AIR CONTROL DAMPER
MODEL KACAB32 or 42

GALVANIZED AIRFOIL AIR CONTROL DAMPER
ULTRA LOW LEAK

STANDARD CONSTRUCTION

FRAME:
16 Ga galvanized steel interlocking hat channel frame construction.
22 Ga galvanized steel Flat type frame.
BLADES:
Double Skin, Galvanized Airfoil Blades
Parallel blades model KACAB32
Opposed blades model KACAB42
BEARINGS:
Nylon bearings
AXLES:
0.47”(12mm) Square zinc plated steel stud
SEALS:
Stainless Steel Jamb Seal
Rubber Foam Blade Seal
LINKAGE:
Concealed in frame 10Ga (3mm) zinc plated steel
MANUAL HAND-QUADRANT:
Galvanized steel die cast hand-quadrant plated for square or round shaft installed on an elevated bearing bracket
BRACKET:
1” (25mm) elevated hand bracket
FINISH:
Mill galvanized

OPTIONS:

1) BEARINGS:
   Bronze bearings (std for motorized dampers) or stainless steel bearings.
2) FRAME CONSTRUCTION
   Stainless steel frame construction.
3) BLADE CONSTRUCTION
   Stainless steel blade construction.
4) ACTUATORS:
   a) Electric (24,120 & 230V) or pneumatic.
   b) Spring return or non spring return.
   c) With or without auxiliary switch.
5) Blades indicator switch - BIS
6) a) FLANGES FOR HAT TYPE FRAME:
   Standard duct flanges 35mm (with 1.5mm thickness for damper without sleeve or same as sleeve thickness) or duct mate flanges 35mm
6) b) FLANGES FOR FLAT TYPE FRAME:
   Standard duct flanges 20mm (with thickness same as flat type frame thickness)
   or duct mate flanges 35mm
7) SLEEVES (Not applicable on Flat type):
   Refer to the air control damper sleeve catalogue for standard type of sleeve
8) EXTENDED SHAFT (without Hand Quadrant):
   4.7” (120mm) extended shaft (round or square) beyond the air control frame.
9) 2" Elevated hand bracket.
10) Extended frame depth for Flat Type

APPLICATION

KACAB volume dampers series are designed to provide superior air control with high performance and heavy duty construction. KACAB 32 or 42 Dampers are specifically designed for manual balancing applications. They are suitable for use in the majority of commercial medium to high pressure and velocity HVAC systems.
They are designed and built to provide a cost effective and reliable dampers for reduced volume control and not positive shut-off.

MINIMUM SIZES:

a) SINGLE BLADE FLAT TYPE:
4"W(101mm) x 4"H(101mm).
b) SINGLE BLADE HAT TYPE:
14"W(355mm) x 6"H(152mm) & 12"W(305mm) x 8"H(203mm) & 6"W(152mm) x 10"H(254mm) & 6"W(152mm) x 12"H(305mm)
c) MULTI-BLADES :
20"W(508mm) x 12"H(305mm) & 6"W(152mm) x 14"H(355mm)

Notes: Dampers with width 4” & 5” are only available up to 8” height

MAXIMUM SIZES:

a) SINGLE BLADE FLAT TYPE:
10"W(254mm) x 8"H(203mm) & 12"W(305mm) x 6"H(152mm) & 48"W(1219mm) x 5"H(127mm)
b) SINGLE BLADE HAT TYPE:
48"W(1219mm) x 10"H(254mm) & 18"W(458mm) x 12"H(305mm)
c) MULTI-BLADES SINGLE SECTION:
48"W(1219mm)x 48"H(1219mm)

MULTI-SECTIONS: UNLIMITED

For hat type : dampers are supplied 1/4" less than order WIDTH & HEIGHT unless specified "ACTUAL SIZE"
For flat type : dampers are supplied with "ACTUAL SIZE"

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ORDERING INFORMATION

BLADES OPERATION	FRAME THICKNESS	FRAME & BLADES CONSTRUCTION	BEARING	BRACKET	DAMPER CONTROL	FLANGE	WIDTH	HEIGHT
	-	-	-	-	-	-	-	X

KACAB32: Parallel blades
KACAB42: Opposed blades

08: 22Ga (Std for Flat)
10: 20Ga
--: 16Ga (Std for Hat)
20: 14Ga

-- : Galvanized Construction (Std)
SB: Galvanized Frame, Stainless Steel Blades
SSF-SB: Stainless Steel Construction

-- : Nylon bearing (Std)
BB : Bronze bearing
BSS: Stainless steel bearing

-- : 1" bracket (Std)
B2 : 2" bracket

-- : Manual hand quadrand (Std)
M : Motorized
Ext: 4.7" Extended shaft

-- : Without flange (Std)
FLG : Duct flange size 35 mm
DM35 : Duct mate 35 mm

Example: KACAB42-BB-M-24x24 -- Motorized damper 24x24 Hat type 16ga galvanized frame & double skin galvanized opposed blades with bronze bearing.
KACAB32-08-BSS-8x8 - Manual damper 8x8 Flat type with 22ga galvanized frame & double skin galvanized blade with stainless steel bearing

ACTUATOR SELECTION:

Please select the specifications needed for the actuator:

Electric	☐			Pneumatic	☐
24 VAC	☐	230VAC	☐	Spring return	☐
Spring return	☐	Non spring return	☐	Non spring return	☐
On/Off	☐	Modulating	☐		
With auxiliary switch	☐	Without auxiliary switch	☐		

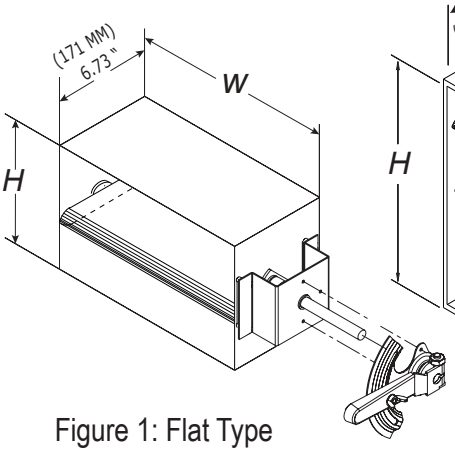

Figure 1: Flat Type

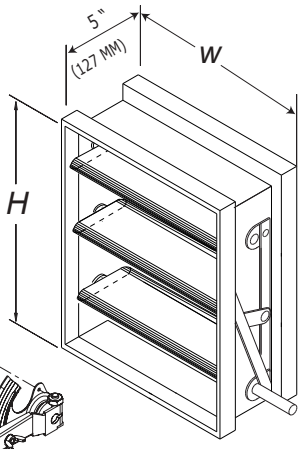

Figure 2: Hat Type

Note:
Volume Dampers with width or height that exceed 48" (1200mm) are manufactured as multiple section and field assembled by others.