



700 DVD-4S Series																				
SIZE	VELOCITY		400			500			600			700			800			1000		
	DUCT PT.		0.038			0.108			0.155			0.22			0.285			0.438		
6x6	Eff. Area .09 ft ²	CFM	100			125			150			150			175			200		
		CFM x/y	19			25			31			37			44			50		
		NC	<20			<20			20			20			25			25		
		Throw (ft.)	6.5	7	7.5	7	8	9	8	9	10	8.5	10	11.5	9.5	11	12.5	9	11	13
8x8	Eff. Area .17 ft ²	CFM	127			169			212			254			296			338		
		CFM x/y	32			42			53			63			74			84		
		NC	<20			<20			20			20			25			25		
		Throw (ft.)	6.5	7	7.5	7	8	9	8	9	10	8.5	10	11.5	9.5	11	12.5	9	11	13
10x10	Eff. Area .26 ft ²	CFM	208			277			347			416			485			554		
		CFM x/y	52			69			86			103			121			138		
		NC	<20			<20			20			20-25			25			25-30		
		Throw (ft.)	9	10	11	10	11	12	11	12	13	12	14	16	13	15	17	13	16	19
12x12	Eff. Area .38 ft ²	CFM	300			400			500			600			700			800		
		CFM x/y	75			100			125			150			175			200		
		NC	<20			<20			20			20-25			25			25-30		
		Throw (ft.)	9	10	11	10	11	12	11	12	13	12	14	16	13	15	17	13	16	19
14x14	Eff. Area .52 ft ²	CFM	406			544			679			813			948			1280		
		CFM x/y	102			136			170			204			237			271		
		NC	<20			20			25			25-30			30			30-35		
		Throw (ft.)	10	11	12	11.5	13	14.5	12.5	14	15.5	13	15	17	13.5	16	18	14.5	18	22
16x16	Eff. Area .69 ft ²	CFM	532			713			889			1066			1243			1425		
		CFM x/y	133			178			222			267			311			356		
		NC	<20			20			25			25-30			30			30-35		
		Throw (ft.)	11.5	13	14.5	13.5	15	17	16	18	20	16	19	22	17	20	23	18	22	26
18x18	Eff. Area .88 ft ²	CFM	675			900			1125			1350			1575			1800		
		CFM x/y	168			225			281			337			394			450		
		NC	<20			20			25			25-30			30			30-35		
		Throw (ft.)	12.5	14	15.5	14.5	16	18	16	18	20	17	20	23	18	21	24	18	23	28

ENGINEERING FOOTNOTES

ENGINEERING FOOTNOTES FOR SHOEMAKER DIFFUSERS & GRILLES:

SIZE: Nominal size or the duct opening / neck size.

EFFECTIVE AREA: The space between the blades actually utilized by the air.

VELOCITY: The actual velocity of the air through the blades measured with a velometer in at least 4 places.

FILTERVELOCITY: Some velocities higher than 500 FPM will decrease filter effectiveness and possibly blow off agglomerates.

Special Note: The 920FG table gives the air flow for different filter grilles at 2 CFM per square inch of filter with allowance for the blockage caused by the grille.

DUCT PT: The total pressure behind the diffuser in the duct forcing that air through the diffuser.

DUCT PS: The static pressure in the duct directly behind the grille or neck of the T-Bar grille. The static load on the fan chargeable against that grille. Velometer readings are taken between grille vanes giving actual velocity.

THROW: The throws noted in the tables are the distances from the diffuser to where the air stream velocity has dropped to not under 100/75/50 F.P.M.

NOISE CRITERIA:

NC "A" scale.

- (1) Below NC25 extremely quiet.
- (2) Below NC30 Quiet Office.
- (3) Below NC35 Conference Rooms; normal voice 10-30 ft.
- (4) Below NC40 Conference Rooms; 6-12 ft. normal voice.
- (5) NC45 Conference Rooms; 3-6 ft. normal voice.

NOISE CRITERIA addition for RD series:

The NC values are based on a room absorption of 18 db, re 10-13 watts.

NOISE CRITERIA addition for OBR – Damper Throttling:

- ¼ Closed – 5
- ⅓ Closed – 10
- ½ Closed – 15