

SUGGESTED SPECIFICATIONS

TAMCO SERIES 9000 SC THERMALLY INSULATED DAMPER WITH SEVERE COLD SILICONE OPTION

- 9.0 Extruded aluminum (6063T5) damper frame shall not be less than .080" (2.03mm) in thickness. Damper frame to be 4" (101.6mm) deep and shall be insulated with polystyrofoam on three sides if "Installed in Duct" type and on four sides if "Flanged to Duct" type. As required, provide flanged damper with thermally broken frame.
- 9.1 Blades to be extruded aluminum (6063T5) profiles, internally insulated with expanded polyurethane foam. Blades must be thermally broken. Complete blade shall have an insulating factor of R-2.29 and a temperature index of 55.
- 9.2 Blade and frame seals shall be of extruded silicone and be secured in an integral slot within the aluminum extrusions. Steel spring frame seals are not acceptable.
- 9.3 Bearings are to be composed of a Celcon inner bearing fixed to a $\frac{7}{16}$ " (11.11mm) aluminum hexagon blade pin, rotating within a polycarbonate outer bearing inserted in the frame, resulting in no metal-to-metal or metal-to-plastic contact. Metal to metal "oilite" type bearings are not acceptable.
- 9.4 Linkage hardware shall be installed in the frame side and constructed of aluminum and corrosion-resistant, zinc-plated steel, complete with cup-point trunnion screws for a slip-proof grip.
- 9.5 Dampers are to be designed for operation in temperatures ranging between -40°F (-40°C) and 212°F (100°C).
- 9.6 Dampers shall be available with either opposed blade action or parallel blade action.
- 9.7 Air leakage through a 48" x 48" (1220mm x 1220mm) damper shall not exceed 4.12 cfm/ft.² (21 l/s.m²) against 4" (1kPa) w.g. differential static pressure at standard air.
- 9.8 Leakage shall not exceed 4.9 cfm/ft.² (25 l/s.m²) against 4" (1kPa) w.g. differential static pressure at -40°F (-40°C).
- 9.9 Pressure drop of a fully open 48" x 48" (1220mm x 1220mm) damper shall not exceed .03" (.007kPa) w.g. at 1000 fpm (5.08 m/s).
- 9.10 Dampers shall be made to size required without blanking off free area.
- 9.11 Dampers shall be available in two mounting types: i.e., "Installed in Duct" or "Flanged to Duct".
- 9.12 Installation of dampers must be in accordance with current manufacturer's installation guidelines provided with each shipment of TAMCO dampers. (Note all technical information available on TAMCO's web site at www.tamco.ca supersedes and takes precedence over all information contained within the printed catalog.)
- 9.13 Intermediate or tubular steel structural support is required to resist applied pressure loads for dampers that consist of two or more sections in both height and width. (See TAMCO Aluminum Damper Installation Guidelines.)
- 9.14 Acceptable product shall be TAMCO Series 9000 SC Thermally Insulated Damper with Severe Cold Option, as manufactured by T. A. Morrison & Co., Inc. (Tel: 1-800-561-3449, USA & Canada)