# VCD VOLUME CONTROL DAMPER





# **E.h.**price | Gulf

## **INDEX**

K-VCD-GI-200	1
Model CCD-GI-AL-200	4
Model CCD-GI-AL-200-M	7
Model CCD-GI-GI-100	10

#### **APPLICATION**

- Volume control dampers with manual quadrant are generally installed in branches / duct to manually adjust the air flow in that particular branch / duct or to isolate any particular area of the building.
- Volume control dampers with motorization are generally installed at the inlet and outlet of the AHU to facilitate the airflow or to protect the AHU or ductwork against unwanted ingress.



EH PRICE GULF certifies that the VCD model: K-VCD-GI-200 shown herein is licensed to bear the AMCA Seal. The rating shown are based on tests and procedures performed in accordance with AMCA Publications 511 and comply with requirements of the AMCA Certified Rating Programs. The AMCA

certified Ratings seal applies to air performance and air leakage ratings.

#### **DESCRIPTION**

K-VCD-GI-200 used for balancing air flow in a branch / duct.

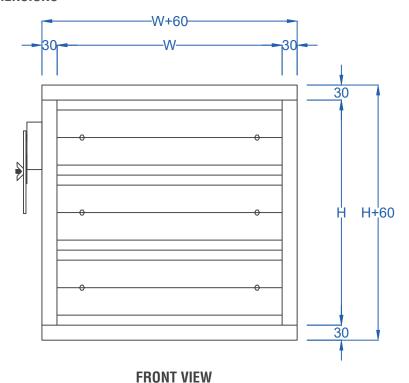
#### **FEATURES**

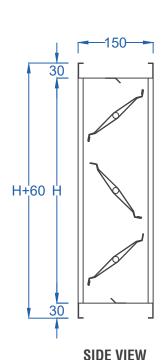
- · Operation: Opposed blade movement
- Frame: Hat shaped 18 gauge (1.20 mm) galvanized steel sheet
- Blade: Aerofoil, double walled, 1.60 mm equivalent thickness galvanized steel sheet
- · Linkage: Internal galvanized steel
- Bush: Option available Nylon / Plastic / Brass
- · Gasket: Option available Rubber foam / Neoprene / Silicon fire rated
- Fixing: Box type / Slip and clip / Integral flange / External flange
- Option available with frame thickness of upto 12 gauge galvanized steel sheet





#### **DIMENSIONS**





#### **AIR PERFORMANCE**

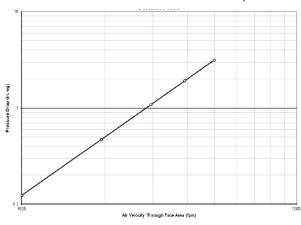
#### **Pressure Drop - Intake**

K-VCD-GI-200 **Air Performance** testing has been performed in accordance with Test Method as per ANSI/AMCA STANDARD 500 D (Pressure Drop), Figure 5.1

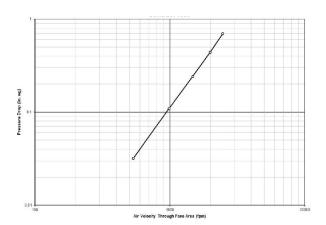
### **Pressure Drop – Exhaust**

K-VCD-GI-200 **Air Performance** testing has been performed in accordance with Test Method as per ANSI/AMCA STANDARD 500 D (Pressure Drop), Figure 5.1

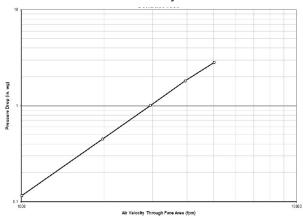
The maximum static pressure drop for specified air flow at standard air density



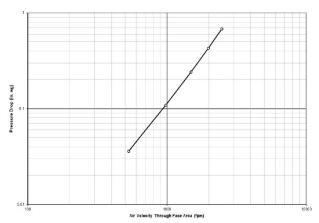
12" x 12"			
Velocity (fpm)	ΔP (In. wg)		
5008	3.14		
3910	1.92		
2951	1.09		
1946	0.47		
1003	0.12		



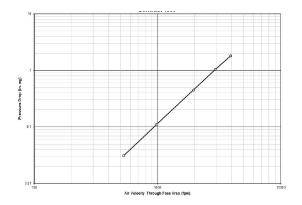
24" x 24"			
Velocity (fpm) ΔP (In. wg)			
2467	0.7		
1984	0.44		
1479	0.24		
986	0.11		
536	0.03		

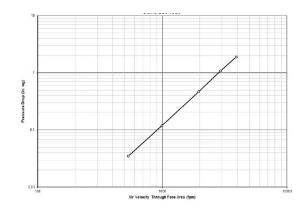


12" x 12"			
Velocity (fpm) ΔP (In. w			
5018	2.83		
3936	1.81		
2946	1.01		
1976	0.45		
1003	0.12		



24" x 24"			
Velocity (fpm) ΔP (In. wg)			
2471	0.68		
1977	0.43		
1485	0.24		
982	0.11		
531	0.04		





36" x 36"			
Velocity (fpm)	ΔP (In. wg)		
3913	1.83		
2934	1.04		
1956	0.45		
989	0.11		
531	0.03		

36" x 36"			
Velocity (fpm) ΔP (In. wg)			
3912	1.9		
2928	1.09		
1961	0.47		
991	0.12		
534	0.04		

#### **AIR LEAKAGE**

K-VCD-GI-200, is tested for **Air Leakage** in accordance with Test Method as per ANSI/AMCA STANDARD 500 D (Leakage), Figure 5.4. Data is based on operation between 0 °C to 49 °C with a torque of 24 lb.in applied to close and seal the Damper during test.

Maximum Allowable Leakage, cfm/ft2					
Class 1 Inch. wg 2 Inch. wg 3 Inch. wg 4 Inch. wg					
1A	3	N/A	N/A	N/A	
1	4	6	7	8	
2	10	14	17	20	
3	40	57	69	80	

AMCA Leakage Class				
Class	1 Inch. wg	2 Inch. wg	3 Inch. wg	4 Inch. wg
36" x 36"	CLASS 3	CLASS 3	CLASS 3	CLASS 3



## Model CCD-GI-AL-200



e.h.price | Gulf

## **Model CCD-GI-AL-200**

## Steel Frame Construction Aluminum Blade

## **Commercial Control Damper - Steel Frame**

#### Model

Commercial Control Damper Steel CCD-GI-AL-200

#### **Features**

- The CCD-GI-AL-200 series Control Dampers have been designed and tested to provide the ultimate in performance features for so phisticated HVAC systems. Streamlined ("airfoil") blades provide reduced turbulence and noise. Inflatable blade edge and jamb seals allow extremely tight sealing without unduly increasing torque requirements.
- The CCD-GI-AL-200 series damper's rigid frame and integrally braced corners provide true damper alignment that greatly resists being installed out of square or out of flat. This insures on site performance equal to test results.
- The CCD-GI-AL-200 series dampers have been leakage tested to AMCA standard 500 with the following results:

- CCD-GI-AL-200 is available in either parallel or opposed blade models.
- Factory installed electric or pneumatic operators are available.

#### Features:

- Operation: Opposed / Parallel, blade movement
- Frame: Hat shaped 20 gauge (1.00 mm) / 16 gauge (1.60 mm) galvanized steel sheet.
- Blade: Aerofoil, double walled, 1.20 mm wall thickness extruded aluminum profile
- Linkage: Internal galvanized steel, stainless steel options are available.
- Bush: Nylon standard, option available with Plastic / Brass.
- Gasket: Rubber foam standard, option available with Neoprene or Silicon fire rated
- Fixing: Integral flange option available Box type / Slip and Clip external flange.
- Option available with frame thickness of up to 12 gauge galvanized steel sheet.



Specifications are correct at time of printing. However, as part of our continuous improvement program, we reserve the right to make further improvements without notice.

PROJECT:		e.h. <sub>[</sub>	Gulf Gulf
ENGINEER:			
CUSTOMER:		Jul / 12	
SUBMITTAL DATE:	SPEC. SYMBOL:	244967	

Jul / 12 244967 SHEET 1 OF 1 Rev.A

All Metric dimensions ( ) are soft conversion.

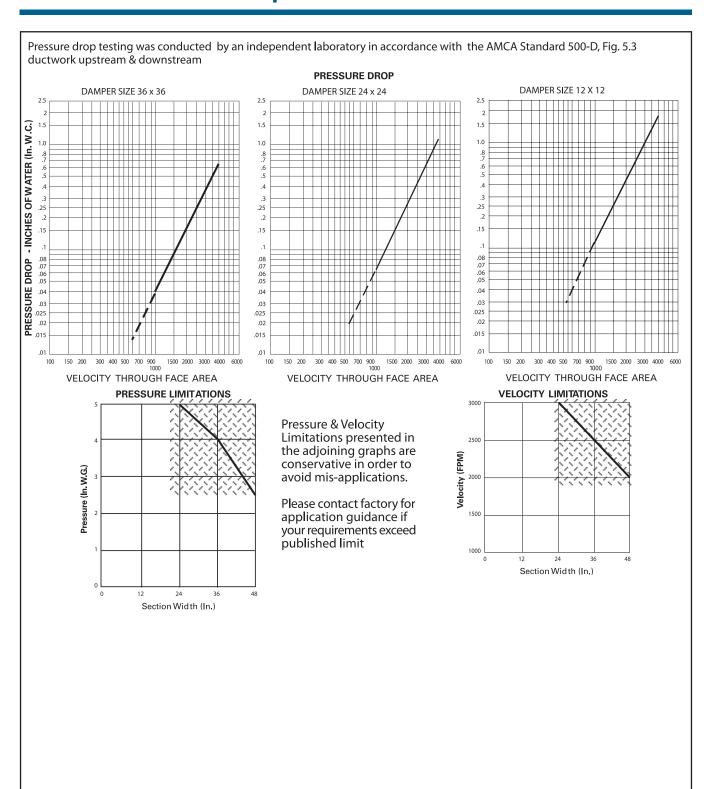
Imperial dimensions are converted to metric and rounded to the nearest millimetre

© Copyright E.H. Price Limited 2012.

## **Model CCD-GI-AL-200**

## Steel Frame Construction Aluminum Blade

## **Commercial Control Damper - Steel Frame**



6



## Model CCD-GI-AL-200-M



e.h.price | Gulf

## **Model CCD-GI-AL-200-M**

## Motorized Shut Off Damper

## Steel Construction Aluminum Blade

## **Commercial Control Damper - Steel**

#### Mode

Commercial Control Damper Steel CCD-GI-AL-200-M

#### **Features**

- The CCD-GI-AL-200-M series Control Dampers have been designed andtestedto provide a reliable cost effective control damper where tight sealing is not of primary importance. (Note: For tight sealing dampers see Model: CCD-GI-AL-200-M).
- The CCD-GI-AL-200-M damper's rigid frame and integrally braced corners provide true damper alignmentthat greatly resists being installed out of square or out of flat.
- The CCD-GI-AL-200-M is available in either parallel or opposed blade models.
- Damper section smaller than 48"w x 12"h (1219mm x 305mm) are furnished with a low profile top and bottom to maximize free areas.
- The CCD-GI-AL-200-M series dampers may be made to accommodate higher than the recommended 2.5" w.g. static pressure. If application involves pressures in excess of 2.5" w.g. or velocities greaterthan 2000 fpm, contact the factory.
- Factory installed electric or pneumatic operators are available.

#### **Standard Construction:**

**Frame:** Roll-formed galvanized steel hat-section with staked corners with integral bracing.

**Blades:** Aerofoil, double wall, 1.20 mm wall thickness, extruded aluminum profile. Minimum width: 4 ¼" (108 mm)

Maximum width: 7 ¼" (184 mm)

**Bearings:** Bronze Oilite. Press fit into frame.

Axles: Square, plated steel.

**Linkage:** Concealed in frame. Linkage bars are 12 ga. thick galvanized steel.

Finish: Mill galvanized.

Max. Temperature: 250°F

Sizes: Minimum size: 5"w x 4"h (127 mm x 102 mm) Maximum size: Single section -48"w x 72"h (1219 mm x 1829 mm) Multiple section - size unlimited

#### **Options:**

- ☐ **Bearings:** Nylon. Press-fit into frame.
- Seals: For pressure sensitive blade edge & jamb seals, see Model CCD-GI-AL-200-M.

#### Notes:

- Dampers fabricated ¼" (6mm) under opening size unless otherwise noted
   Specify parallel or opposed blade
- action.
- All dampers 32" (813 mm) and over are supplied with Jackshafting. (See Jackshafting & Enclosure submittal drawing for details).

Specifications are correct at time of printing. However, as part of our continuous improvement program, we reserve the right to make further improvements without notice.



Roll formed galvanized steel Hat shaped, Z257 GSM, 20 Gauge to 16 Gauge.

**Blade:** Natural anodized extruded aluminum profile, 18 Gauge.

**Blade Seal**: Silicon Rubber, temperature resistance upto 400 C.

**Side Seal**: Stainless steel -302, popup side steel.

**Blade Linkage**: Galvanized steel or Stainless steel.

Blade Spindle: Stainless steel.

PROJECT:		e.h.pr	기다면   Gulf
ENGINEER:			
CUSTOMER:		Jul / 12	
SUBMITTAL DATE:	SPEC. SYMBOL:	244964	

Βεν Δ

All Metric dimensions () are soft conversion.

© Copyright E.H. Price Limited 2012.

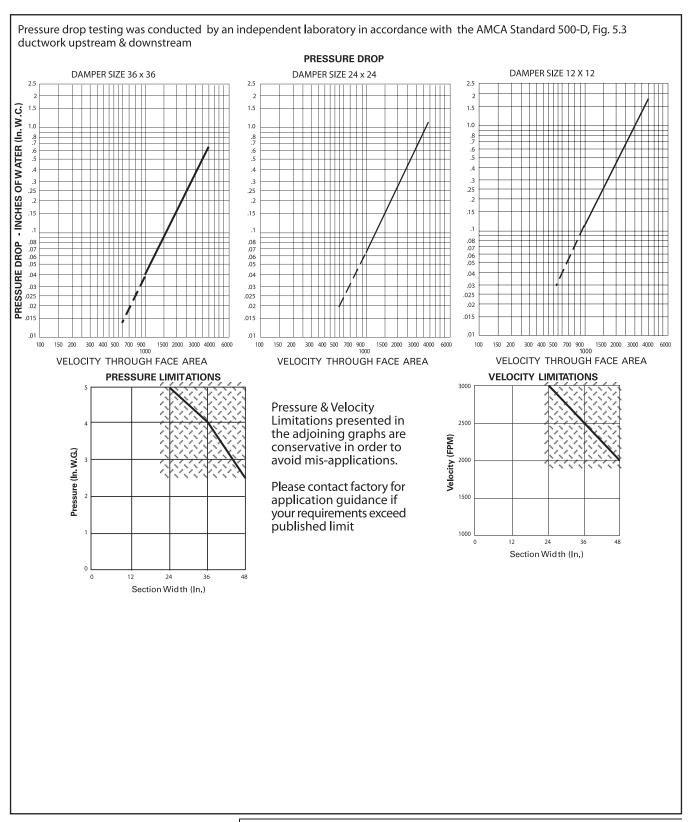


## **Model CCD-GI-AL-200-M**

## **Steel Construction** Aluminum Blade

## Motorized Shut Off Damper

## **Commercial Control Damper - Steel**



# Model CCD-GI-GI-100



e.h.price | Gulf

## **Model CCD-GI-GI-100**

## Commercial Control Damper Steel Frame Construction Galvanized Triple Vee Blade

## **Commercial Control Damper - Steel**

#### Model

Commercial Control Damper Steel **CCD-GI-GI-100** 

#### **Features**

- The CCD-GI-GI-100 series Control Dampers have been designed and tested to provide the ultimate in performance features for sophisticated HVAC systems. Streamlined ("airfoil") blades provide reduced turbulence and noise. Inflatable blade edge and jamb seals allow extremely tight sealing without unduly increasing torque requirements.
- The CCD-GI-GI-100 series damper's rigid frame and integrally braced corners provide true damper alignment that greatly resists being installed out of square or out of flat. This insures on site performance equal to test results.
- CCD-GI-GI-100 is available in either parallel or opposed blade models.
- CCD-GI-GI-100 is available as face and bypass mixing dampers.
- Factory installed electric or pneumatic operators are available.

#### Features:

- Operation: Opposed blade movement.
- Frame: Hat shaped 20 Gauge (1.00 mm) to 16 Gauge (1.50 mm) galvanized steel sheet.
- Blade: 16-18 ga , Triple Vee profile , Roll formed galvanized steel.
- Linkage: Internal galvanized steel.
- Bush: Option available Nylon / Plastic / Brass.
- Gasket: Option available Rubber foam / Neoprene / Silicon fire rated
- Fixing: Box type / Slip and clip / Integral flange / External flange.
- Option available with frame thickness of upto 12 gauge galvanized steel sheet.



#### **Options:**

☐ **Bearings:** Nylon. Press-fit into frame.

☐ Silicone blade edge seals.

#### Notes:

Not recommended with blades running vertically.

Specifications are correct at time of printing. However, as part of our 'continuous improvement program,' we reserve the right to make further improvements without notice.

PROJECT:		e.h.pr	TICE	Gulf
ENGINEER:				
CUSTOMER:		Jul / 12		
SUBMITTAL DATE:	SPEC. SYMBOL:	244970		

All Metric dimensions ( ) are soft conversion.

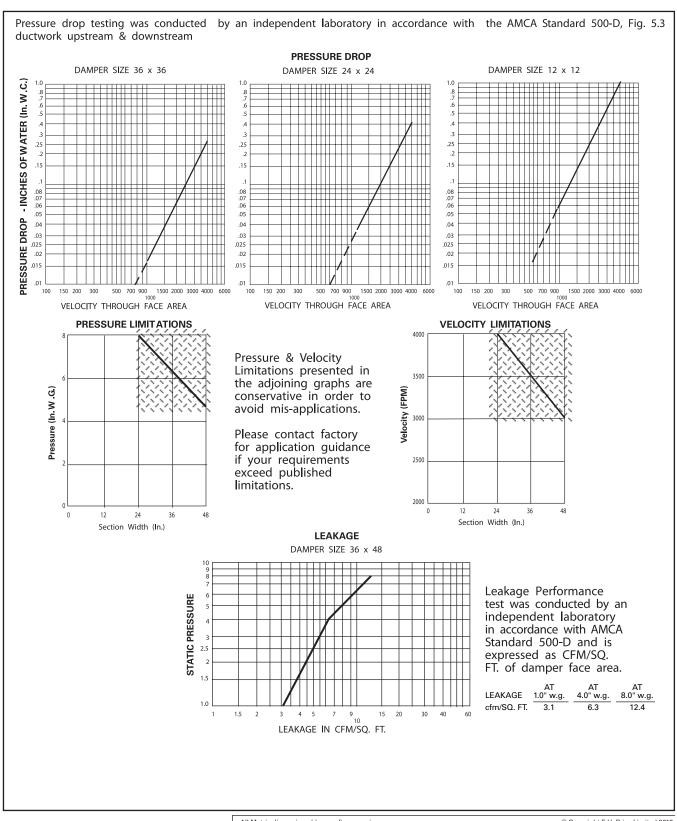
© Copyright E.H. Price Limited 2012.



## **Model CCD-GI-GI-100**

## Commercial Control Damper Steel Frame Construction Galvanized Triple Vee Blade

## **Commercial Control Damper - Steel**



All Metric dimensions () are soft conversion.

Imperial dimensions are converted to metric and rounded to the nearest millimetre.

© Copyright E.H. Price Limited 2012



Product Improvement is a continuing endeavour at Price. Therefore, specifications are subject to change without notice. Consult your Price Sales Representative for current specifications or more detailed information. Not all products may be available in all geographic areas. All goods described in this document are warranted as described in the Limited Warranty shown at **priceindustries**.com. The complete Price product catalog can be viewed online at **priceindustries**