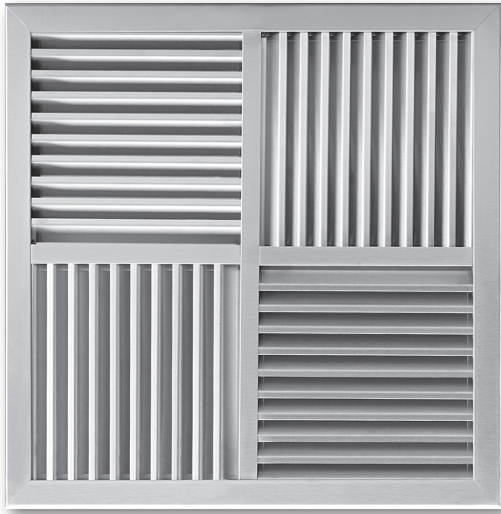


91240

Stainless Steel Supply Diffuser, Fixed Core



INTRODUCTION

The 91240 series diffuser features an exposed blade, architectural appearance and moderate throws for use in a variety of commercial applications. The four fixed cores can be situated to provide one-way to four-way blow patterns. The 91240 series diffuser is available for surface mount or T-bar applications.

MODEL

91240 - Fixed Core Diffuser

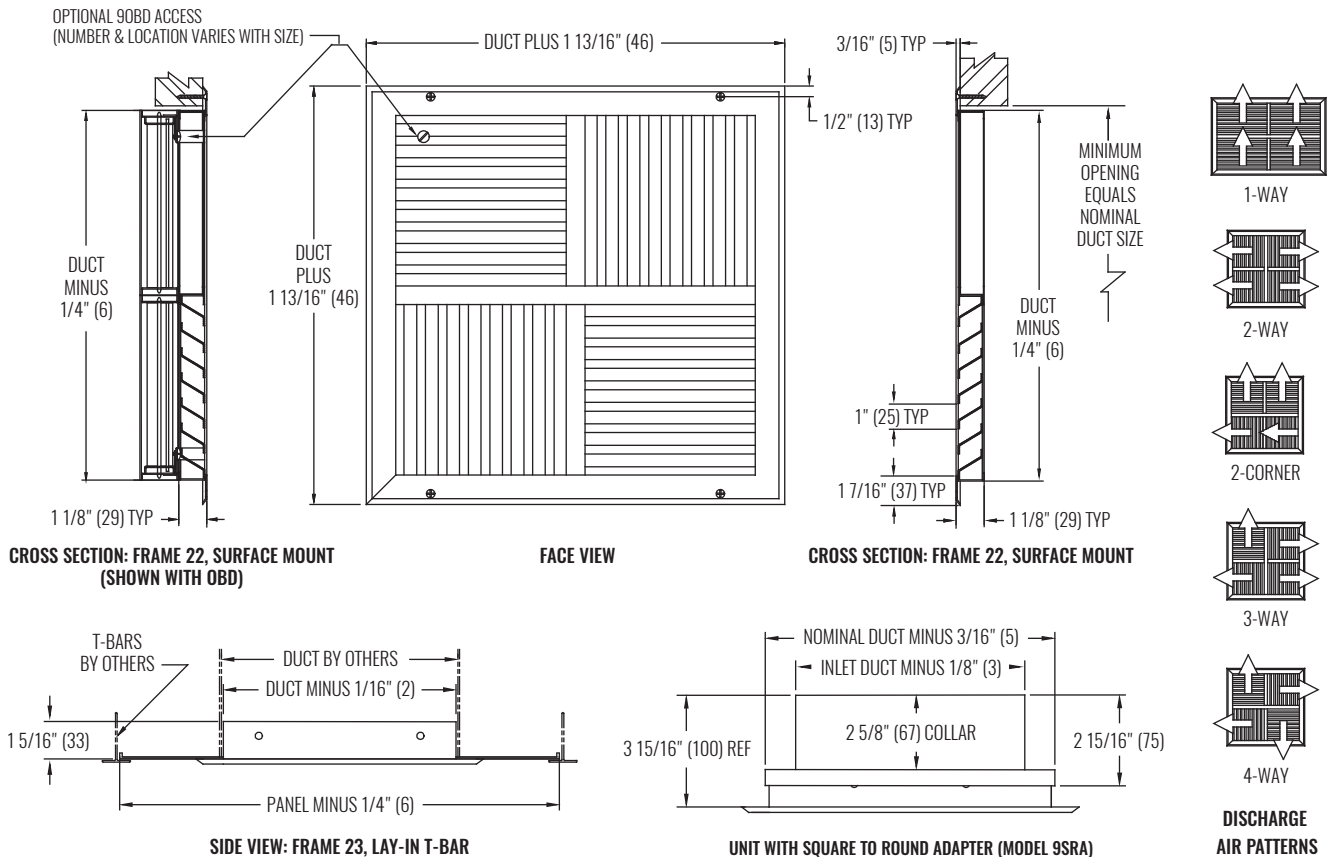
FEATURES

- 1, 2, 3, or 4-way discharge air patterns
- 304 stainless steel construction (316 optional)
- Countersunk screw holes in mounting frame
- Standard finish is 90 - #4 Satin Polish or 44 - British White

ACCESSORIES

- Stainless steel OBD welded to unit, adjustable from face of diffuser (model 90BD)
- Plaster frame (model 98PF)
- Square to round adapter (model 9SRA)

DIMENSIONAL DATA



NOTE: Dimensions in parentheses are millimeters (mm).

PERFORMANCE DATA | 1-CORE, NO DAMPER

		IP DATA				SOUND	METRIC DATA				
NOM DUCT	NECK VEL	AIR FLOW	Pt	1-CORE THROW	NOM DUCT		NECK VEL	AIR FLOW	Pt	1-CORE THROW	
in	fpm	cfm	in wg	ft	NC	cm	m/s	l/s	Pa	cm	
6 x 6	400	91	.038	5 - 7 - 9	<20	15.2 x 15.2	2.03	43	9.5	152 - 220 - 274	
	500	117	.108	6 - 9 - 11	<20		2.54	55	26.9	183 - 283 - 335	
	600	143	.155	7 - 10 - 13	20-25		3.05	67	38.6	213 - 315 - 396	
	700	169	.220	8 - 11 - 15	<30		3.56	80	54.8	244 - 346 - 457	
	800	182	.285	9 - 12 - 16	30		4.06	86	71.0	274 - 378 - 488	
	1000	234	.438	11 - 13 - 18	<40		5.08	110	109.1	335 - 409 - 549	
8 x 8	400	169	.038	8 - 10 - 12	<20	20.3 x 20.3	2.03	80	9.5	244 - 315 - 366	
	500	208	.108	9 - 12 - 14	<20		2.54	98	26.9	274 - 378 - 427	
	600	247	.155	10 - 14 - 17	20-25		3.05	117	38.6	305 - 441 - 518	
	700	286	.220	11 - 15 - 19	<30		3.56	135	54.8	335 - 472 - 579	
	800	338	.285	12 - 16 - 20	35		4.06	160	71.0	366 - 504 - 610	
	1000	416	.438	14 - 20 - 25	<40		5.08	196	109.1	427 - 630 - 762	
10 x 10	400	247	.038	10 - 12 - 14	<20	25.4 x 25.4	2.03	117	9.5	305 - 378 - 427	
	500	312	.108	10 - 14 - 18	<20		2.54	147	26.9	305 - 441 - 549	
	600	377	.155	12 - 16 - 20	<25		3.05	178	38.6	366 - 504 - 610	
	700	442	.220	13 - 17 - 21	30-35		3.56	209	54.8	396 - 535 - 640	
	800	494	.285	14 - 19 - 23	35-40		4.06	233	71.0	427 - 598 - 701	
	1000	624	.438	16 - 20 - 26	<45		5.08	294	109.1	488 - 630 - 792	
12 x 12	400	377	.038	10 - 14 - 18	<20	30.5 x 30.5	2.03	178	9.5	305 - 441 - 549	
	500	442	.108	12 - 16 - 20	20		2.54	209	26.9	366 - 504 - 610	
	600	546	.155	14 - 18 - 22	25		3.05	258	38.6	427 - 567 - 671	
	700	637	.220	15 - 18 - 23	30		3.56	301	54.8	457 - 567 - 701	
	800	728	.285	16 - 21 - 26	35		4.06	344	71.0	488 - 661 - 792	
	1000	910	.438	18 - 26 - 30	<45		5.08	429	109.1	549 - 818 - 914	
14 x 14	400	494	.038	12 - 16 - 20	<20	35.6 x 35.6	2.03	233	9.5	366 - 504 - 610	
	500	624	.108	14 - 18 - 24	20-25		2.54	294	26.9	427 - 567 - 732	
	600	754	.155	16 - 20 - 26	<30		3.05	356	38.6	488 - 630 - 792	
	700	871	.220	17 - 22 - 28	<35		3.56	411	54.8	518 - 693 - 853	
	800	1001	.285	18 - 23 - 29	<40		4.06	472	71.0	549 - 724 - 884	
	1000	1248	.438	20 - 28 - 36	<45		5.08	589	109.1	610 - 881 - 1097	
16 x 16	400	650	.038	13 - 18 - 24	<20	40.6 x 40.6	2.03	307	9.5	396 - 567 - 732	
	500	806	.108	16 - 22 - 27	20-25		2.54	380	26.9	488 - 693 - 823	
	600	975	.155	18 - 24 - 29	<30		3.05	460	38.6	549 - 756 - 884	
	700	1144	.220	19 - 24 - 30	<35		3.56	540	54.8	579 - 756 - 914	
	800	1300	.285	20 - 26 - 32	<40		4.06	614	71.0	610 - 818 - 975	
	1000	1638	.438	22 - 30 - 38	<45		5.08	773	109.1	671 - 944 - 1158	
18 x 18	400	830	.038	15 - 21 - 26	<20	45.7 x 45.7	2.03	392	9.5	457 - 661 - 792	
	500	1053	.108	18 - 25 - 30	20-25		2.54	497	26.9	549 - 787 - 914	
	600	1287	.155	24 - 30 - 36	30		3.05	607	38.6	732 - 944 - 1097	
	700	1482	.220	21 - 28 - 34	35		3.56	699	54.8	640 - 881 - 1036	
	800	1664	.285	22 - 29 - 36	<40		4.06	785	71.0	671 - 913 - 1097	
	1000	2080	.438	24 - 32 - 40	45		5.08	982	109.1	732 - 1007 - 1219	
20 x 20	400	988	.038	16 - 24 - 28	<20	50.8 x 50.8	2.03	466	9.5	488 - 756 - 853	
	500	1274	.108	20 - 26 - 32	20-25		2.54	601	26.9	610 - 818 - 975	
	600	1508	.155	22 - 28 - 35	25-30		3.05	712	38.6	671 - 881 - 1067	
	700	1768	.220	23 - 30 - 36	35-40		3.56	834	54.8	701 - 944 - 1097	
	800	2028	.285	24 - 31 - 40	40		4.06	957	71.0	732 - 976 - 1219	
	1000	2496	.438	26 - 34 - 44	45		5.08	1178	109.1	792 - 1070 - 1341	
24 x 24	400	1480	.038	18 - 26 - 32	<20	61.0 x 61.0	2.03	698	9.5	549 - 818 - 975	
	500	1820	.108	24 - 30 - 38	25		2.54	859	26.9	732 - 944 - 1158	
	600	2184	.155	28 - 36 - 44	25-30		3.05	1031	38.6	853 - 1133 - 1341	
	700	2548	.220	29 - 37 - 45	35-40		3.56	1203	54.8	884 - 1165 - 1372	
	800	2912	.285	31 - 39 - 45	40-45		4.06	1374	71.0	945 - 1228 - 1372	
	1000	3640	.438	26 - 41 - 49	45-50		5.08	1718	109.1	792 - 1291 - 1494	

NOTES: Throw values are given for terminal velocities of 100, 75, and 50 fpm. Throw values are given for isothermal conditions. NC values are based on Octave Band 2-7 sound power levels minus a room absorption of 10dB. Dash (-) in space denotes an NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

ENGINEERING SPECIFICATION & CONFIGURATION**91240**

The stainless steel fixed louvered core supply diffuser shall be Krueger model 91240. The diffuser's core shall be constructed of 304 stainless steel and be available with 1, 2, 3, and 4-way blow patterns. Blow patterns shall be fixed at manufacturing location and not be adjustable. The frame of the diffuser must be constructed of 20 gage 304 stainless steel with countersunk screw holes (#6x1 1/4" stainless steel sheet metal screws provided by manufacturer). This frame must also produce a border of 1 3/8" around all sides of the grille with mitered corners. Optional 304 stainless steel damper available made of 20 gage stainless steel welded to the bar grille and operable from the face.

Optional 316 stainless steel construction available.

FINISH

The finish shall be 90 - #4 Satin Polish, obtained by finishing with a 120-grit abrasive, or 44 - British White.

1. SERIES: (XXXXX)

91240 - Fixed Louvered Core Ceiling Diffuser

2. PATTERN: (XX)

01 - 1-Way
02 - 2-Way
2C - 2-Corner
03 - 3-Way
04 - 4-Way

3. WIDTH: (XX)

4" - 48" in 1" Increments

4. HEIGHT: (XX)

4" - 60" in 1" Increments

5. MATERIAL: (XXX)

304 - Stainless Steel Grade 304
316 - Stainless Steel Grade 316

6. FRAME STYLE: (XXX)

F22 - Surface Mount
F23 - Lay-in T-Bar

7. PANEL: (XX)x(XX)

None
24"x24"

8. FASTENING METHOD: (XX)

00 - No Screw Holes
01 - Countersunk Screw Holes *

9. DAMPER: (XX)

00 - No Damper
01 - Stainless Steel OBD **

10. ACCESSORIES: (XX) (XX)

00 - No Accessories
01 - Plaster Frame
XX - Square to Round Adapter ***
(Specify size from 04 - 18" in increments of 2", depending on neck size)

11. FINISH: (XX)

90 - #4 Satin Polish
44 - British White

* Unit is shipped with #6x1 1/4" stainless steel sheet metal screws.

** Damper is welded to unit.

*** Square to Round Adapter is not available with OBD.

SAMPLE CONFIGURATION: 91240 - 04 - 10x10 - 304 - F23 - 24x24 - 00 - 01 - 00 - 00 - 90