

OUT OF WALL COMBINATION FIRE/SMOKE DAMPER MODULATING **GRILLE MOUNT WITH ACTUATOR ACCESS** 1 1/2 HR. LABEL • ULTRA-LOW LEAKAGE MODEL: 1221-OWM



- UL 555 & CAN/ULC-S112 CLASSIFIED DYNAMIC FIRE DAMPER 1 hr. Label (File # R9492).
- UL 555S CLASSIFIED SMOKE DAMPER (File # R9492) Leakage Class I at 250°F elevated temperature.
- Meets NFPA 80, 90A, 92, 101 and 105 as well as IBC and NBC (Canada) Building Code requirements.
- Maximum velocity: 2000 fpm @ 4" w.g. (10 m/s @ 1 kPa).
- · For use in vertical or horizontal concrete partitions and vertical steel stud partitions only.

Model 1221-OWM is a modulating "out of wall" high performance combination fire/ smoke damper. It is specifically designed for supply or return ducts that terminate at a grille and provides through the grille access to the damper, actuator and other components. Standard sleeve length accommodates most commercial supply and return grilles/registers.

The 1221-OWM is ideal for applications where building codes require both a fire damper for the protection of ductwork penetrations in walls or floors that have a fire resistance rating of up to 2 hours and also require a leakage rated damper for operational smoke control in static or dynamic smoke management systems.

The 1221-OWM offers premium performance with the lowest leakage class available and a low pressure drop well suited to the majority of commercial applications. Unique, inter-locking double skin blade design eliminates combustible seals and provides flame and smoke seal under fire conditions at temperatures up to 2000°F (1093°C).

STANDARD CONSTRUCTION:

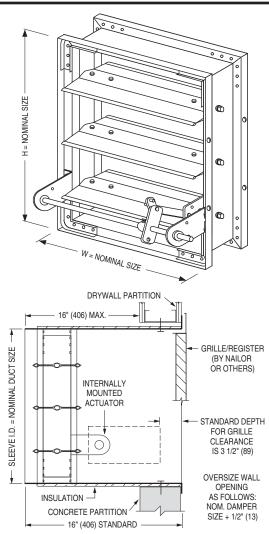
Frame:	5" x 7/8" x 16 ga. (127 x 22 x 1.6) galvanized steel hat channel.
Blades:	14 ga. (2.0) equivalent galvanized steel formed airfoil on 5 1/2" (140) centers. Opposed action.
Sleeve:	16" x 20 ga. (406 x 1.0) galvanized steel with 3/4" (19) flange on one end standard for all dampers over 16" (406) high. Dampers 16" (406) high and under have a 20" (508) long sleeve.
Insulation:	Intumescent thermal insulation on four sides.
Linkage:	Concealed in frame. 12 ga. (2.7) plated steel.
Bearings:	1/2" (13) dia. self-lubricating oilite bronze.
Axles:	1/2" (13) dia. plated steel double bolted to blades.
Jackshaft:	1/2" (13) dia. cadmium plated steel.
Jamb Seals:	Stainless steel.

Heat Responsive Device (Controlled Closure):

ERL (Electric Resettable Link) is standard on dampers with electric actuators: 250°F (121°C) standard. 165°F (74°C) and 212°F (100°C) available.

Sizes (Duct W x H):

Velocity/ Pressure	Elevated Temp.	Minimum Single Section	Maximum Single Section			
Rating	°F	Vertical/Horizontal	Vertical	Horizontal		
24	250	8" x 20" (203 x 508)	36" x 48" (914 x 1219)	32" x 48" (813 x 1219)		
BASE MODEL SELECTION:						
□ 1221-OWM Standard 16" (406) long x 20 ga. (1.0) insulated sleeve with 3/4" (19) flange on grille side.						
□ 1221-OWM Non-standard sleeve. Specify length. Shorter sleeve lengths are available (down to 14" [350]) dependant on height. Contact factory for limitations.				to 14" [350])		
SCHEDULE TYPE:						
PROJEC	T:					
ENGINE	ER:					



LEAKAGE CLASS/ELEVATED TEMPERATURE: 1 @ 250°

DYNAMIC VELOCITY/PRESSURE RATING:

24 2000 fpm @ 4" w.g.

ACTUATOR SELECTION:

Electric

ACTUATOR FAIL POSITION:

CL Closed

OPTIONS:

- BS Stainless steel bearings
- □ MLS-300 Position indicator switch pack

□ MLS-400	Electric Fire Sensor (Re-openable control system). Includes dual heat sensors (165°F or 250°F) and position indicator switch pack.	
QS1	Quick-set retaining angle (one side)	

For installation instructions, see IOM-1221DOWINST. Dimensions are in inches (mm).