

# GC7ID35H

### STANDARD MATERIALS AND CONSTRUCTION

**FRAME:** 16-GA. galvanized steel.

**BLADE:** Stationary blades made from 18-GA. galvanized steel.  
Adjustable blades made from 18-GA. galvanized steel, double thickness, 1" thick with 8 lbs. density mineral wool insulation, sandwiched between metal skins separated by a thermal break and mechanically fastened together. Blades are approximately 3" on centers.

**LOUVER FACE:** Full head and sill with blades and jambs contained within.

**LINKAGE:** Brackets are 12-GA. Zinc plated machined steel. Pivots are .50" dia. machined steel, Zinc plated. Pivots rotate in a Celcon bearing. A .312" dia. aluminum linkage rod is locked to the pivot by a 1/4 - 20 set screw with an epoxy patch.

**SEALS:** Neoprene adhesive applied to blade edges and jambs.

**SHAFTS:** 1/2" dia. plated steel stub.

**BEARINGS:** 1/2" dia. bore oilite bronze flanged sleeve. Press fit into frame.

**SCREEN:** (Secured to the exterior)  
1/2" flattened aluminum (.051"),  
-or- 1/2" sq. mesh 19-GA. galvanized steel (.041"),  
-or- 1/16" aluminum mesh insect screen (.011" dia.)

**FINISH:** Mill.

### OPTIONS

Finishes - Enamels, Epoxies, etc.

Other screens also available.

Materials - 304 or 316 Stainless steel.

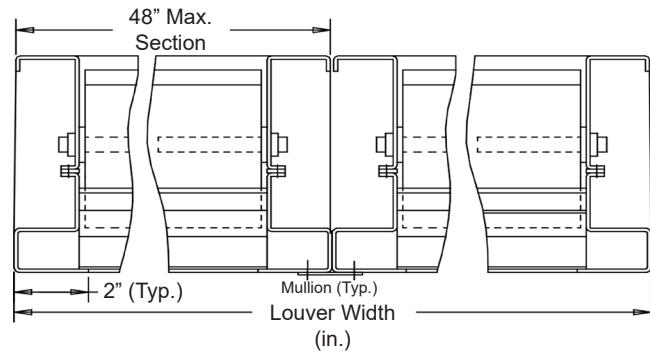
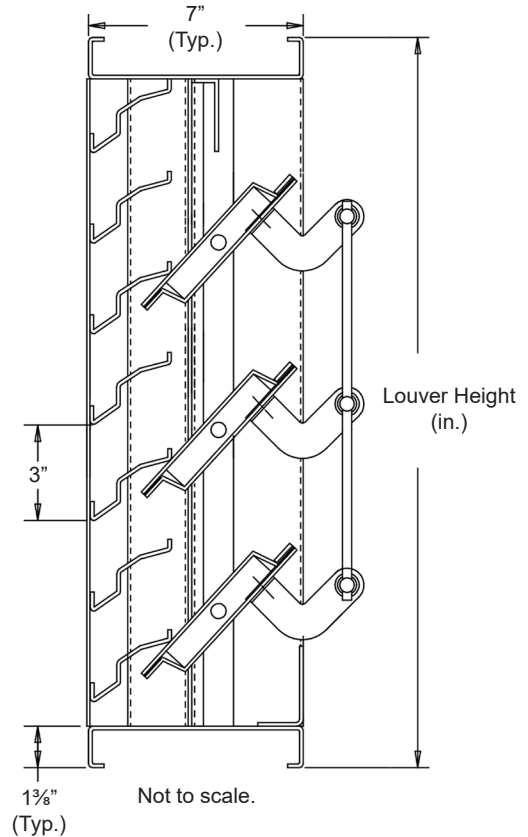
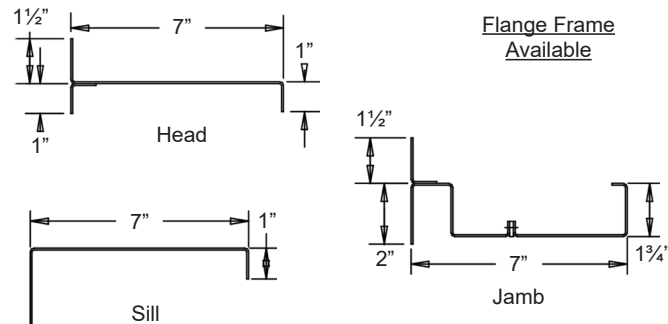
Actuators - Electric, Pneumatic, Manual, etc.

### NOTES

- 1/2" nominal deduction will be made to the opening size given.
- Approximate shipping weight is 11 lbs./sq.ft.

### LOUVER SIZES

Min Panel	Max Single Panel
12"W x 14"H	48"W x 96"H



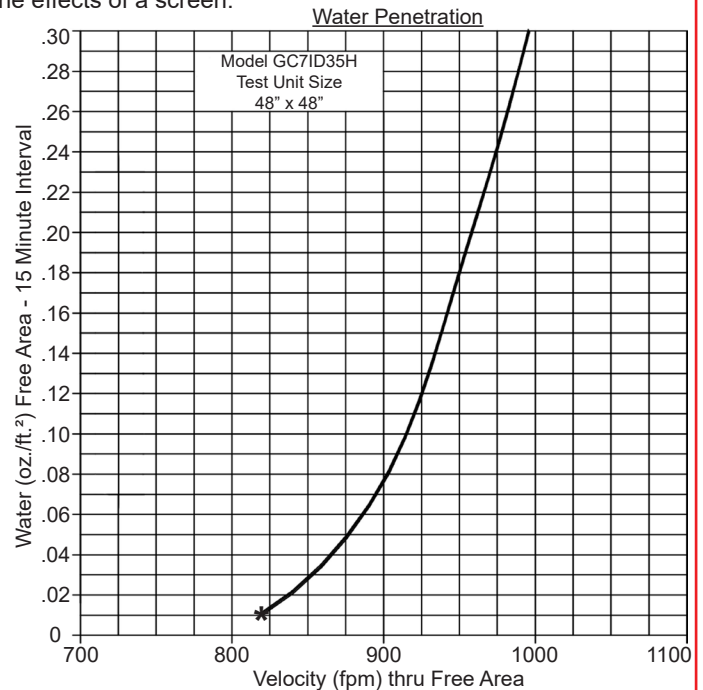
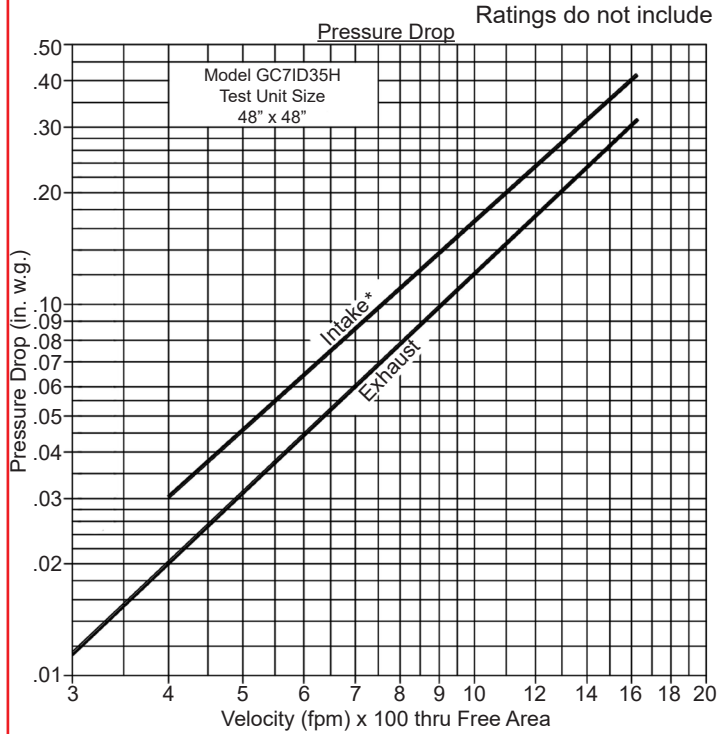
In the interest of product development, Airline Louvers reserves the right to make changes without notice.

Item #	Qty	Width	Height	Width	Height	Mullion	Type	Location	Union Made
		Opening Size		Louver Size			Screens		
Arch. / Eng. :						EDR:		ECN:	Job:
Contractor:									
Project:						Date:	DWN:	DWG:	



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Pressure Drop: .17 in. w.g. at 1000 fpm (intake) | .12 in. w.g. at 1000 fpm (exhaust)  
 Free Area: 7.26 sq.ft. = 45.4% for 48"W x 48"H sample tested in accordance with AMCA Standard 500-L  
 Beginning Point of Water Penetration: 841 fpm



841 (FPM) Beginning Point of Water Penetration.

		Free Area (sq. ft.)						
		Width (in.)						
		12"	18"	24"	30"	36"	42"	48"
Height (in.)	12"	.22	.38	.54	.70	.85	1.01	1.17
	24"	.61	1.04	1.47	1.91	2.34	2.77	3.20
	36"	1.00	1.70	2.41	3.11	3.82	4.52	5.23
	48"	1.39	2.37	3.34	4.32	5.30	6.28	7.26
	60"	1.77	3.03	4.28	5.53	6.78	8.04	9.29
	72"	2.16	3.69	5.21	6.74	8.27	9.79	11.32
	84"	2.55	4.35	6.15	7.95	9.75	11.55	13.35
	96"	2.94	5.01	7.08	9.16	11.23	13.30	15.38

Acoustic Values	
Octave (Band / Hz)	Noise Reduction (dB)
1 / 63	9
2 / 125	8
3 / 250	7
4 / 500	8
5 / 1000	10
6 / 2000	15
7 / 4000	15
8 / 8000	16

Thermal Characteristics

Insulating factors for the standard blade construction:

R-Value: 3.9

U-Factor: .26 BTU per hour per sq. ft. per degree F.

The above values are based on calculations considering face area of the louver only. This does not include frames. Insulation of the frame and caulking louver into opening shall be by others.

\*Intake air converted to standard air density. Tested to AMCA Standard 500-L, Figure 5.5.

	Attenuation							
	Octave Band Center Frequency (Hz)							
	1 (63)	2 (125)	3 (250)	4 (500)	5 (1000)	6 (2000)	7 (4000)	8 (8000)
10'	15	14	13	14	14	17	18	20
50'	29	28	27	28	28	31	32	34
100'	35	34	33	34	34	37	38	40
200'	41	40	39	40	40	43	44	46
500'	49	48	47	48	48	51	52	54
1000'	55	54	53	54	54	54	57	60

Attenuation chart above is a combination of the louver sound transmission loss and the reduction of sound energy as a function of distance from the noise source.