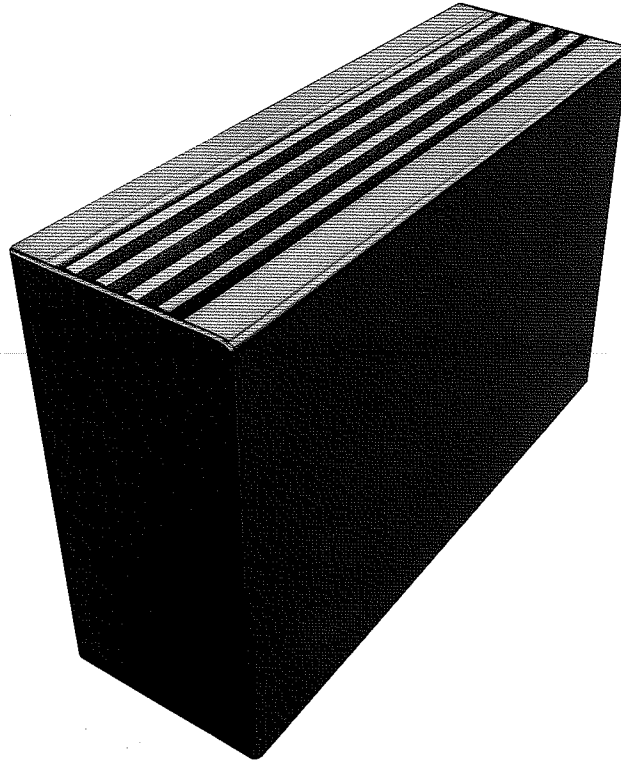




CUSTOM AIR CABINETS



Built of heavy 14 gauge galvanealed steel in custom sizes for supply or return of air at building perimeter. Easily adjustable damper provides an even air discharge along the entire length of the cabinet as well as air quantity control. A flush bar grille and special butt joints provide a totally clean installation. Grille of extruded aluminum in clear anodized finish available in 0, 15 or 30 degrees, 2-1/2 inches less in width than cabinet.

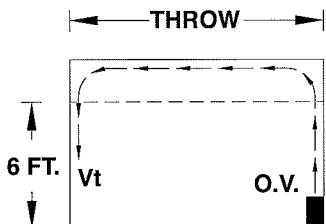
Standard construction consists of extruded linear grilles, in four bar styles, at 0, 15 or 30 degrees flush with top of unit. Cabinets have full backs and bottoms and flush butt joints. Finishes include prime coat or stock enamel finish of white, tan, grey or black.

OPTIONS

- A. Custom height, width and length as required. Maximum length 8 ft. in one section.
- B. Cabinets available in aluminum or stainless steel 12, 14, 16 or 18 gauge.
- C. Special finishes and colors.
- D. Insulation of fiberglass or sprayed-on mastic.
- E. Toe space.
- F. Screen under grille to catch debris.
- G. Inside and outside corners.

SUPPLY AIR CAPACITY TABLE

CFM Per Linear Foot of Grille	Cabinet Width	Grille Width	② Throw in Ft.	S.P. Loss in In. H ₂ O Blade Angle		① NC	Outlet Velocity F.P.M. (O.V.) Blade Angle	
				0 & 15	30		0 & 15	30
20	4.0"	1.5"	2'	.02	.02	<20	510	565
30	4.0"	1.5"	3'	.06	.08	24	760	855
	4.5"	2.0"	2'	.02	.02	21	485	535
40	4.0"	1.5"	4'	.10	.14	29	1,010	1,140
	4.5"	2.0"	3'	.04	.06	26	645	720
	5.0"	2.5"	2'	.02	.02	21	470	520
50	4.0"	1.5"	7'	.18	.24	29	1,260	1,430
	4.5"	2.0"	5'	.06	.08	26	800	900
	5.0"	2.5"	4'	.04	.06	21	585	650
	5.5"	3.0"	3'	.02	.02	<20	450	495
60	4.5"	2.0"	8'	.10	.14	29	960	1,080
	5.0"	2.5"	7'	.04	.06	26	700	785
	5.5"	3.0"	5'	.02	.03	21	540	600
	6.5"	4.0"	4'	.01	.02	<20	380	415
70	4.5"	2.0"	10'	.12	.16	29	1,120	1,265
	5.0"	2.5"	9'	.06	.08	31	820	925
	5.5"	3.0"	6'	.04	.06	26	670	750
	6.5"	4.0"	5'	.02	.02	<20	445	490
80	4.5"	2.0"	12'	.16	.20	31	1,285	1,440
	5.0"	2.5"	11'	.08	.10	31	930	1,050
	5.5"	3.0"	8'	.06	.08	26	710	795
	6.5"	4.0"	7'	.02	.02	21	505	560
90	5.0"	2.5"	13'	.10	.14	29	1,040	1,175
	5.5"	3.0"	11'	.08	.10	29	795	895
	6.5"	4.0"	8'	.02	.04	26	560	625
	7.5"	5.0"	6'	.01	.02	21	460	510
100	5.0"	2.5"	16'	.12	.16	29	1,160	1,315
	5.5"	3.0"	12'	.08	.10	29	885	1,000
	6.5"	4.0"	10'	.04	.06	26	630	705
	7.5"	5.0"	8'	.02	.02	21	510	565
120	5.5"	3.0"	16'	.12	.16	29	1,060	1,200
	6.5"	4.0"	12'	.06	.08	29	755	845
	7.5"	5.0"	10'	.04	.06	26	610	670
	8.5"	6.0"	8'	.02	.02	21	490	540
140	5.5"	3.0"	19'	.16	.22	34	1,230	1,400
	6.5"	4.0"	16'	.08	.10	31	880	990
	7.5"	5.0"	13'	.04	.06	26	710	800
	8.5"	6.0"	10'	.02	.02	21	570	635
160	6.5"	4.0"	18'	.10	.14	34	1,000	1,130
	7.5"	5.0"	15'	.06	.08	31	810	915
	8.5"	6.0"	13'	.04	.06	26	650	725
	10.5"	8.0"	9'	.02	.02	21	470	520
180	6.5"	4.0"	21'	.14	.18	34	1,120	1,265
	7.5"	5.0"	18'	.08	.10	31	910	1,025
	8.5"	6.0"	16'	.06	.08	26	735	825
	10.5"	8.0"	12'	.04	.06	21	530	590

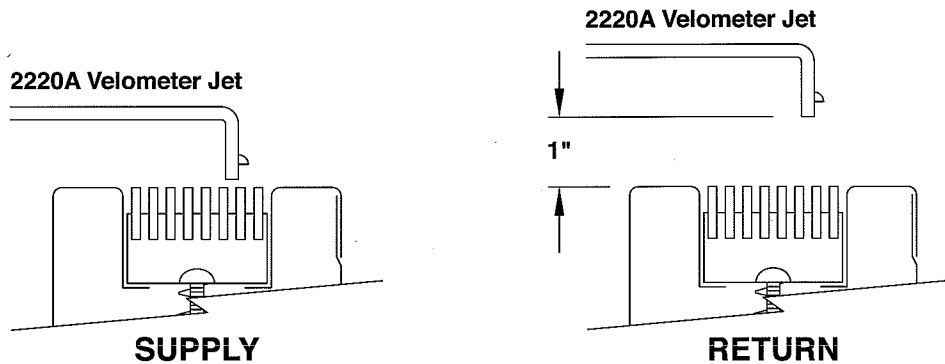


- ① NC based on (LW) Re⁻¹⁰ with 18 dB room attenuation - supply and return.
- ② Throw is based on terminal velocity of 100 F.P.M. at 6 ft. level and 9 ft. ceiling.

Vt = 75	Vt = 100	Vt = 125
x 1.5	x 1	x 0.5

RETURN AIR CAPACITY TABLE

Cabinet Width	Grille Width	Blade Angle	C.F.M. Per Linear Foot of Grille			
			NC-25 -.04" S.P.	NC-30 -.12" S.P.	NC-35 -.20" S.P.	A _k
4.0"	1.5"	0 or 15	24	40	58	.13
		30	21	38	46	.12
4.5"	2.0"	0 or 15	38	65	95	.18
		30	37	58	80	.17
5.0"	2.5"	0 or 15	49	90	120	.23
		30	46	75	105	.22
5.5"	3.0"	0 or 15	63	115	150	.27
		30	57	102	125	.25
6.5"	4.0"	0 or 15	88	160	210	.34
		30	77	135	180	.33
7.5"	5.0"	0 or 15	115	210	270	.41
		30	100	175	230	.39
8.5"	6.0"	0 or 15	140	260	330	.46
		30	122	210	275	.44
10.5"	8.0"	0 or 15	195	350	450	.57
		30	160	300	375	.54



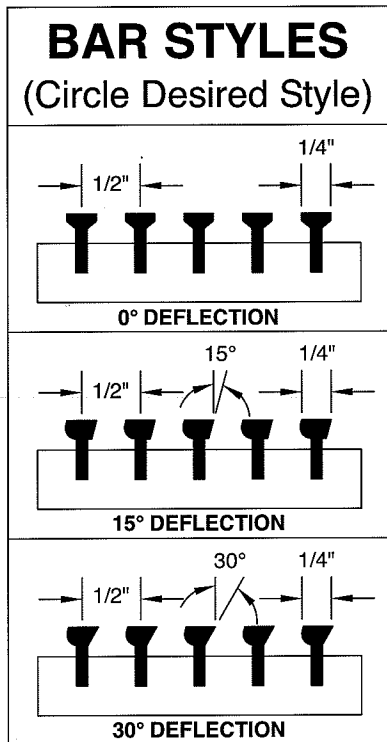
AIR MEASUREMENT

$$CFM = A_k \times \text{Length of Cabinet in Feet} \times \text{Average Jet Velocity}$$

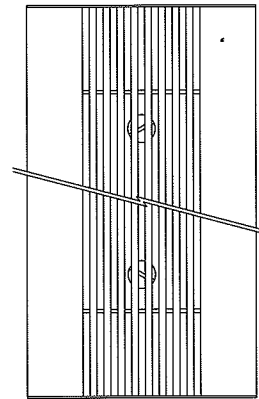
A_k AREA FACTORS FOR SUPPLY CABINET

Blade Angle	Cabinet Width	4.0"	4.5"	5.0"	5.5"	6.5"	7.5"	8.5"	10.5"
	Grille Width	1.5"	2.0"	2.5"	3.0"	4.0"	5.0"	6.0"	8.0"
0 or 15 Degrees		.04	.06	.09	.11	.16	.20	.25	.35
30 Degrees		.03	.05	.08	.09	.14	.17	.21	.30

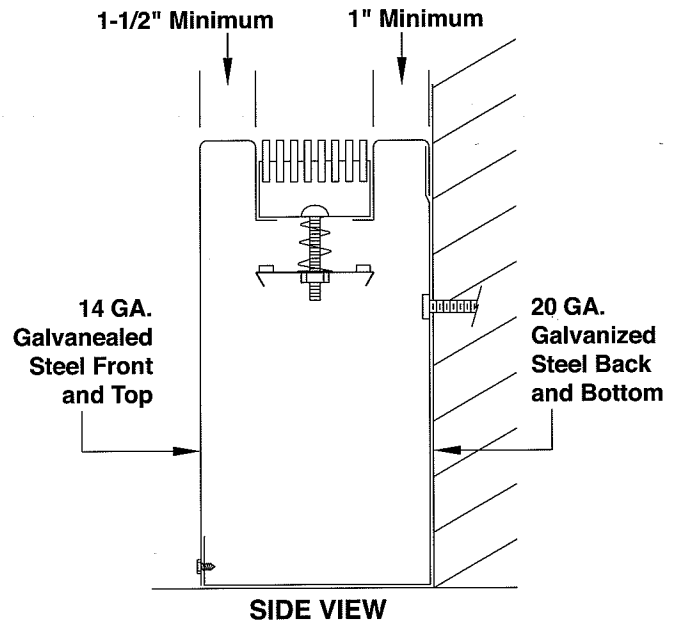
CUSTOM AIR CABINET SUBMITTAL DRAWING



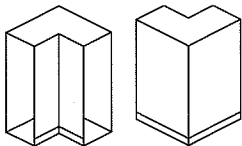
Extruded Aluminum Grilles
Clear Anodized Finish Standard
All Above Bar Styles Are Pencil-Proof



PLAN VIEW

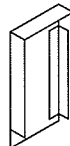


INSIDE / OUTSIDE CORNER



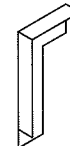
- Use for transfer of air around 90° inside (IC) or outside(OC) corners

END CAP



- Use to terminate run
- Integral with top/front
- Standard on both ends

WALL TRIMMER




- Use to trim at intersecting walls
- *Designate left or right*

Qty.	Length	No. of Sections	Cabinet Height	Cabinet Width	Grille Width	Gauge Steel	Cabinet Finish	Grille Finish	Tag

Enclose sketch with order to show corners, end caps and lengths of runs.
NOTE: Field cut openings should be on maximum 6 ft. centers.

To maintain KEES' policy of continuous product improvement, we reserve the right to change prices, specifications, ratings or dimensions without notice or obligation.

Project				Location					
Engineer					 KEES INCORPORATED 400 S. Industrial Dr. • P.O. Box L Elkhart Lake, WI 53020 Phone: (920) 876-3391 Fax: (920) 876-3065 Website: www.kees.com				
Architect			Dwg. No.	AB					
Contractor			Date	10/05					