

MODEL: DDV
BAR TYPE DOUBLE DEFLECTION GRILLES AND REGISTERS

LISTED DUCT SIZE (INCHES)	ALTERNATE SIZE (INCHES)	CORE AREA (SQ. FT.)	AK FACTOR	NECK VELOCITY			300	400	500	600	700	800	1000	1200	1400		
				VP	TP	TP	.006	.010	.016	.022	.031	.040	.051	.062	.080		
				0°	22 1/2°	45°	.015	.026	.041	.059	.081	.106	.135	.165	.208	.258	.324
				0°	22 1/2°	45°	.017	.030	.047	.068	.093	.122	.160	.204	.254	.312	.373
				TP	45°												
6" X 6"	8" X 4"	0.20	.14	CFM	60	80	100	120	140	160	200	240	280				
				NC	-	-	-	14	19	23	29	35	40				
				0°	5-7-13	7-9-16	8-12-18	10-14-20	11-15-21	12-16-23	15-18-25	16-20-27	17-21-30				
				22 1/2°	4-8-10	6-7-13	6-10-14	8-11-16	9-12-17	10-13-18	12-14-20	13-16-22	14-17-24				
8" X 6"	10" X 5" 12" X 4"	0.27	.18	CFM	81	108	135	162	189	216	270	324	378				
				NC	-	-	10	15	20	24	30	36	41				
				0°	5-8-15	8-12-18	10-14-20	11-16-23	13-18-25	15-19-27	17-21-30	18-23-32	19-24-36				
				22 1/2°	4-8-12	6-10-14	8-11-16	9-13-18	10-14-20	12-15-22	14-17-24	14-18-26	15-19-28				
10" X 6"	12" X 5" 16" X 4"	0.35	.24	CFM	105	140	175	210	245	280	350	420	490				
				NC	-	-	11	16	21	25	31	37	42				
				0°	6-9-18	9-13-21	10-16-24	12-19-26	15-20-28	17-21-30	20-23-33	21-25-36	22-27-39				
				22 1/2°	5-7-14	7-10-17	8-13-19	10-15-21	12-16-22	14-17-24	16-18-26	17-20-29	18-22-31				
8" X 8"	14" X 5"	0.38	.26	CFM	114	152	190	228	266	304	380	456	532				
				NC	-	-	12	17	22	26	32	38	43				
				0°	6-9-19	9-14-22	11-16-25	13-19-27	16-21-30	18-22-32	19-24-34	21-28-38	23-29-41				
				22 1/2°	5-7-15	7-11-18	9-13-20	10-15-22	13-17-23	14-18-26	15-19-27	17-21-30	18-22-32				
12" X 6"	18" X 4"	0.42	.29	CFM	126	168	210	252	294	336	420	504	588				
				NC	-	-	12	17	22	26	32	38	43				
				0°	6-9-19	9-14-22	11-16-25	13-19-27	16-21-30	18-22-32	19-24-34	21-28-38	23-29-41				
				22 1/2°	5-7-15	7-11-18	9-13-20	10-15-22	13-17-23	14-18-26	15-19-27	17-21-30	18-23-33				
14" X 6"	10" X 8"	0.50	.34	CFM	150	200	250	300	350	400	500	600	700				
				NC	-	-	13	18	23	27	33	39	44				
				0°	6-11-20	10-15-23	12-18-25	15-20-28	18-22-31	19-23-33	21-25-36	23-28-40	25-31-43				
				22 1/2°	5-9-16	8-12-18	10-14-20	12-16-22	13-18-25	15-18-26	17-20-29	18-22-32	20-25-34				
12" X 8"	16" X 6" 24" X 4"	0.58	.39	CFM	174	232	290	348	406	464	580	696	812				
				NC	-	-	14	19	24	28	34	40	45				
				0°	7-11-21	10-15-24	12-19-27	15-21-30	17-23-32	20-24-34	22-27-38	24-30-42	26-32-46				
				22 1/2°	6-9-17	8-12-19	10-15-22	12-17-24	14-18-26	16-19-27	18-22-30	19-24-34	21-26-36				
10" X 10"	14" X 7" 26" X 4"	0.61	.41	CFM	183	244	305	366	427	488	610	732	854				
				NC	-	-	14	19	24	28	34	40	45				
				0°	7-11-21	10-16-24	13-19-28	16-21-30	17-23-32	20-24-36	23-28-39	24-30-43	27-32-46				
				22 1/2°	6-9-17	8-13-19	10-15-22	13-17-24	14-18-26	16-19-28	18-22-31	19-24-34	22-28-37				
18" X 6"	14" X 8" 28" X 5" 36" X 4"	0.65	.44	CFM	195	260	325	390	455	520	650	780	910				
				NC	-	-	15	20	25	29	35	41	46				
				0°	7-12-22	11-16-25	13-20-28	16-22-32	18-24-34	21-25-36	27-29-40	25-32-45	28-34-48				
				22 1/2°	6-10-18	8-13-20	10-16-23	13-18-25	14-19-27	17-20-29	19-23-32	20-26-36	22-27-38				
				CFM													
				NC													
				0°													
				45°													

FORMERLY MODELS K-130, K-135

CFM Cubic feet per minute
FPM Feet per minute velocity
TP Total pressure - inches w.g.
VP Velocity pressure - inches w.g.
T Throw in feet
NC Noise criteria (values) based on 10 dB room absorption, re 10 (to 12th power) watts.

Performance notes:

- Performance data is based on double deflection grille with opposed blade damper (register).
- 0°, 22 1/2° and 45° represent vertical blade deflection angles and horizontal spread.
- Throw values are given for terminal velocities of 150, 100 and 50 fpm under isothermal conditions.
- Additional performance notes and correction factors for various models and settings may be found on page 36.
- Data derived from tests conducted in accordance with ANSVASHRAE Standard 70-1991.