).
  - All zinc-plated steel hardware is replaced with stainless steel hardware.

## APPLICATIONS & SPECIFICATIONS | Series 7100 CW

Adjustable counterweighted backdraft damper  
Medium-duty, no linkage, horizontal blade  
for laminar, non-turbulent airflow



### OPERATION PERFORMANCE

- Designed for laminar, non-turbulent horizontal airflow.
- Linkage-free damper, allowing independent blade action related to static pressure and airflow velocity change.
  - Damper operates at low pressure and velocity.
- Fully adjustable counterweights.
  - Can be set to relieve air at pressure differentials less than 0.01" w.g. (3 Pa).
- Based on a 24" x 24" (610 mm x 610 mm) sized 7100 CW damper.
  - Air leakage does not exceed 5.55 cfm/ft<sup>2</sup> (28.2 l/s/m<sup>2</sup>) against 1.0" w.g. (0.25 kPa).
  - Pressure drop does not exceed 0.082" w.g. at 500 fpm (0.02 kPa at 2.54 m/s).
- Temperature range is -40 °F (-40 °C) to 212 °F (100 °C).
- Available in three install types: In-Duct, Rear Flange, or Front Flange.
- Vertical mount, horizontal airflow operation only.

### DESIGN CHARACTERISTICS

- For low velocity, low pressure backdraft applications with horizontal airflow.
- Functions as a true backdraft damper.
- Designed to open at low pressure and low airflow velocities.
- Applications:
  - As an exhaust mechanism.
  - Fan intake systems.



First blade has adjustable counterbalance.



# SERIES 7100 CW



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