

Model KX3

Exhaust Grilles

Introduction

KMC Return / Exhaust Grilles utilize core of parallel fixed blades set at a deflection, generally 45° from horizontal to provide minimum “see through”.

These Grilles are mostly utilized for side wall application with blade deflection upward in high applications and down in lower application.

Application

- Recommended for general return or exhaust of room air
- 45° fixed blade deflection eliminates line of sight into duct work
- Typically installed in a sidewall, duct, or ceiling

Product Features

- Fixed blade return / exhaust grilles and registers exceeding the industry standard using corrosion resistant aluminum materials
- Aerodynamic blade design resulting in lowest achievable sound and pressure levels.
- 19mm blade spacing
- Blades selected as horizontal or vertical for visual effect
- Registers include a factory attached, opposed blade volume control damper
- Powder coated to RAL 9010 as standard
- Maximum size one piece construction is 1200mm x 1200mm
- Larger sizes shipped in multiple sections for field assembly.


Options

- Mounting holes in frame neatly countersunk
- Custom Colors

Selection Procedure

The selections can be made by means of a straight read-off from the “Performance Data” for the selected Model.

- Determine the Air flow rate per outlet.
- Select the Grille based on required Air flow rate against the outlet velocity, limiting pressure drop and sound level requirements.



Vertical Blades, 45° Deflection	
19mm Spacing	Model KX3VD
	Model KX3VOD

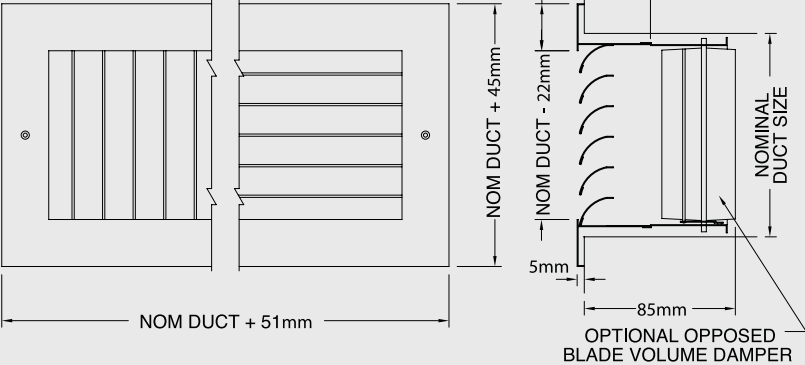
Horizontal Blades, 45° Deflection	
19mm Spacing	Model KX3HD
	Model KX3HOD

Model KX3VD

- 45° Vertical Louvers
- Optional Opposed Blade Damper Shown

Model KX3HD

- 45° Horizontal Louvers
- Optional Opposed Blade Damper Shown



Product Selection Check List

- Select Size (L x W) length based on desired performance characteristics.
- Select outlet type by Model Number.
- Select fastening type (Face / Concealed)
- Select Finish

19mm spacing (Return)

45° Deflection

Nominal Size		Nominal Duct m ²	Core Area m ²	Core Velocity Ps	1.3	1.5	1.8	2	2.3	2.5	3.0	3.6	4.1
W	H				-5	-10	-12.5	-15	-20	-25	-35	-47.5	-62.5
150	150	0.023	0.019	CMH	85	102	119	136	153	170	204	238	272
				NC	<20	<20	<20	21	25	28	33	37	40
200	150	0.031	0.025	CMH	119	136	153	187	204	221	272	323	374
				NC	<20	<20	<20	23	26	29	34	38	42
200	200	0.041	0.034	CMH	153	187	221	255	289	323	374	442	510
				NC	<20	<20	21	24	27	30	35	40	43
300	150	0.046	0.039	CMH	170	221	255	289	323	357	425	493	561
				NC	<20	<20	21	25	28	31	36	40	44
250	250	0.064	0.056	CMH	255	306	357	408	459	510	612	714	816
				NC	<20	<20	23	26	30	32	37	42	45
350	200	0.072	0.063	CMH	289	340	408	459	510	578	697	799	918
				NC	<20	<20	23	27	30	33	38	42	46
400	200	0.083	0.072	CMH	323	391	459	527	595	663	799	918	1054
				NC	<20	20	24	27	31	34	39	43	46
300	300	0.093	0.083	CMH	374	459	527	612	680	748	901	1054	1207
				NC	<20	20	24	28	31	34	39	43	47
500	200	0.103	0.091	CMH	425	493	578	663	748	833	1003	1173	1326
				NC	<20	21	25	28	32	35	40	44	47
450	250	0.116	0.104	CMH	476	578	663	765	850	952	1139	1326	1530
				NC	<20	21	25	29	32	35	40	44	48
350	350	0.126	0.114	CMH	527	629	731	833	935	1054	1258	1462	1666
				NC	<20	22	26	29	33	36	41	45	48
600	250	0.155	0.140	CMH	646	765	901	1020	1156	1275	1530	1802	2057
				NC	<20	22	27	30	34	36	41	46	49
400	400	0.165	0.151	CMH	697	833	969	1105	1241	1377	1666	1938	2210
				NC	<20	23	27	31	34	37	42	46	50
600	300	0.186	0.170	CMH	782	935	1088	1241	1394	1564	1870	2176	2499
				NC	<20	23	27	31	34	37	42	46	50
550	400	0.227	0.211	CMH	969	1156	1343	1547	1734	1921	2312	2703	3077
				NC	<20	24	28	32	35	38	43	47	51
500	500	0.258	0.241	CMH	1105	1326	1547	1768	1989	2193	2635	3077	3519
				NC	20	25	29	33	36	39	44	48	52
550	550	0.312	0.293	CMH	1343	1615	1870	2142	2414	2686	3213	3757	4284
				NC	21	26	30	34	37	40	45	49	53
600	600	0.372	0.350	CMH	1598	1921	2244	2567	2890	3213	3842	4488	5134
				NC	21	26	31	34	38	40	45	50	53
900	450	0.418	0.395	CMH	1802	2159	2533	2890	3247	3604	4335	5049	5780
				NC	22	27	31	35	38	41	46	50	54
750	600	0.465	0.441	CMH	2023	2414	2822	3230	3638	4029	4845	5644	6460
				NC	22	27	32	35	39	41	46	51	54
900	600	0.558	0.532	CMH	2431	2907	3400	3893	4369	4862	5831	6800	7769
				NC	23	28	32	36	39	42	47	51	55
750	750	0.581	0.555	CMH	2533	3043	3553	4063	4556	5066	6086	7106	8109
				NC	23	28	33	36	40	42	47	52	55
1050	600	0.651	0.622	CMH	2839	3417	3978	4556	5117	5678	6817	7956	9095
				NC	24	29	33	37	40	43	48	52	56
1200	600	0.743	0.712	CMH	3247	3910	4556	5202	5865	6511	7820	9112	10421
				NC	24	29	34	37	41	43	48	53	56
900	900	0.836	0.805	CMH	3672	4420	5151	5882	6630	7361	8840	10302	11781
				NC	25	30	34	38	41	44	49	53	57
950	950	0.932	0.899	CMH	4114	4930	5746	6579	7395	8211	9860	11509	13141
				NC	25	30	35	38	42	44	49	54	57
1050	950	1.030	0.994	CMH	4556	5457	6375	7276	8194	9095	10914	12733	14552
				NC	26	31	35	39	42	45	50	54	58
1200	1000	1.239	1.201	CMH	5491	6579	7684	8789	9877	10982	13175	15368	17561
				NC	27	32	36	40	43	46	51	55	59
1200	1100	1.363	1.322	CMH	6052	7259	8466	9673	10880	12104	14518	16932	19346
				NC	27	32	36	40	43	46	51	55	59
1200	1200	1.487	1.444	CMH	6613	7922	9248	10574	11900	13209	15861	18496	21148
				NC	28	33	37	40	44	47	52	56	59

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

Model KX3 Exhaust Grilles

Exhaust Grilles

BLADE DEFLECTION

- 45° Deflection

FACE BLADES

- Horizontal
- Vertical

MODEL

- 19mm Blade Spacing
- Aluminum Return

WIDTH

100 mm to 1200mm

HEIGHT

100 mm to 1200mm

FINISH

- Pure White (RAL 9010)
- Optional RAL Colors
- Custom Color Match
- Mill Finish (Aluminum Only)
- Natural Anodized (Aluminum Only)

ACCESSORIES

- No Border Mounting Holes



Typical Specification - Return / Exhaust Grilles

Return / Exhaust grilles & registers shall be KMC model KX3 (19mm blade spacing – aluminum) fixed blade, non-adjustable grilles as scheduled.

Provide sizes and mounting types as scheduled. For surface mounting applications, countersunk mounting holes shall be provided in the border, with oval head screws also provided by the grille manufacturer (KMC).

Blades shall be on 19mm spacing, and shall run horizontal or vertical (short or long dimension) as shown.

Blades shall be positioned at 45° deflection angles, and held rigidly fixed in place by rear mullions welded to the grille frame. Corners shall be welded or staked for neat, uniform mitered corners.

Where scheduled, include aluminum opposed blade volume control dampers.

Finish shall be powder coated with RAL 9010 or custom color as specified by the Architect.

