KAD®

KAD AIR CONDITIONING

VOLUME CONTROL DAMPERS

K-VCD-GI-200

ISO 9001:2015
Certified Company

ISO 14001:2015
Certified Company

ISO 45001:2015
Certified Company

KAD AIR CONDITIONING

P.O. Box: 5389, Factory: 1, Dubai Industrial City, Saih Shuaib 4, Dubai, UAE. Tel: +971 4 586 8900 Fax: +971 4 586 8901

Email: info@kadairconditioning.com Web: www.kadairconditioning.com

K-VCD-GI-200 - Galvanized Steel Blades - Manual Quadrant

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 againstunwanted ingress.

KAD Airconditioning 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.

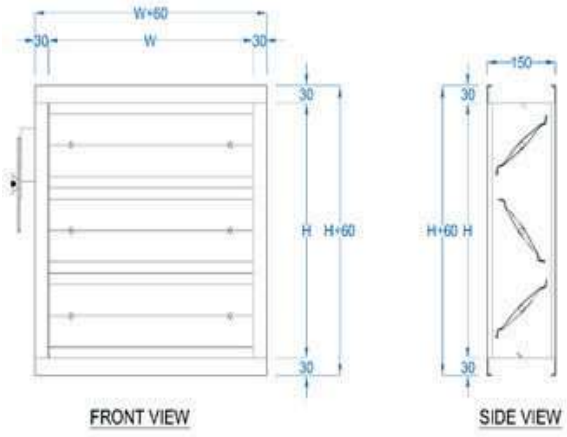
DESCRIPTION

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

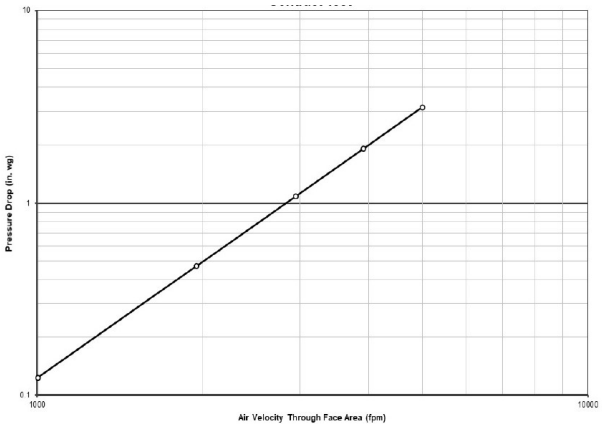
Pressure Drop - Intake

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

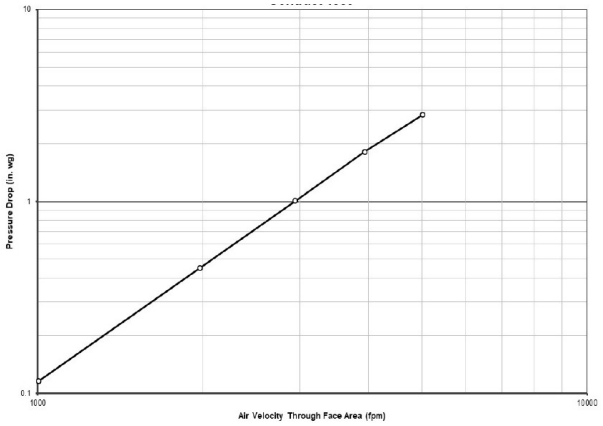
Pressure Drop – Exhaust

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

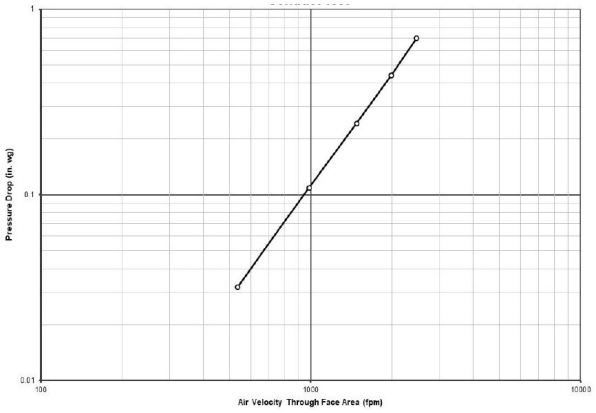
The maximum static pressure drop for specified air flow at standard air density



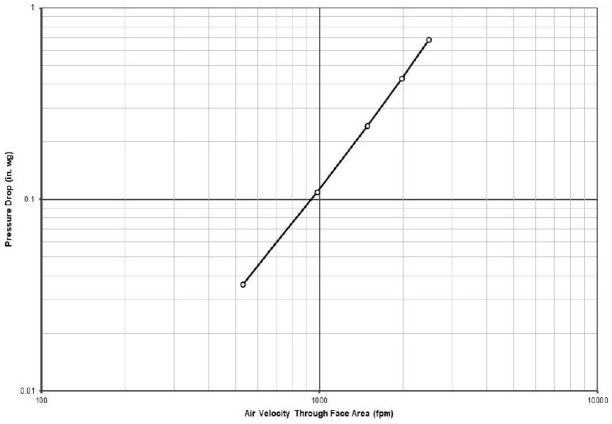
12" x 12"	
Velocity (fpm)	ΔP (In. wg)
5008	3.14
3910	1.92
2951	1.09
1946	0.47
1003	0.12



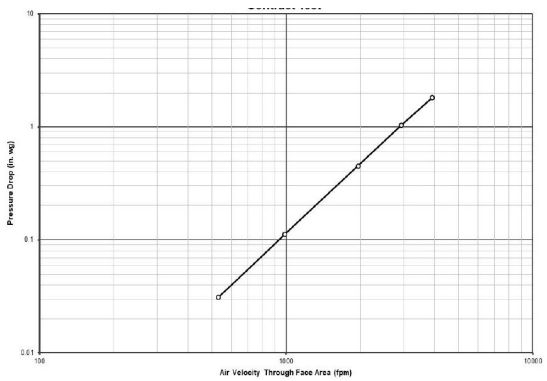
12" x 12"	
Velocity (fpm)	ΔP (In. wg)
5018	2.83
3936	1.81
2946	1.01
1976	0.45
1003	0.12



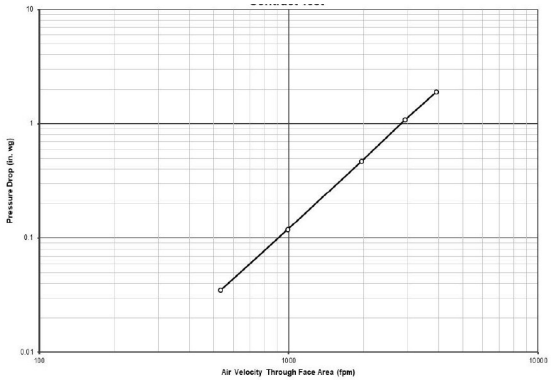
24" x 24"	
Velocity (fpm)	ΔP (In. wg)
2467	0.7
1984	0.44
1479	0.24
986	0.11
536	0.03



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

Ref: K-VCD/R1/15 October 2020

KAD AIR CONDITIONING

P.O. Box: 5389, Factory: 1, Dubai Industrial City, Saih Shuaib 4,

Dubai, UAE.

Tel: +971 4 586 8900 Fax: +971 4 586 8901

Email: info@kadairconditioning.com Web: www.kadairconditioning.com