Model KDF
Square Diffusers

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Khalid Manufacturing Company

Introduction

The performance objective of a ceiling air Diffuser is to deliver conditioned air into an occupied space in a quiet draft free manner.

The performance efficiency of a particular diffuser design is usually judged by the diffuser's ability to rapidly dissipate the air velocities and temperature differential of the supply air before it enters the occupied space.

Many Models are developed by KMC to meet air distribution and architectural requirements.

Application

- Versatile Supply Air Diffuser for constant or variable air volume cooling, heating or ventilating
- Designed for high capacity, KMC Model Series "KD" can supply large volumes of air at low sound levels and pressure drops.
- Directed air diffusion for space coverage with great flexibility in space layout, geometry, and diffuser location.
- Return Air use to maintain matched appearance

Product Features

- 5 "application specific" air distribution patterns – 1 way, 2 way opposite, 2 way corner, 3 way, and 4 way
- Core is removable to facilitate access to duct / damper
- Concealed core attachment – NO screws

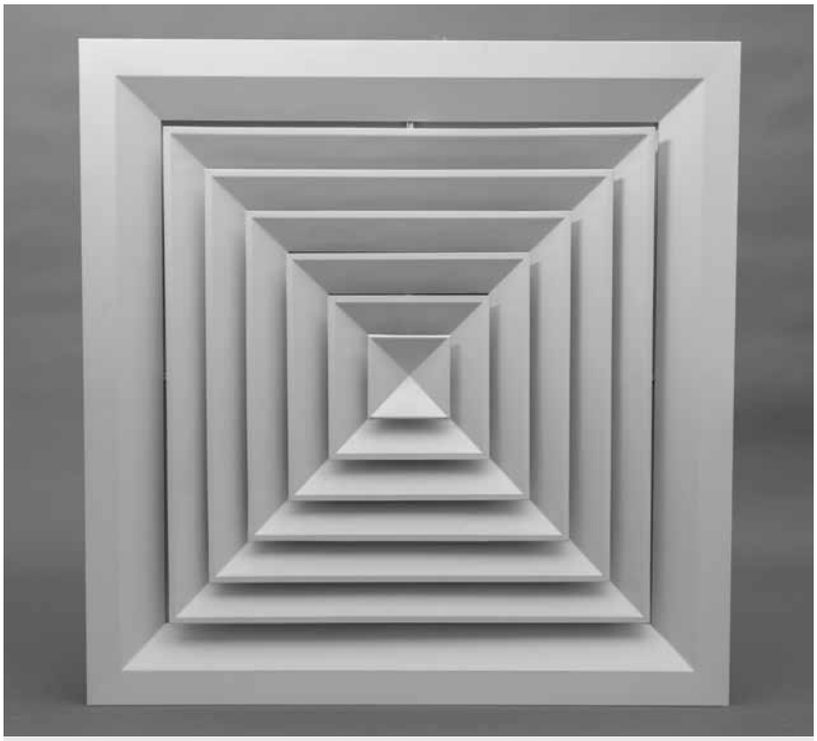
Construction

- Frame & inner cores are made of Extruded Aluminum Profiles of 6063.T6 Alloy, which allow the diffusers to be suitably used for both internal & external applications.
- Available in wide variety of sizes ranging from 150mmx150mm up to 600mmx600mm available in 75mm increments.
- The core is held in place & fixed to the frame by. lock sets.
- Foam Gasket seal around the back of the frame as option to avoid air leakage.

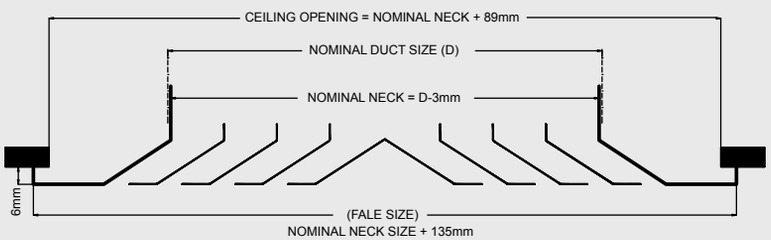
Selection Procedure :

Selections can be made by means of straight read-off from the " Performance Tables"

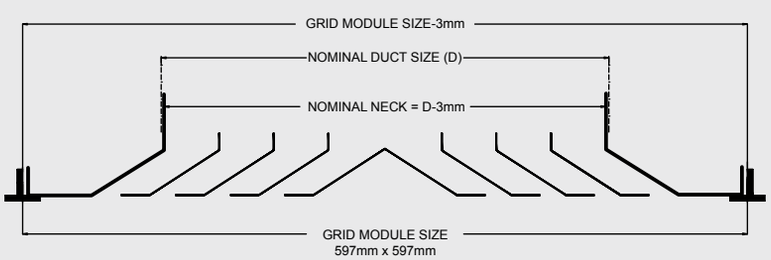
- Determine air diffusion pattern required and air volume flow rate per outlet.
- Establish the required throw (Refer Notes for Throw Pattern)
- Opposing Diffusers : Maximum Throw for each diffuser should be no more than 75% of half of the distance between them.
- Select the diffuser based on required Air flow rate against the limiting pressure drop and sound level requirements.



Model KDF - Surface Mounted



Model KDP - Lay in T-Bar



Product Selection Check List

- Select Inlet (L X W) Size based on desired performance requirements.
- Select face size based on ceiling module (Lay-in Application Only)
- Select core style based on application.
- Select volume control accessories, if desired (OBD)
- Select finish

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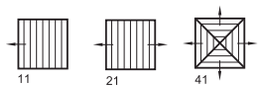
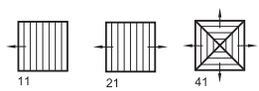


Performance Data

NECK SIZE (mm)		NECK	Neck Velocity	1.0			1.5			2.0			2.5			3.0			3.5			4.0			4.5		
W	H	m2	Pt	2.5			5			10			15			22.5			30			40			50		
			CMH	85			119			153			204			238			272			323			357		
			NC	<20			<20			<20			<20			<20			22			26			29		
150	150	0.023	4 Way - 41 Pattern	0.9	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
			2 way - 21 Pattern	0.9	1.5	2.4	1.5	2.1	3.0	1.8	2.4	3.4	2.1	2.7	3.7	2.4	3.0	4.0	2.4	3.0	4.3	2.7	3.4	4.9	3.0	3.7	4.9
			1 way - 11 Pattern	1.5	2.1	3.4	2.1	3.0	4.0	2.7	3.4	4.6	3.0	3.7	5.5	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.0	4.9	7.0
			CMH	187			272			374			459			544			646			731			833		
			NC	<20			<20			<20			<20			22			26			30			33		
225	225	0.051	4 Way - 41 Pattern	1.2	1.8	2.7	1.8	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	3.0	3.7	5.2	3.0	3.7	5.5	3.4	4.0	5.8
			2 way - 21 Pattern	1.5	2.1	3.7	2.1	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.3	5.2	7.3	4.6	5.5	7.6
			1 way - 11 Pattern	2.1	3.0	5.2	3.0	4.3	6.1	4.3	5.2	7.3	4.6	5.8	7.9	5.2	6.1	8.8	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.6	11.0
			CMH	323			493			663			816			986			1156			1326			1479		
			NC	<20			<20			<20			<20			24			28			32			35		
300	300	0.090	4 Way - 41 Pattern	1.5	2.1	3.7	2.4	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.3	5.2	7.3	4.3	5.5	7.6
			2 way - 21 Pattern	1.8	2.7	4.9	3.0	4.3	5.8	4.0	4.9	6.7	4.3	5.5	7.6	4.9	5.8	8.2	5.2	6.4	9.1	5.5	6.7	9.8	5.8	7.3	10.4
			1 way - 11 Pattern	2.7	4.0	6.7	4.3	5.8	8.2	5.5	6.7	9.8	6.1	7.6	10.7	6.7	8.2	11.9	7.3	9.1	12.8	7.9	9.8	13.7	8.2	10.4	14.3
			CMH	510			782			1037			1292			1547			1819			2074			2329		
			NC	<20			<20			<20			21			26			30			34			37		
375	375	0.141	4 Way - 41 Pattern	1.8	2.7	4.6	3.0	4.0	5.5	3.7	4.6	6.4	4.3	5.2	7.0	4.6	5.5	7.9	4.9	6.1	8.5	5.2	6.4	9.1	5.5	6.7	9.5
			2 way - 21 Pattern	2.4	3.7	6.1	3.7	5.2	7.3	4.9	6.1	8.5	5.5	6.7	9.5	6.1	7.3	10.4	6.4	7.9	11.3	7.0	8.5	12.2	7.3	9.1	12.8
			1 way - 11 Pattern	3.4	5.2	8.5	5.2	7.3	10.7	7.0	8.5	12.2	7.9	9.5	13.4	8.5	10.4	14.9	9.1	11.3	16.2	9.8	12.2	17.1	10.4	12.8	18.3
			CMH	748			1122			1496			1870			2244			2618			2992			3366		
			NC	<20			<20			<20			23			28			32			36			39		
460	460	0.203	4 Way - 41 Pattern	2.4	3.4	5.5	3.4	4.6	6.7	4.6	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.6	11.0	6.7	8.2	11.6
			2 way - 21 Pattern	3.0	4.6	7.3	4.6	6.4	8.8	5.8	7.3	10.4	6.7	8.2	11.6	7.3	8.8	12.5	7.9	9.8	13.7	8.5	10.4	14.6	8.8	11.0	15.5
			1 way - 11 Pattern	4.3	6.4	10.4	6.4	8.8	12.5	8.2	10.4	14.6	9.5	11.6	16.2	10.4	12.5	17.7	11.0	13.7	19.2	11.9	14.6	20.7	12.5	15.5	22.0
			CMH	1020			1530			2040			2550			3060			3587			4097			4607		
			NC	<20			<20			<20			24			29			33			37			40		
525	525	0.276	4 Way - 41 Pattern	2.7	4.0	6.4	4.0	5.5	7.6	5.2	6.4	8.8	5.8	7.0	10.1	6.4	7.6	11.0	7.0	8.5	11.9	7.3	8.8	12.8	7.9	9.5	13.4
			2 way - 21 Pattern	3.4	5.2	8.5	5.2	7.3	10.4	7.0	8.5	11.9	7.6	9.5	13.4	8.5	10.4	14.6	9.1	11.3	15.9	9.8	12.2	17.1	10.4	12.8	18.0
			1 way - 11 Pattern	4.9	7.3	11.9	7.3	10.4	14.6	9.8	11.9	17.1	11.0	13.4	18.9	11.9	14.6	20.7	13.1	15.9	22.6	14.0	17.1	24.1	14.6	18.0	25.6
			CMH	1343			2006			2686			3349			4012			4692			5355			6018		
			NC	<20			<20			<20			25			30			35			38			41		
600	600	0.360	4 Way - 41 Pattern	3.0	4.6	7.3	4.6	6.4	8.8	5.8	7.3	10.4	6.7	8.2	11.6	7.3	8.8	12.5	7.9	9.8	13.7	8.2	10.4	14.6	8.8	11.0	15.2
			2 way - 21 Pattern	4.0	6.1	9.8	5.8	8.5	11.9	7.9	9.8	13.7	8.8	11.0	15.5	9.8	11.9	16.8	10.7	12.8	18.3	11.3	13.7	19.5	11.9	14.6	20.7
			1 way - 11 Pattern	5.5	8.5	13.7	8.5	11.9	16.8	11.3	13.7	19.5	12.5	15.5	21.6	13.7	16.8	23.8	14.9	18.3	25.9	15.9	19.5	27.4	16.8	20.7	29.3

Performance Data (Return Air)



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			CMH	85			119			153			204			238			272			323			357		
			NC	<20			<20			<20			<20			<20			22			26			29		
150	150	0.023	4 Way - 41 Pattern	0.9	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
			2 way - 21 Pattern	0.9	1.5	2.4	1.5	2.1	3.0	1.8	2.4	3.4	2.1	2.7	3.7	2.4	3.0	4.0	2.4	3.0	4.3	2.7	3.4	4.9	3.0	3.7	4.9
			1 way - 11 Pattern	1.5	2.1	3.4	2.1	3.0	4.0	2.7	3.4	4.6	3.0	3.7	5.5	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.0	4.9	7.0
			CMH	187			272			374			459			544			646			731			833		
			NC	<20			<20			<20			<20			22			26			30			33		
225	225	0.051	4 Way - 41 Pattern	1.2	1.8	2.7	1.8	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	3.0	3.7	5.2	3.0	3.7	5.5	3.4	4.0	5.8
			2 way - 21 Pattern	1.5	2.1	3.7	2.1	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.3	5.2	7.3	4.6	5.5	7.6
			1 way - 11 Pattern	2.1	3.0	5.2	3.0	4.3	6.1	4.3	5.2	7.3	4.6	5.8	7.9	5.2	6.1	8.8	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.6	11.0
			CMH	323			493			663			816			986			1156			1326			1479		
			NC	<20			<20			<20			<20			24			28			32			35		
300	300	0.090	4 Way - 41 Pattern	1.5	2.1	3.7	2.4	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.3	5.2	7.3	4.3	5.5	7.6
			2 way - 21 Pattern	1.8	2.7	4.9	3.0	4.3	5.8	4.0	4.9	6.7	4.3	5.5	7.6	4.9	5.8	8.2	5.2	6.4	9.1	5.5	6.7	9.8	5.8	7.3	10.4
			1 way - 11 Pattern	2.7	4.0	6.7	4.3	5.8	8.2	5.5	6.7	9.8	6.1	7.6	10.7	6.7	8.2	11.9	7.3	9.1	12.8	7.9	9.8	13.7	8.2	10.4	14.3
			CMH	510			782			1037			1292			1547			1819			2074			2329		
			NC	<20			<20			<20			21			26			30			34			37		
375	375	0.141	4 Way - 41 Pattern	1.8	2.7	4.6	3.0	4.0	5.5	3.7	4.6	6.4	4.3	5.2	7.0	4.6	5.5	7.9	4.9	6.1	8.5	5.2	6.4	9.1	5.5	6.7	9.5
			2 way - 21 Pattern	2.4	3.7	6.1	3.7	5.2	7.3	4.9	6.1	8.5	5.5	6.7	9.5	6.1	7.3	10.4	6.4	7.9	11.3	7.0	8.5	12.2	7.3	9.1	12.8
			1 way - 11 Pattern	3.4	5.2	8.5	5.2	7.3	10.7	7.0	8.5	12.2	7.9	9.5	13.4	8.5	10.4	14.9	9.1	11.3	16.2	9.8	12.2	17.1	10.4	12.8	18.3
			CMH	748			1122			1496			1870			2244			2618			2992			3366		
			NC	<20			<20			<20			23			28			32			36			39		
460	460	0.203	4 Way - 41 Pattern	2.4	3.4	5.5	3.4	4.6	6.7	4.6	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.6	11.0	6.7	8.2	11.6
			2 way - 21 Pattern	3.0	4.6	7.3	4.6	6.4	8.8	5.8	7.3	10.4	6.7	8.2	11.6	7.3	8.8	12.5	7.9	9.8	13.7	8.5	10.4	14.6	8.8	11.0	15.5
			1 way - 11 Pattern	4.3	6.4	10.4	6.4	8.8	12.5	8.2	10.4	14.6	9.5	11.6	16.2	10.4	12.5	17.7	11.0	13.7	19.2	11.9	14.6	20.7	12.5	15.5	22.0
			CMH	1020			1530			2040			2550			3060			3587			4097			4607		
			NC	<20			<20			<20			24			29			33			37			40		
525	525	0.276	4 Way - 41 Pattern	2.7	4.0	6.4	4.0	5.5	7.6	5.2	6.4	8.8	5.8	7.0	10.1	6.4	7.6	11.0	7.0	8.5	11.9	7.3	8.8	12.8	7.9	9.5	13.4
			2 way - 21 Pattern	3.4	5.2	8.5	5.2	7.3	10.4	7.0	8.5	11.9	7.6	9.5	13.4	8.5	10.4	14.6	9.1	11.3	15.9	9.8	12.2	17.1	10.4	12.8	18.0
			1 way - 11 Pattern	4.9	7.3	11.9	7.3	10.4	14.6	9.8	11.9	17.1	11.0	13.4	18.9	11.9	14.6	20.7	13.1	15.9	22.6	14.0	17.1	24.1	14.6	18.0	25.6
			CMH	1343			2006			2686			3349			4012			4692			5355			6018		
			NC	<20			<20			<20			25			30			35			38			41		
600	600	0.360	4 Way - 41 Pattern	3.0	4.6	7.3	4.6	6.4	8.8	5.8	7.3	10.4	6.7	8.2	11.6	7.3	8.8	12.5	7.9	9.8	13.7	8.2	10.4	14.6	8.8	11.0	15.2
			2 way - 21 Pattern	4.0	6.1	9.8	5.8	8.5	11.9	7.9	9.8	13.7	8.8	11.0	15.5	9.8	11.9	16.8	10.7	12.8	18.3	11.3	13.7	19.5	11.9	14.6	20.7
			1 way - 11 Pattern	5.5	8.5	13.7	8.5	11.9	16.8	11.3	13.7	19.5	12.5	15.5	21.6	13.7	16.8	23.8	14.9	18.3	25.9	15.9	19.5	27.4	16.8	20.7	29.3

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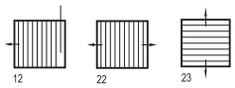

Performance Data

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W	H	m2	Pt	2.5			5			10			15			22.5			30			40			50		
225	150	0.034	CMH	119			187			238			306			357			425			476			544		
			NC	<20			<20			<20			<20			20			24			28			31		
			2 way - 22 & 23 Patterns	1.2	1.8	3.0	1.8	2.4	3.7	2.4	3.0	4.0	2.7	3.4	4.6	3.0	3.7	4.9	3.0	4.0	5.5	3.4	4.0	5.8	3.7	4.3	6.1
			1 way - 12 Pattern	1.5	2.4	4.0	2.7	3.7	5.2	3.4	4.0	5.8	3.7	4.6	6.7	4.0	4.9	7.0	4.6	5.5	7.6	4.9	5.8	8.2	5.2	6.1	8.8
300	150	0.045	CMH	170			238			323			408			493			561			646			731		
			NC	<20			<20			<20			<20			21			25			29			32		
			2 way - 22 & 23 Patterns	1.5	2.1	3.4	2.1	3.0	4.0	2.7	3.4	4.9	3.0	3.7	5.5	3.4	4.3	5.8	3.7	4.6	6.4	4.0	4.9	6.7	4.3	5.2	7.3
			1 way - 12 Pattern	2.1	3.0	4.9	2.7	4.0	5.8	4.0	4.9	6.7	4.3	5.5	7.6	4.9	5.8	8.2	5.2	6.4	8.8	5.5	6.7	9.5	5.8	7.3	10.1
375	150	0.056	CMH	204			306			408			510			612			714			816			918		
			NC	<20			<20			<20			<20			22			26			30			33		
			2 way - 22 & 23 Patterns	1.5	2.4	3.7	2.4	3.4	4.6	3.0	3.7	5.5	3.4	4.3	6.1	3.7	4.6	6.7	4.0	4.9	7.0	4.3	5.5	7.6	4.6	5.8	7.9
			1 way - 12 Pattern	2.1	3.4	5.5	3.4	4.6	6.7	4.3	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.0	10.1	6.1	7.6	10.7	6.7	7.9	11.3
300	225	0.068	CMH	238			374			493			612			731			867			986			1105		
			NC	<20			<20			<20			<20			23			27			31			34		
			2 way - 22 & 23 Patterns	1.5	2.4	4.0	2.4	3.7	5.2	3.4	4.3	5.8	3.7	4.6	6.7	4.3	5.2	7.3	4.6	5.5	7.9	4.9	5.8	8.2	5.2	6.4	8.8
			1 way - 12 Pattern	2.4	3.4	5.8	3.7	5.2	7.3	4.9	5.8	8.2	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.9	11.0	6.7	8.2	11.9	7.3	8.8	12.5
375	225	0.084	CMH	306			459			612			765			918			1071			1241			1394		
			NC	<20			<20			<20			<20			24			28			32			35		
			2 way - 22 & 23 Patterns	1.8	2.7	4.6	2.7	4.0	5.8	3.7	4.6	6.7	4.3	5.2	7.3	4.6	5.8	7.9	4.9	6.1	8.8	5.5	6.7	9.5	5.8	7.0	10.1
			1 way - 12 Pattern	2.7	4.0	6.7	4.0	5.8	7.9	5.5	6.7	9.5	6.1	7.3	10.4	6.7	7.9	11.3	7.0	8.8	12.2	7.6	9.5	13.1	8.2	10.1	14.0
375	300	0.113	CMH	408			612			833			1037			1241			1445			1649			1853		
			NC	<20			<20			<20			20			25			29			33			36		
			2 way - 22 & 23 Patterns	2.1	3.4	5.5	3.4	4.6	6.7	4.6	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.0	10.1	6.1	7.6	10.7	6.7	8.2	11.6
			1 way - 12 Pattern	3.0	4.6	7.6	4.6	6.7	9.5	6.4	7.6	11.0	7.0	8.5	12.2	7.6	9.5	13.1	8.2	10.1	14.3	8.8	10.7	15.2	9.5	11.6	16.2
525	225	0.118	CMH	425			646			867			1088			1292			1513			1734			1955		
			NC	<20			<20			<20			20			25			30			33			37		
			2 way - 22 & 23 Patterns	2.1	3.4	5.5	3.4	4.9	6.7	4.6	5.5	7.9	5.2	6.1	8.8	5.5	6.7	9.5	6.1	7.3	10.4	6.4	7.9	11.0	6.7	8.2	11.9
			1 way - 12 Pattern	3.0	4.6	7.6	4.9	6.7	9.5	6.4	7.9	11.0	7.3	8.8	12.5	7.9	9.5	13.4	8.5	10.4	14.6	9.1	11.0	15.5	9.8	11.9	16.8
450	300	0.135	CMH	493			748			986			1241			1496			1734			1989			2244		
			NC	<20			<20			<20			21			26			30			34			37		
			2 way - 22 & 23 Patterns	2.4	3.7	5.8	3.7	5.2	7.3	4.9	5.8	8.2	5.5	6.7	9.5	5.8	7.3	10.4	6.4	7.9	11.0	6.7	8.5	11.9	7.3	8.8	12.5
			1 way - 12 Pattern	3.4	5.2	8.2	5.2	7.3	10.4	6.7	8.2	11.9	7.6	9.5	13.1	8.5	10.4	14.6	9.1	11.0	15.5	9.8	11.9	16.8	10.4	12.5	17.7
525	300	0.158	CMH	578			867			1156			1445			1734			2040			2329			2618		
			NC	<20			<20			<20			22			27			31			35			38		
			2 way - 22 & 23 Patterns	2.7	4.0	6.4	4.0	5.5	7.9	5.2	6.4	9.1	5.8	7.0	10.1	6.4	7.9	11.0	7.0	8.5	11.9	7.3	9.1	12.8	7.9	9.8	13.7
			1 way - 12 Pattern	3.7	5.5	9.1	5.5	7.9	11.0	7.3	9.1	12.8	8.2	10.1	14.3	9.1	11.0	15.5	9.8	11.9	17.1	10.4	12.8	18.3	11.0	13.7	19.2
600	300	0.180	CMH	663			1003			1326			1666			1989			2329			2652			2992		
			NC	<20			<20			<20			22			27			31			35			38		
			2 way - 22 & 23 Patterns	2.7	4.3	6.7	4.3	6.1	8.5	5.5	6.7	9.8	6.4	7.6	11.0	6.7	8.5	11.9	7.3	9.1	12.8	7.9	9.8	13.7	8.5	10.4	14.6
			1 way - 12 & 13 Patterns	4.0	5.8	9.8	6.1	8.5	11.9	7.9	9.8	13.7	8.8	11.0	15.2	9.8	11.9	16.8	10.4	12.8	18.3	11.3	13.7	19.5	11.9	14.6	20.7

Performance Data

NECK SIZE (mm)		NECK	Neck Velocity	1.0			1.5			2.0			2.5			3.0			3.5			4.0			4.5		
W	H	m2	Pt	2.5			5			10			15			22.5			30			40			50		
150	150	0.023	CMH	85			119			153			204			238			272			323			357		
			NC	<20			<20			<20			<20			<20			22			26			29		
			CMH (L)	34			51			51			85			85			102			119			136		
			Throw (L)	0.9	1.5	2.1	1.2	1.8	2.7	1.8	2.1	3.0	2.1	2.4	3.4	2.1	2.7	3.7	2.4	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6
			CMH (S)	17			34			34			51			68			68			85			85		
			Throw (S)	0.9	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
225	225	0.051	CMH	187			272			374			459			544			646			731			833		
			NC	<20			<20			<20			<20			22			26			30			33		
			CMH (L)	68			102			136			170			204			238			272			306		
			Throw (L)	1.5	2.1	3.4	2.1	2.7	4.0	2.7	3.4	4.6	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	3.7	4.6	6.7	4.0	4.9	7.0
			CMH (S)	51			68			102			119			136			170			187			204		
			Throw (S)	1.2	1.8	2.7	1.5	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	3.0	3.7	5.2	3.0	3.7	5.5	3.4	4.0	5.8
300	300	0.090	CMH	323			493			663			816			986			1156			1326			1479		
			NC	<20			<20			<20			<20			24			28			32			35		
			CMH (L)	119			187			255			306			374			442			493			561		
			Throw (L)	1.8	2.7	4.3	2.7	4.0	5.5	3.7	4.6	6.4	4.0	4.9	7.0	4.3	5.5	7.6	4.9	5.8	8.2	5.2	6.4	8.8	5.5	6.7	9.5
			CMH (S)	85			119			170			204			255			289			340			374		
			Throw (S)	1.5	2.1	3.7	2.1	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.3	5.2	7.3	4.3	5.5	7.6
375	375	0.141	CMH	510			782			1037			1292			1547			1819			2074			2329		
			NC	<20			<20			<20			21			26			30			34			37		
			CMH (L)	187			289			391			493			578			680			782			867		
			Throw (L)	2.4	3.4	5.5	3.7	4.9	6.7	4.6	5.5	7.9	5.2	6.1	8.8	5.5	6.7	9.5	6.1	7.3	10.4	6.4	7.9	11.0	6.7	8.2	11.6
			CMH (S)	136			204			255			323			391			459			527			578		
			Throw (S)	1.8	2.7	4.6	2.7	4.0	5.5	3.7	4.6	6.4	4.3	5.2	7.0	4.6	5.5	7.9	4.9	6.1	8.5	5.2	6.4	9.1	5.5	6.7	9.5
460	460	0.203	CMH	748			1122			1496			1870			2244			2618			2992			3366		
			NC	<20			<20			<20			23			28			32			36			39		
			CMH (L)	289			425			561			697			850			986			1122			1258		
			Throw (L)	2.7	4.3	6.7	4.3	5.8	8.2	5.5	6.7	9.5	6.1	7.3	10.4	6.7	8.2	11.6	7.3	8.8	12.5	7.6	9.5	13.4	8.2	10.1	14.0
			CMH (S)	187			289			374			476			561			663			748			850		
			Throw (S)	2.4	3.4	5.5	3.4	4.6	6.7	4.6	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.6	11.0	6.7	8.2	11.6
525	525	0.276	CMH	1020			1530			2040			2550			3060			3587			4097			4607		
			NC	<20			<20			<20			24			29			33			37			40		
			CMH (L)	391			578			765			952			1156			1343			1530			1734		
			Throw (L)	3.4	4.9	7.6	4.9	6.7	9.5	6.4	7.6	11.0	7.0	8.5	12.2	7.6	9.5	13.4	8.5	10.4	14.6	8.8	11.0	15.5	9.5	11.6	16.5
			CMH (S)	255			391			510			646			765			901			1020			1156		
			Throw (S)	2.7	4.0	6.4	4.0	5.5	7.6	5.2	6.4	8.8	5.8	7.0	10.1	6.4	7.6	11.0	7.0	8.5	11.9	7.3	8.8	12.8	7.9	9.5	13.4
600	600	0.360	CMH	1343			2006			2686			3349			4012			4692			5355			6018		
			NC	<20			<20			<20			25			30			35			38			41		
			CMH (L)	510			748			1003			1258			1513			1768			2006			2261		
			Throw (L)	3.7	5.8	8.8	5.8	7.6	11.0	7.3	8.8	12.5	8.2	10.1	14.0	8.8	11.0	15.2	9.8	11.9	16.8	10.4	12.5	17.7	11.0	13.4	18.9
			CMH (S)	340			510			680			833			1003			1173			1343			1513		
			Throw (S)	3.0	4.6	7.3	4.6	6.4	8.8	5.8	7.3	10.4	6.7	8.2	11.6	7.3	8.8	12.5	7.9	9.8	13.7	8.2	10.4	14.6	8.8	11.0	15.2

*In the interest of product development, KMC reserves the right to make changes without notice.

Model KDF
Square Diffusers

Performance Data *(3 way diffuser)*

NECK SIZE (mm)		NECK	Neck Velocity	1.0			1.5			2.0			2.5			3.0			3.5			4.0			4.5		
W	H	m2	Pt	2.5			5			10			15			22.5			30			40			50		
225	150	0.034	CMH	119			187			238			306			357			425			476			544		
			NC	<20			<20			<20			<20			20			24			28			31		
			CMH (L)	51			68			85			119			136			153			187			204		
			Throw (L)	1.2	1.5	2.7	1.8	2.4	3.4	2.1	2.7	3.7	2.4	3.0	4.3	2.7	3.4	4.6	2.7	3.7	4.9	3.0	3.7	5.2	3.4	4.0	5.8
			CMH (S)	34			51			68			102			119			136			153			170		
			Throw (S)	0.9	1.5	2.4	1.5	2.1	3.0	1.8	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	2.7	3.4	4.9	3.0	3.7	5.2
300	150	0.045	CMH	170			238			323			408			493			561			646			731		
			NC	<20			<20			<20			<20			21			25			29			32		
			CMH (L)	85			119			170			204			255			289			323			374		
			Throw (L)	1.5	2.4	3.7	2.1	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.6	6.7	4.3	5.2	7.0	4.3	5.5	7.6
			CMH (S)	51			68			85			102			119			136			170			187		
			Throw (S)	1.2	1.5	2.4	1.5	2.1	3.0	2.1	2.4	3.7	2.4	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	3.0	3.7	5.2	3.0	3.7	5.5
375	150	0.056	CMH	204			306			408			510			612			714			816			918		
			NC	<20			<20			<20			<20			22			26			30			33		
			CMH (L)	136			187			255			323			391			442			510			578		
			Throw (L)	1.8	2.7	4.6	2.7	4.0	5.5	3.7	4.6	6.4	4.0	4.9	7.0	4.6	5.5	7.6	4.9	5.8	8.2	5.2	6.4	8.8	5.5	6.7	9.5
			CMH (S)	34			51			85			102			119			136			153			170		
			Throw (S)	0.9	1.5	2.4	1.5	2.1	3.0	2.1	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	2.7	3.4	4.9	3.0	3.7	5.2
450	150	0.068	CMH	238			374			493			612			731			850			986			1105		
			NC	<20			<20			<20			<20			23			27			31			34		
			CMH (L)	187			289			374			459			544			646			748			833		
			Throw (L)	2.1	3.4	5.2	3.4	4.6	6.7	4.3	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.1	5.8	7.0	10.1	6.1	7.6	10.7	6.7	7.9	11.3
			CMH (S)	34			51			68			85			85			102			119			136		
			Throw (S)	0.9	1.2	2.1	1.5	1.8	2.7	1.8	2.1	3.0	2.1	2.4	3.4	2.1	2.7	3.7	2.4	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6
300	225	0.068	CMH	238			374			493			612			731			867			986			1105		
			NC	<20			<20			<20			<20			23			27			31			34		
			CMH (L)	85			119			170			204			238			289			323			374		
			Throw (L)	1.5	2.1	3.7	2.4	3.0	4.6	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.3	5.2	7.3	4.3	5.5	7.6
			CMH (S)	85			119			170			204			238			289			323			374		
			Throw (S)	1.5	2.1	3.7	2.4	3.0	4.6	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.3	5.2	7.3	4.3	5.5	7.6
375	225	0.084	CMH	306			459			612			765			918			1071			1241			1394		
			NC	<20			<20			<20			<20			24			28			32			35		
			CMH (L)	136			187			255			323			391			442			510			578		
			Throw (L)	1.8	2.7	4.6	2.7	4.0	5.5	3.7	4.6	6.4	4.0	4.9	7.0	4.6	5.5	7.6	4.9	5.8	8.2	5.2	6.4	9.1	5.5	6.7	9.5
			CMH (S)	85			136			187			221			272			306			357			408		
			Throw (S)	1.5	2.4	3.7	2.4	3.4	4.6	3.0	3.7	5.2	3.4	4.3	5.8	3.7	4.6	6.4	4.0	4.9	7.0	4.3	5.5	7.6	4.6	5.8	7.9
525	225	0.118	CMH	425			646			867			1088			1292			1513			1734			1955		
			NC	<20			<20			<20			20			25			30			33			37		
			CMH (L)	255			374			510			629			748			884			1020			1139		
			Throw (L)	2.7	4.0	6.1	4.0	5.5	7.6	5.2	6.4	8.8	5.8	7.0	10.1	6.4	7.6	11.0	6.7	8.2	11.9	7.3	8.8	12.5	7.6	9.5	13.4
			CMH (S)	85			136			187			221			272			323			357			408		
			Throw (S)	1.5	2.4	3.7	2.4	3.4	4.6	3.0	3.7	5.2	3.4	4.3	6.1	3.7	4.6	6.4	4.0	4.9	7.0	4.3	5.2	7.6	4.6	5.8	7.9
375	300	0.113	CMH	408			612			833			1037			1241			1445			1649			1853		
			NC	<20			<20			<20			20			25			29			33			36		
			CMH (L)	136			187			255			323			391			459			510			578		
			Throw (L)	1.8	2.7	4.6	2.7	4.0	5.5	3.7	4.6	6.4	4.3	5.2	7.0	4.6	5.5	7.9	4.9	6.1	8.5	5.2	6.4	9.1	5.5	6.7	9.5
			CMH (S)	136			204			289			357			425			493			561			629		
			Throw (S)	1.8	3.0	4.6	3.0	4.0	5.8	4.0	4.9	6.7	4.3	5.2	7.6	4.9	5.8	8.2	5.2	6.4	8.8	5.5	6.7	9.5	5.8	7.0	10.1
450	300	0.135	CMH	493			748			986			1241			1496			1734			1989			2244		
			NC	<20			<20			<20			21			26			30			34			37		
			CMH (L)	187			289			374			459			561			646			748			850		
			Throw (L)	2.1	3.4	5.5	3.4	4.6	6.7	4.3	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.0	10.1	6.4	7.6	11.0	6.7	8.2	11.6
			CMH (S)	153			238			306			391			476			544			629			697		
			Throw (S)	2.1	3.0	4.9	3.0	4.3	6.1	4.0	4.9	7.0	4.6	5.5	7.9	4.9	6.1	8.5	5.2	6.4	9.1	5.8	7.0	9.8	6.1	7.3	10.4
450	375	0.169	CMH	629			935			1241			1564			1870			2176			2499			2805		
			NC	<20			<20			<20			22			27			31			35			38		
			CMH (L)	187			289			374			476			561			646			748			850		
			Throw (L)	2.4	3.4	5.5	3.4	4.6	6.7	4.3	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.6	11.0	6.7	8.2	11.6
			CMH (S)	221			323			442			544			663			765			867			986		
			Throw (S)	2.4	3.7	5.8	3.7	5.2	7.3	4.9	5.8	8.2	5.5	6.7	9.1	5.8	7.3	10.1	6.4	7.6	11.0	6.7	8.2	11.6	7.3	8.8	12.5
525	450	0.236	CMH	867			1309			1751			2193			2618			3060			3502			3944		
			NC	<20			<20			<20			23			28			33			36			40		
			CMH (L)	255			374			510			646			765			901			1020			1156		
			Throw (L)	2.7	4.0	6.4	4.0	5.5	7.6	5.2	6.4	8.8	5.8	7.0	10.1	6.4	7.6	11.0	6.7	8.2	11.9	7.3	8.8	12.8	7.6	9.5	13.4
			CMH (S)	306			459			612			782			935			1088			1241			1394		
			Throw (S)	3.0	4.3	7.0	4.6	6.1	8.5	5.8	7.0	9.8	6.4	7.9	11.0	7.0	8.5	12.2	7.6	9.1	13.1	7.9	9.8	14.0	8.5	10.4	14.9

*In the interest of product development, KMC reserves the right to make changes without notice.

Model KDF
Square Diffusers

شركة خالد لصناعة
Khalid Manufacturing Company

Performance Data *(3 way diffuser)*

NECK SIZE (mm)		NECK	Neck Velocity	1.0			1.5			2.0			2.5			3.0			3.5			4.0			4.5		
W	H	m2	Pt	2.5			5			10			15			22.5			30			40			50		
225	150	0.034	CMH	119			187			238			306			357			425			476			544		
			NC	<20			<20			<20			<20			20			24			28			31		
			CMH (L)	51			85			102			136			153			170			204			221		
			Throw (L)	1.2	1.8	2.7	1.8	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.6	2.7	3.4	4.9	3.0	3.7	5.2	3.4	4.0	5.5	3.4	4.3	6.1
			CMH (S)	17			34			34			51			68			68			85			85		
			Throw (S)	0.6	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
300	150	0.045	CMH	170			238			323			408			493			561			646			731		
			NC	<20			<20			<20			<20			21			25			29			32		
			CMH (L)	68			102			136			187			221			238			289			323		
			Throw (L)	1.5	2.1	3.4	2.1	2.7	4.0	2.7	3.4	4.6	3.0	3.7	5.2	3.4	4.3	5.8	3.7	4.3	6.1	4.0	4.6	6.7	4.0	4.9	7.0
			CMH (S)	17			34			34			51			68			68			85			85		
			Throw (S)	0.9	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
375	150	0.056	CMH	204			306			408			510			612			714			816			918		
			NC	<20			<20			<20			<20			22			26			30			33		
			CMH (L)	85			136			187			238			272			323			374			408		
			Throw (L)	1.5	2.4	3.7	2.4	3.4	4.6	3.0	3.7	5.5	3.4	4.3	6.1	3.7	4.6	6.7	4.0	4.9	7.0	4.3	5.5	7.6	4.6	5.8	7.9
			CMH (S)	17			34			34			51			68			68			85			85		
			Throw (S)	0.6	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
300	225	0.068	CMH	238			374			493			612			731			867			986			1105		
			NC	<20			<20			<20			<20			23			27			31			34		
			CMH (L)	102			153			204			255			289			357			408			442		
			Throw (L)	1.5	2.4	4.0	2.4	3.4	4.9	3.4	4.0	5.5	3.7	4.6	6.4	4.0	4.9	6.7	4.3	5.2	7.3	4.6	5.5	7.9	4.9	6.1	8.5
			CMH (S)	51			68			85			119			136			170			187			204		
			Throw (S)	1.2	1.5	2.7	1.8	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	3.0	3.7	5.2	3.0	4.0	5.5	3.4	4.0	5.8
375	225	0.084	CMH	306			459			612			765			918			1071			1241			1394		
			NC	<20			<20			<20			<20			24			28			32			35		
			CMH (L)	136			187			255			323			391			459			527			595		
			Throw (L)	1.8	2.7	4.6	2.7	4.0	5.5	3.7	4.6	6.4	4.3	5.2	7.0	4.6	5.5	7.9	4.9	6.1	8.5	5.2	6.4	9.1	5.5	6.7	9.8
			CMH (S)	51			68			85			119			136			153			187			204		
			Throw (S)	1.2	1.8	2.7	1.8	2.4	3.4	2.1	2.7	3.7	2.4	3.0	4.3	2.7	3.4	4.6	3.0	3.7	4.9	3.0	4.0	5.5	3.4	4.0	5.8
525	225	0.118	CMH	425			646			867			1088			1292			1513			1734			1955		
			NC	<20			<20			<20			20			25			30			33			37		
			CMH (L)	187			289			391			493			578			680			782			867		
			Throw (L)	2.1	3.4	5.5	3.4	4.9	6.7	4.6	5.5	7.9	5.2	6.1	8.8	5.5	6.7	9.5	6.1	7.3	10.4	6.4	7.9	11.0	6.7	8.2	11.6
			CMH (S)	51			68			85			119			136			170			187			204		
			Throw (S)	1.2	1.8	2.7	1.8	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	3.0	3.7	5.2	3.0	4.0	5.5	3.4	4.0	5.8
375	300	0.113	CMH	408			612			833			1037			1241			1445			1649			1853		
			NC	<20			<20			<20			20			25			29			33			36		
			CMH (L)	170			238			340			408			493			578			663			748		
			Throw (L)	2.1	3.0	5.2	3.0	4.3	6.1	4.3	5.2	7.3	4.6	5.8	8.2	5.2	6.4	8.8	5.5	6.7	9.5	5.8	7.3	10.1	6.1	7.6	10.7
			CMH (S)	85			119			170			204			255			289			323			374		
			Throw (S)	1.5	2.1	3.7	2.1	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.4	4.0	4.9	6.7	4.3	5.2	7.3	4.3	5.5	7.6
450	300	0.135	CMH	493			748			986			1241			1496			1734			1989			2244		
			NC	<20			<20			<20			21			26			30			34			37		
			CMH (L)	204			306			408			510			629			731			833			935		
			Throw (L)	2.4	3.7	5.8	3.7	4.9	7.0	4.6	5.8	7.9	5.2	6.4	9.1	5.8	7.0	9.8	6.1	7.6	10.7	6.7	7.9	11.3	7.0	8.5	12.2
			CMH (S)	85			119			170			204			255			289			340			374		
			Throw (S)	1.5	2.1	3.7	2.4	3.0	4.6	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.6	6.4	4.0	4.9	6.7	4.3	5.2	7.3	4.6	5.5	7.6
600	450	0.270	CMH	1003			1496			2006			2499			3009			3502			4012			4505		
			NC	<20			<20			<20			24			29			33			37			40		
			CMH (L)	408			612			816			1020			1224			1428			1632			1836		
			Throw (L)	3.4	5.2	7.9	5.2	7.0	9.8	6.4	7.9	11.3	7.3	8.8	12.5	7.9	9.8	14.0	8.5	10.7	14.9	9.1	11.3	16.2	9.8	11.9	17.1
			CMH (S)	187			289			374			476			561			663			748			850		
			Throw (S)	2.4	3.4	5.5	3.4	4.6	6.7	4.6	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.6	11.0	6.7	8.2	11.6

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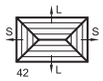
Model KDF
Square Diffusers



Performance Data

NECK SIZE (mm)		NECK	Neck Velocity	1.0			1.5			2.0			2.5			3.0			3.5			4.0			4.5		
W	H	m2	Pt	2.5			5			10			15			22.5			30			40			50		
225	150	0.034	CMH	119			187			238			306			357			425			476			544		
			NC	<20			<20			<20			<20			20			24			28			31		
			Throw (L)	0.9	1.5	2.4	1.5	2.1	3.0	2.1	2.4	3.7	2.4	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	2.7	3.7	4.9	3.0	3.7	5.5
			CMH (S)	17			34			34			51			68			68			85			85		
			Throw (S)	0.6	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
300	150	0.045	CMH	170			238			323			408			493			561			646			731		
			NC	<20			<20			<20			<20			21			25			29			32		
			CMH (L)	68			85			119			153			187			204			238			272		
			Throw (L)	1.2	2.1	3.0	1.8	2.7	3.7	2.4	3.0	4.3	2.7	3.4	4.9	3.0	4.0	5.5	3.4	4.0	5.8	3.7	4.3	6.1	3.7	4.6	6.7
			CMH (S)	17			34			34			51			68			68			85			85		
			Throw (S)	0.9	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
375	150	0.056	CMH	204			306			408			510			612			714			816			918		
			NC	<20			<20			<20			<20			22			26			30			33		
			CMH (L)	85			119			170			204			238			289			323			374		
			Throw (L)	1.5	2.1	3.7	2.1	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.1	4.0	4.9	6.7	4.3	5.2	7.3	4.3	5.5	7.6
			CMH (S)	17			34			34			51			68			68			85			85		
			Throw (S)	0.6	1.2	1.8	1.2	1.5	2.1	1.5	1.8	2.4	1.5	2.1	2.7	1.8	2.1	3.0	1.8	2.4	3.4	2.1	2.4	3.7	2.1	2.7	3.7
450	225	0.101	CMH	374			561			748			935			1105			1292			1479			1666		
			NC	<20			<20			<20			20			25			29			33			36		
			CMH (L)	136			204			289			357			408			493			561			629		
			Throw (L)	2.1	3.0	4.6	3.0	4.0	5.8	4.0	4.6	6.7	4.3	5.2	7.3	4.6	5.8	7.9	5.2	6.1	8.8	5.5	6.7	9.5	5.8	7.0	10.1
			CMH (S)	51			68			102			119			136			170			187			204		
			Throw (S)	1.2	1.8	2.7	1.8	2.4	3.4	2.1	2.7	4.0	2.4	3.0	4.3	2.7	3.4	4.6	3.0	3.7	5.2	3.0	4.0	5.5	3.4	4.0	5.8
375	300	0.113	CMH	408			612			833			1037			1241			1445			1649			1853		
			NC	<20			<20			<20			20			25			29			33			36		
			CMH (L)	119			187			255			306			374			442			493			561		
			Throw (L)	1.8	2.7	4.3	2.7	3.7	5.5	3.7	4.6	6.4	4.0	4.9	7.0	4.3	5.5	7.6	4.9	5.8	8.2	5.2	6.1	8.8	5.5	6.7	9.5
			CMH (S)	85			119			170			204			255			289			323			374		
			Throw (S)	1.5	2.1	3.7	2.1	3.0	4.3	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.3	6.4	4.0	4.9	6.7	4.3	5.2	7.3	4.3	5.5	7.6
450	300	0.135	CMH	493			748			986			1241			1496			1734			1989			2244		
			NC	<20			<20			<20			21			26			30			34			37		
			CMH (L)	170			255			323			408			493			578			663			748		
			Throw (L)	2.1	3.4	5.2	3.4	4.6	6.4	4.3	5.2	7.3	4.6	5.8	7.9	5.2	6.4	8.8	5.5	6.7	9.5	5.8	7.3	10.4	6.4	7.6	11.0
			CMH (S)	85			119			170			204			255			289			340			374		
			Throw (S)	1.5	2.1	3.7	2.4	3.0	4.6	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.6	6.4	4.0	4.9	6.7	4.3	5.2	7.3	4.6	5.5	7.6
600	300	0.180	CMH	663			1003			1326			1666			1989			2329			2652			2992		
			NC	<20			<20			<20			22			27			31			35			38		
			CMH (L)	255			374			493			629			748			867			1003			1122		
			Throw (L)	2.7	4.0	6.4	4.0	5.5	7.6	5.2	6.4	8.8	5.8	7.0	10.1	6.4	7.6	11.0	6.7	8.2	11.6	7.3	8.8	12.5	7.6	9.5	13.4
			CMH (S)	85			119			170			204			255			289			340			374		
			Throw (S)	1.5	2.4	3.7	2.4	3.0	4.6	3.0	3.7	5.2	3.4	4.0	5.8	3.7	4.6	6.4	4.0	4.9	6.7	4.3	5.2	7.3	4.6	5.5	7.6
600	375	0.225	CMH	833			1241			1666			2074			2499			2907			3332			3740		
			NC	<20			<20			<20			23			28			32			36			39		
			CMH (L)	289			425			578			714			867			1003			1139			1292		
			Throw (L)	2.7	4.3	6.7	4.3	5.8	8.2	5.5	6.7	9.5	6.1	7.6	10.7	6.7	8.2	11.6	7.3	8.8	12.5	7.6	9.5	13.4	8.2	10.1	14.3
			CMH (S)	136			187			255			323			391			459			527			578		
			Throw (S)	1.8	2.7	4.6	2.7	4.0	5.5	3.7	4.6	6.4	4.3	5.2	7.0	4.6	5.5	7.9	4.9	6.1	8.5	5.2	6.4	9.1	5.5	6.7	9.5
600	450	0.270	CMH	1003			1496			2006			2499			3009			3502			4012			4505		
			NC	<20			<20			<20			24			29			33			37			40		
			CMH (L)	306			476			629			782			935			1088			1258			1411		
			Throw (L)	3.0	4.6	7.0	4.6	6.1	8.5	5.8	7.0	10.1	6.4	7.9	11.0	7.0	8.5	12.2	7.6	9.1	13.1	8.2	10.1	14.0	8.5	10.7	14.9
			CMH (S)	187			289			374			476			561			663			748			850		
			Throw (S)	2.4	3.4	5.5	3.4	4.6	6.7	4.6	5.5	7.6	4.9	6.1	8.5	5.5	6.7	9.5	5.8	7.3	10.1	6.4	7.6	11.0	6.7	8.2	11.6

Notes :

Standard

ANSI / ASHRAE standard 70

Sound Levels

NC is noise criteria curve that will not be exceeded at the operating point for the supply air volume shown. This is determined by assuming a 10dB(ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.

Return Use: Add + 2 to the NC shown in the tables.

Pressure

Pt represents Total Pressure, Pascal (Pa), measured in the supply duct

Throw

The numbers shown are throw distances, in meters, measured along the jet trajectory axis relating to terminal velocities of 0.75, 0.5 &0.25 m/s with the jet attached to the ceiling surface.

Data for core patterns indicating L & S represent the throw distance at the CMH referenced for the side shown. These non-symmetrical cores proportion air based on pattern & neck size.

Terminal velocity is the air speed, in meters per second, measured in the supply airstream.

Neck Velocity

Meters per second (m/s), measured in the supply duct

Model KDF
Square Diffusers

شركة خالد لصناعة
Khalid Manufacturing Company

MODEL

- KDF - Flange
- KDP - Lay -in

CORE PATTERNS

	4 WAY	3 WAY	2 WAY		1 WAY
SQUARE	41	31	21	25	11
RECTANGULAR	42	32	22	23	12
		33	26	27	13

MATERIAL

- Aluminum

NECK SIZES

- KDF - 150x150 to 460x460
- KDP - 150x150 to 460x460

PANEL SIZES

(Model KDP Only) Aluminum
- 300 x 300 to 600 x 600

FINISH

- Pure White
- Optional RAL Colors
- Custom Color Match
- Mill Finish (Aluminum Only)

OPTIONAL EQUIPMENT

Unit Mounted
- KSRA - Square to Round Adapter (Inlet Sizes 125mm to 400mm)
- OBD - Opposed Blade Damper (Duct Mounted)

KSRA INLET SIZE

- 125mm
- 150mm
- 175mm
- 200mm
- 225mm
- 250mm
- 300mm
- 350mm
- 400mm
- 450mm

Typical specification

Ceiling diffusers shall be directional type Model KDF/KDP as manufactured by KMC, and shall have a square or rectangular neck. Diffusers shall have a fixed, horizontal air discharge pattern, and shall be configured with a 1, 2, 3 or 4 way core / discharge pattern as scheduled. The diffuser core shall be removable, without tools, for cleaning or re-configuring the space air distribution. No screw holes shall be visible.

Diffusers shall be constructed from Extruded Aluminium as scheduled.

Accessories shall be provided as required and scheduled to meet the design intent. Model KSRA square to round duct adapters shall be used in transitioning to round duct. Adapters shall be of sufficient height to include opposed blade volume control dampers, and equalizing deflectors as scheduled. Dampers shall be adjustable from the room side by removing, without tools, the inner core assembly.

The powder coated finish shall be KMC standard RAL 9010 or color as scheduled.

If custom colours are required a sample color chip shall be provided to the diffuser manufacturer (KMC).