

DFL Performance Data: For Lay-In T-Bar (DFB) & Narrow-T (DFNT), Horizontal Throw -
IP/METRIC DATA: DFB/DFNT, 1-SLOT (HT BLADES)

	Linear Length	IP Data					NC	Metric Data				Octave Band, dB						
		Air Flow	Pressures		1-Way Throw	Air Flow		Pressures		1-Way Throw	2	3	4	5	6	7		
			Pt	Ps				Pt	Ps									
		CFM	"WG	"WG	ft	L/s		Pa	Pa	m								
1" Slot Width 6" Inlet	2'	30	0.010	0.009	2 - 4 - 9	-	14	2.6	2.2	0.6 - 1.3 - 2.6	28	26	13	-	-	-		
		80	0.074	0.062	8 - 12 - 17	23	38	18.3	15.4	2.3 - 3.5 - 5.2	43	45	36	29	22	14		
		105	0.127	0.107	10 - 14 - 20	30	50	31.6	26.6	3.1 - 4.2 - 6.0	47	51	43	36	30	22		
		130	0.194	0.164	12 - 15 - 22	35	61	48.4	40.8	3.8 - 4.7 - 6.6	51	55	48	42	37	29		
		180	0.372	0.314	15 - 18 - 26	42	85	92.7	78.2	4.5 - 5.5 - 7.8	56	62	56	50	47	38		
	4'	60	0.015	0.009	3 - 6 - 12	-	28	3.8	2.2	0.8 - 1.8 - 3.7	30	28	14	-	-	-		
		130	0.071	0.041	9 - 13 - 22	22	61	17.8	10.2	2.7 - 4.0 - 6.6	42	44	32	25	16	-		
		165	0.115	0.066	11 - 17 - 25	27	78	28.6	16.4	3.4 - 5.1 - 7.5	45	49	38	31	23	16		
		200	0.169	0.097	14 - 19 - 27	32	94	42.1	24.1	4.1 - 5.8 - 8.2	48	53	42	36	29	22		
		270	0.308	0.177	18 - 22 - 31	39	127	76.7	44.0	5.5 - 6.8 - 9.6	53	59	49	44	38	31		
	5'	80	0.021	0.010	3 - 7 - 15	-	38	5.3	2.5	1.0 - 2.2 - 4.4	31	30	15	-	-	-		
		170	0.097	0.045	10 - 15 - 25	24	80	24.1	11.2	3.1 - 4.7 - 7.6	43	46	33	26	17	-		
		215	0.155	0.072	13 - 20 - 28	30	101	38.6	17.8	4.0 - 6.0 - 8.5	47	50	39	33	24	17		
		260	0.227	0.105	16 - 22 - 31	34	123	56.4	26.1	4.8 - 6.6 - 9.4	50	54	43	38	30	23		
		350	0.411	0.190	21 - 25 - 36	41	165	102.3	47.3	6.3 - 7.7 - 10.9	54	60	51	46	40	32		
1" Slot Width 8" Inlet	2'	40	0.017	0.016	3 - 6 - 12	-	19	4.1	3.9	1.0 - 1.8 - 3.5	33	32	21	12	-	-		
		90	0.084	0.078	9 - 13 - 18	25	42	20.9	19.5	2.6 - 3.9 - 5.5	46	48	41	33	27	19		
		115	0.137	0.128	11 - 15 - 21	31	54	34.2	31.9	3.4 - 4.4 - 6.2	49	53	46	40	35	27		
		140	0.203	0.190	13 - 16 - 23	36	66	50.7	47.3	4.0 - 4.9 - 6.9	53	57	51	45	41	33		
		190	0.375	0.350	15 - 19 - 26	43	90	93.3	87.1	4.6 - 5.7 - 8.0	57	63	58	53	51	42		
	4'	70	0.015	0.012	4 - 7 - 14	-	33	3.8	3.0	1.1 - 2.2 - 4.3	33	32	19	-	-	-		
		150	0.070	0.055	10 - 15 - 23	25	71	17.4	13.6	3.1 - 4.6 - 7.1	45	47	37	30	22	14		
		190	0.112	0.087	13 - 19 - 26	30	90	28.0	21.8	3.9 - 5.7 - 8.0	48	52	43	36	29	22		
		230	0.165	0.128	16 - 21 - 29	35	109	41.0	31.9	4.8 - 6.2 - 8.8	51	56	47	41	35	27		
		310	0.299	0.233	19 - 24 - 34	42	146	74.4	58.0	5.9 - 7.2 - 10.2	56	62	54	49	44	36		
	5'	90	0.018	0.013	4 - 8 - 16	-	42	4.5	3.1	1.3 - 2.5 - 5.0	34	33	20	11	-	-		
		190	0.081	0.056	12 - 17 - 26	26	90	20.1	13.9	3.5 - 5.3 - 8.0	46	48	38	31	22	15		
		240	0.129	0.089	15 - 21 - 30	32	113	32.1	22.2	4.4 - 6.4 - 9.0	49	53	43	37	30	22		
		290	0.188	0.130	18 - 23 - 33	36	137	46.9	32.5	5.4 - 7.0 - 9.9	52	57	48	42	36	28		
		390	0.341	0.236	22 - 27 - 38	43	184	84.8	58.7	6.6 - 8.1 - 11.5	57	63	55	50	45	37		
1.5" Slot Width 8" Inlet	2'	70	0.027	0.026	6 - 8 - 16	-	33	6.8	6.4	1.8 - 2.7 - 4.7	30	29	20	12	-	-		
		130	0.101	0.089	10 - 15 - 21	20	61	25.1	22.2	3.3 - 4.6 - 6.5	43	44	36	31	25	15		
		160	0.153	0.135	13 - 17 - 24	26	76	38.0	33.6	4.0 - 5.1 - 7.2	47	49	41	37	32	22		
		190	0.215	0.191	15 - 18 - 26	30	90	53.6	47.4	4.5 - 5.5 - 7.8	51	53	46	42	39	29		
		250	0.373	0.330	17 - 21 - 30	37	118	92.8	82.1	5.2 - 6.3 - 9.0	57	60	53	51	49	39		
	4'	110	0.024	0.016	6 - 9 - 18	-	52	6.0	4.0	2.0 - 2.9 - 5.9	30	29	18	-	-	-		
		210	0.089	0.058	12 - 18 - 27	22	99	22.0	14.5	3.8 - 5.6 - 8.2	44	44	34	29	21	12		
		260	0.136	0.089	15 - 21 - 30	28	123	33.8	22.2	4.6 - 6.5 - 9.1	48	50	40	35	29	20		
		310	0.193	0.127	17 - 23 - 33	33	146	48.0	31.6	5.5 - 7.1 - 10.0	52	54	44	40	35	26		
		410	0.337	0.222	22 - 27 - 38	40	193	84.0	55.2	6.6 - 8.1 - 11.5	58	61	52	49	45	37		
	5'	140	0.030	0.017	7 - 10 - 21	-	66	7.5	4.1	2.2 - 3.4 - 6.7	32	31	19	11	-	-		
		250	0.096	0.053	12 - 19 - 30	24	118	23.8	13.1	4.0 - 6.0 - 9.0	45	45	34	28	20	12		
		305	0.143	0.079	15 - 23 - 33	29	144	35.5	19.6	4.9 - 7.0 - 9.9	49	50	39	34	27	19		
		360	0.199	0.109	18 - 25 - 35	33	170	49.5	27.2	5.8 - 7.6 - 10.8	52	54	44	39	34	25		
		470	0.339	0.187	23 - 29 - 40	40	222	84.3	46.4	7.1 - 8.7 - 12.3	58	60	50	47	43	35		
1.5" Slot Width 10" Inlet	2'	80	0.035	0.034	6 - 9 - 17	-	38	8.7	8.4	2.0 - 3.0 - 5.1	32	31	23	16	-	-		
		140	0.111	0.103	11 - 16 - 22	20	66	27.5	25.8	3.5 - 4.7 - 6.7	44	45	38	33	27	16		
		170	0.163	0.153	13 - 17 - 24	25	80	40.6	38.0	4.3 - 5.2 - 7.4	48	49	43	39	34	24		
		200	0.226	0.211	15 - 19 - 26	29	94	56.2	52.6	4.6 - 5.7 - 8.0	51	53	47	43	40	30		
		260	0.381	0.357	17 - 21 - 30	36	123	94.9	88.8	5.3 - 6.5 - 9.1	57	59	54	51	50	40		
	4'	140	0.033	0.026	8 - 12 - 22	-	66	8.2	6.4	2.5 - 3.8 - 6.7	34	34	23	16	-	-		
		240	0.097	0.076	13 - 20 - 29	24	113	24.1	18.9	4.3 - 6.2 - 8.8	46	46	37	32	25	16		
		290	0.142	0.111	16 - 22 - 32	29	137	35.2	27.6	5.2 - 6.8 - 9.7	50	51	42	38	32	23		
		340	0.195	0.153	19 - 24 - 34	33	160	48.4	38.0	6.0 - 7.4 - 10.5	53	55	46	43	38	29		
		440	0.326	0.255	23 - 28 - 39	40	208	81.1	63.6	6.9 - 8.4 - 11.9	58	61	53	50	47	38		
	5'	170	0.035	0.024	8 - 13 - 24	11	80	8.7	6.1	2.7 - 4.1 - 7.4	35	35	24	16	-	-		
		280	0.095	0.066	14 - 21 - 31	24	132	23.6	16.5	4.5 - 6.7 - 9.5	46	47	37	31	24	15		
		335	0.136	0.095	17 - 24 - 34	29	158	33.8	23.6	5.4 - 7.3 - 10.4	50	51	41	37	31	22		
		390	0.184	0.128	19 - 26 - 37	33	184	45.8	32.0	6.2 - 7.9 - 11.2	53	55	45	41	36	27		
		500	0.302	0.211	24 - 30 - 42	40	236	75.2	52.6	7.3 - 9.0 - 12.7	58	61	52	49	45	37		

LINEAR SLOT DIFFUSERS

DESIGN FLO

NOTE: See notes on page E1-23.

DFL Performance Data: For Lay-In T-Bar (DFB) & Narrow-T (DFNT), Horizontal Throw -

IP/METRIC DATA: DFB/DFNT, 1-SLOT (HT BLADES)

	Linear Length	IP Data				NC	Metric Data				Octave Band, dB						
		Air Flow	Pressures		1-Way Throw		Air Flow	Pressures		1-Way Throw	2	3	4	5	6	7	
			Pt	Ps				Pt	Ps								
		CFM	"WG	"WG	ft		L/s	Pa	Pa	m							
2" Slot Width	2'	80	0.029	0.027	8 - 11 - 15	-	38	7.2	6.8	2.4 - 3.2 - 4.6	39	33	22	14	-	-	
		140	0.097	0.084	11 - 14 - 20	22	66	24.3	20.9	3.5 - 4.3 - 6.0	47	45	36	31	26	12	
		170	0.144	0.124	13 - 15 - 22	27	80	35.8	30.8	3.8 - 4.7 - 6.7	50	49	41	37	34	20	
		200	0.199	0.171	14 - 17 - 24	31	94	49.5	42.7	4.2 - 5.1 - 7.2	52	52	45	42	40	28	
	260	0.336	0.290	16 - 19 - 27	38	123	83.7	72.1	4.7 - 5.8 - 8.2	56	57	51	50	51	39		
	4'	120	0.025	0.015	9 - 13 - 18	-	57	6.3	3.8	2.6 - 3.9 - 5.6	36	32	19	-	-	-	
		240	0.101	0.062	15 - 18 - 26	24	113	25.2	15.4	4.6 - 5.6 - 7.9	46	46	36	30	23	11	
		300	0.158	0.096	17 - 21 - 29	29	142	39.4	24.0	5.1 - 6.2 - 8.8	49	51	41	37	32	20	
		360	0.228	0.139	18 - 23 - 32	34	170	56.8	34.6	5.6 - 6.8 - 9.7	52	54	46	42	39	28	
	8' Inlet	480	0.405	0.247	21 - 26 - 37	42	227	100.9	61.4	6.5 - 7.9 - 11.2	56	60	53	51	51	41	
		150	0.031	0.015	10 - 14 - 21	-	71	7.7	3.8	2.9 - 4.3 - 6.2	37	33	20	-	-	-	
		290	0.116	0.058	16 - 20 - 29	24	137	28.8	14.4	5.0 - 6.1 - 8.7	46	47	36	30	22	11	
360		0.178	0.089	18 - 23 - 32	30	170	44.3	22.1	5.6 - 6.8 - 9.7	49	51	41	37	31	20		
5'	430	0.254	0.127	20 - 25 - 35	35	203	63.2	31.6	6.1 - 7.5 - 10.6	51	55	45	42	38	28		
	570	0.446	0.223	23 - 28 - 40	42	269	111.1	55.4	7.0 - 8.6 - 12.2	55	61	52	51	50	40		
	10" Slot Width	2'	90	0.036	0.035	9 - 11 - 16	-	42	8.9	8.6	2.7 - 3.4 - 4.8	42	35	25	17	-	-
			160	0.119	0.110	12 - 15 - 21	24	76	29.6	27.3	3.7 - 4.6 - 6.5	50	47	39	35	31	17
195			0.177	0.163	14 - 17 - 23	29	92	44.0	40.6	4.1 - 5.0 - 7.1	53	51	44	41	39	25	
230			0.246	0.227	15 - 18 - 25	34	109	61.2	56.4	4.5 - 5.5 - 7.7	55	54	48	46	46	33	
300		0.418	0.386	17 - 21 - 29	41	142	104.1	96.0	5.1 - 6.2 - 8.8	59	60	54	54	57	44		
4'		150	0.032	0.024	11 - 15 - 21	-	71	8.0	6.0	3.2 - 4.4 - 6.2	40	36	24	16	-	-	
		270	0.105	0.078	16 - 19 - 28	25	127	26.0	19.4	4.8 - 5.9 - 8.4	49	48	38	33	27	15	
		330	0.156	0.117	18 - 22 - 30	31	156	38.9	29.0	5.4 - 6.6 - 9.3	51	52	43	39	36	23	
		390	0.218	0.163	19 - 23 - 33	35	184	54.3	40.6	5.8 - 7.1 - 10.1	54	55	47	44	42	31	
5'		510	0.373	0.279	22 - 27 - 38	42	241	92.9	69.4	6.7 - 8.1 - 11.5	57	61	54	53	53	42	
		170	0.030	0.020	11 - 15 - 22	-	80	7.5	4.9	3.3 - 4.7 - 6.7	39	35	23	14	-	-	
		310	0.101	0.066	17 - 21 - 30	25	146	25.1	16.4	5.2 - 6.4 - 9.0	48	47	37	32	25	13	
	380	0.151	0.099	19 - 23 - 33	30	179	37.7	24.6	5.7 - 7.0 - 9.9	51	52	42	38	33	22		
5' Inlet	450	0.212	0.139	21 - 25 - 36	35	212	52.9	34.6	6.2 - 7.7 - 10.8	53	55	46	43	40	29		
	590	0.365	0.239	24 - 29 - 41	42	278	90.9	59.4	7.2 - 8.8 - 12.4	57	61	53	51	51	41		
	2.5" Slot Width	2'	140	0.050	0.043	9 - 11 - 15	11	66	12.5	10.8	2.7 - 3.3 - 4.6	36	35	28	23	16	-
			240	0.148	0.127	12 - 14 - 20	26	113	36.9	31.6	3.5 - 4.3 - 6.1	47	48	41	38	34	18
290			0.216	0.186	13 - 16 - 22	32	137	53.8	46.2	3.8 - 4.7 - 6.7	52	52	45	43	40	24	
340			0.297	0.255	14 - 17 - 24	36	160	74.0	63.5	4.2 - 5.1 - 7.2	55	56	49	48	45	30	
440		0.498	0.427	16 - 19 - 27	43	208	123.9	106.4	4.7 - 5.8 - 8.2	61	62	55	55	54	39		
4'		170	0.026	0.016	8 - 12 - 17	-	80	6.6	4.0	2.3 - 3.5 - 5.1	36	34	25	20	11	-	
		310	0.088	0.053	13 - 16 - 23	27	146	21.9	13.2	4.0 - 4.9 - 6.9	49	48	40	37	31	18	
		380	0.132	0.080	14 - 18 - 25	32	179	32.9	19.8	4.4 - 5.4 - 7.6	53	53	45	42	38	25	
		450	0.185	0.112	16 - 19 - 27	37	212	46.2	27.8	4.8 - 5.9 - 8.3	57	57	49	47	43	31	
5' Inlet		590	0.319	0.192	18 - 22 - 31	45	278	79.3	47.8	5.5 - 6.7 - 9.5	63	63	55	54	52	41	
		200	0.029	0.014	8 - 12 - 18	12	94	7.1	3.5	2.5 - 3.7 - 5.5	38	36	27	22	13	-	
		340	0.083	0.041	14 - 17 - 24	27	160	20.6	10.2	4.2 - 5.1 - 7.2	49	49	40	36	31	18	
	410	0.120	0.059	15 - 18 - 26	32	193	30.0	14.8	4.6 - 5.6 - 7.9	53	53	44	42	37	25		
5' Inlet	480	0.165	0.081	16 - 20 - 28	37	227	41.1	20.3	5.0 - 6.1 - 8.6	57	57	48	46	42	31		
	620	0.276	0.136	19 - 23 - 32	44	293	68.6	33.8	5.6 - 6.9 - 9.8	62	63	54	53	50	40		
	12" Slot Width	2'	150	0.053	0.050	9 - 11 - 16	-	71	13.1	12.4	2.8 - 3.4 - 4.8	32	31	24	20	12	-
			260	0.158	0.149	12 - 15 - 21	22	123	39.4	37.1	3.6 - 4.5 - 6.3	44	44	38	35	30	11
315			0.232	0.219	13 - 16 - 23	27	149	57.8	54.5	4.0 - 4.9 - 6.9	48	48	42	40	36	18	
370			0.320	0.302	14 - 18 - 25	31	175	79.8	75.2	4.3 - 5.3 - 7.5	51	52	46	45	41	24	
480		0.539	0.508	16 - 20 - 28	39	227	134.3	126.6	5.0 - 6.1 - 8.6	57	58	53	52	50	33		
4'		180	0.022	0.018	8 - 12 - 17	-	85	5.5	4.5	2.5 - 3.7 - 5.3	31	30	22	16	-	-	
		340	0.079	0.064	14 - 17 - 24	22	160	19.7	15.9	4.2 - 5.1 - 7.2	45	45	37	34	28	12	
		420	0.121	0.097	15 - 19 - 26	28	198	30.1	24.2	4.6 - 5.7 - 8.0	50	50	42	40	35	19	
		500	0.172	0.138	17 - 20 - 29	33	236	42.7	34.3	5.1 - 6.2 - 8.8	54	54	47	44	40	26	
5' Inlet		660	0.299	0.240	19 - 23 - 33	41	311	74.4	59.8	5.8 - 7.1 - 10.1	60	60	53	52	50	36	
		210	0.021	0.016	8 - 13 - 19	-	99	5.4	3.9	2.6 - 3.9 - 5.7	33	32	23	18	-	-	
		380	0.070	0.051	14 - 18 - 25	23	179	17.5	12.7	4.4 - 5.4 - 7.6	46	46	38	34	28	13	
	465	0.105	0.076	16 - 20 - 28	29	219	26.2	19.0	4.9 - 6.0 - 8.4	51	50	43	40	35	20		
5' Inlet	550	0.147	0.107	17 - 21 - 30	34	260	36.7	26.6	5.3 - 6.5 - 9.2	54	54	47	44	40	26		
	720	0.253	0.183	20 - 24 - 35	41	340	62.9	45.6	6.1 - 7.4 - 10.5	60	61	53	52	49	36		

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LINEAR SLOT DIFFUSERS

DESIGN FLO

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	Linear Length	IP Data				NC	Metric Data				Octave Band, dB						
		Air Flow	Pressures		1-Way Throw		Air Flow	Pressures		1-Way Throw	2	3	4	5	6	7	
			Pt	Ps				Pt	Ps								
		CFM	"WG	"WG	ft		L/s	Pa	Pa	m							
3" Slot Width 10" Inlet	2'	170	0.053	0.046	11 - 13 - 18	25	80	13.3	11.5	3.2 - 3.9 - 5.5	38	37	27	23	14	-	
		250	0.123	0.100	13 - 16 - 22	36	118	30.6	24.9	3.9 - 4.7 - 6.7	46	46	37	34	27	12	
		290	0.165	0.135	14 - 17 - 24	40	137	41.2	33.6	4.2 - 5.1 - 7.2	50	49	41	38	32	17	
		330	0.214	0.175	15 - 18 - 25	43	156	53.3	43.5	4.4 - 5.4 - 7.7	52	52	44	42	36	21	
		410	0.331	0.269	16 - 20 - 28	49	193	82.3	67.1	5.0 - 6.1 - 8.6	57	57	49	48	44	28	
	4'	190	0.028	0.014	11 - 14 - 19	22	90	6.9	3.6	3.4 - 4.1 - 5.8	36	34	24	19	-	-	
		300	0.069	0.036	14 - 17 - 24	34	142	17.1	9.0	4.2 - 5.2 - 7.3	46	45	35	31	24	12	
		355	0.096	0.050	15 - 19 - 26	39	168	24.0	12.6	4.6 - 5.7 - 8.0	50	49	40	36	30	17	
		410	0.128	0.067	16 - 20 - 28	43	193	32.0	16.8	5.0 - 6.1 - 8.6	53	52	43	40	35	22	
		520	0.207	0.108	18 - 22 - 32	49	245	51.5	27.0	5.6 - 6.8 - 9.7	58	58	49	47	43	30	
	5'	200	0.025	0.010	11 - 14 - 20	21	94	6.2	2.6	3.4 - 4.2 - 6.0	36	34	23	18	-	-	
		320	0.064	0.026	14 - 18 - 25	34	151	15.8	6.5	4.4 - 5.4 - 7.6	46	45	35	31	24	12	
		380	0.090	0.037	16 - 19 - 27	39	179	22.3	9.2	4.8 - 5.8 - 8.3	50	49	39	36	29	18	
		440	0.120	0.050	17 - 21 - 29	43	208	29.9	12.4	5.1 - 6.3 - 8.9	53	52	43	40	34	23	
		560	0.194	0.080	19 - 23 - 33	49	264	48.4	20.0	5.8 - 7.1 - 10.0	58	58	49	47	43	31	
3" Slot Width 12" Inlet	2'	160	0.044	0.041	10 - 12 - 18	16	76	11.0	10.2	3.1 - 3.8 - 5.4	31	30	20	15	-	-	
		240	0.100	0.092	12 - 15 - 22	27	113	24.9	23.0	3.8 - 4.6 - 6.6	40	39	30	26	18	-	
		280	0.136	0.126	13 - 17 - 23	32	132	33.9	31.3	4.1 - 5.0 - 7.1	43	43	34	31	23	-	
		320	0.178	0.164	14 - 18 - 25	35	151	44.3	40.9	4.4 - 5.4 - 7.6	46	46	37	35	27	-	
		400	0.278	0.256	16 - 20 - 28	41	189	69.2	63.8	4.9 - 6.0 - 8.5	51	51	43	41	35	17	
	4'	190	0.019	0.014	11 - 14 - 19	15	90	4.8	3.6	3.4 - 4.1 - 5.8	30	29	18	12	-	-	
		330	0.058	0.044	15 - 18 - 25	30	156	14.5	10.9	4.4 - 5.4 - 7.7	42	42	32	28	19	-	
		400	0.086	0.064	16 - 20 - 28	35	189	21.3	16.0	4.9 - 6.0 - 8.5	47	46	37	33	26	11	
		470	0.118	0.089	17 - 21 - 30	40	222	29.4	22.0	5.3 - 6.5 - 9.2	50	50	41	38	31	16	
		610	0.199	0.149	20 - 24 - 34	47	288	49.6	37.1	6.0 - 7.4 - 10.5	56	56	47	45	40	25	
	5'	230	0.021	0.014	12 - 15 - 21	18	109	5.1	3.4	3.7 - 4.5 - 6.4	33	31	21	15	-	-	
		370	0.054	0.035	15 - 19 - 27	31	175	13.3	8.7	4.7 - 5.8 - 8.2	44	42	33	29	20	-	
		440	0.076	0.050	17 - 21 - 29	36	208	18.8	12.4	5.1 - 6.3 - 8.9	47	46	37	33	26	12	
		510	0.102	0.067	18 - 22 - 32	40	241	25.3	16.6	5.5 - 6.8 - 9.6	51	50	41	38	31	17	
		650	0.165	0.108	21 - 25 - 36	46	307	41.1	27.0	6.2 - 7.6 - 10.8	56	56	47	44	39	26	

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). NC values are based on octave band 2-7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. For return applications, add 3 NC to supply data; static pressure is equal to supply total pressure. See selection software for performance data not shown, including octave band data.

DFL Performance Data: For Lay-In T-Bar (DFB) & Narrow-T (DFNT), Horizontal Throw

IP/METRIC DATA: DFB/DFNT, 2-SLOT (HT BLADES)

Linear Length	Slot Width	Inlet	IP Data					Metric Data					Octave Band, dB							
			Air Flow	Pressure		1-Way Throw	2-Way Throw	NC	Air Flow	Pressure		1-Way Throw	2-Way Throw							
			CFM	"WG	"WG	ft	ft		L/s	Pa	Pa	m	m	2	3	4	5	6	7	
3"	2'	160	0.022	0.010	9 - 12 - 18	7 - 9 - 12	17	76	5.5	2.6	3.0 - 3.8 - 5.4	2.1 - 2.7 - 3.8	32	30	20	14	-	-		
		260	0.052	0.027	13 - 16 - 22	9 - 11 - 16	31	123	12.9	6.7	3.9 - 4.8 - 6.8	2.8 - 3.4 - 4.8	43	42	32	27	20	-		
		310	0.073	0.039	14 - 17 - 25	10 - 12 - 17	35	146	18.3	9.6	4.3 - 5.3 - 7.5	3.0 - 3.7 - 5.3	47	46	36	32	25	13		
		360	0.099	0.052	15 - 19 - 26	11 - 13 - 19	39	170	24.7	12.9	4.6 - 5.7 - 8.0	3.3 - 4.0 - 5.7	50	49	40	37	31	18		
		460	0.162	0.085	17 - 21 - 30	12 - 15 - 21	46	217	40.3	21.1	5.3 - 6.4 - 9.1	3.7 - 4.5 - 6.4	55	55	46	43	39	26		
	4'	200	0.019	0.004	8 - 13 - 20	6 - 9 - 14	17	94	4.6	1.0	2.7 - 4.0 - 6.0	1.9 - 2.8 - 4.2	33	30	19	12	-	-		
		320	0.048	0.010	13 - 18 - 25	9 - 12 - 18	30	151	11.8	2.6	4.3 - 5.4 - 7.6	3.0 - 3.8 - 5.4	43	41	31	26	18	-		
		380	0.067	0.014	16 - 19 - 27	11 - 14 - 19	35	179	16.7	3.6	4.8 - 5.8 - 8.3	3.4 - 4.1 - 5.8	47	45	35	30	23	14		
		440	0.090	0.019	17 - 21 - 29	12 - 15 - 21	39	208	22.4	4.8	5.1 - 6.3 - 8.9	3.6 - 4.4 - 6.3	50	48	39	35	28	19		
		560	0.145	0.031	19 - 23 - 33	13 - 17 - 23	45	264	36.2	7.8	5.8 - 7.1 - 10.0	4.1 - 5.0 - 7.1	56	54	45	41	36	27		
	5'	220	0.021	0.003	7 - 12 - 21	5 - 9 - 15	18	104	5.2	0.8	2.5 - 3.9 - 6.3	1.8 - 2.8 - 4.4	34	31	20	13	-	-		
		350	0.052	0.008	13 - 18 - 26	9 - 13 - 18	31	165	13.1	2.0	4.2 - 5.6 - 7.9	2.9 - 4.0 - 5.6	44	41	31	26	18	-		
415		0.074	0.011	15 - 20 - 28	11 - 14 - 20	35	196	18.3	2.7	4.9 - 6.1 - 8.6	3.5 - 4.3 - 6.1	48	45	36	30	24	15			
480		0.099	0.015	18 - 22 - 31	12 - 15 - 22	39	227	24.5	3.7	5.4 - 6.6 - 9.3	3.8 - 4.6 - 6.6	51	49	39	34	28	20			
610		0.159	0.024	20 - 24 - 34	14 - 17 - 24	46	288	39.6	5.9	6.0 - 7.4 - 10.5	4.3 - 5.2 - 7.4	56	54	45	41	36	28			
3"	2'	200	0.022	0.016	11 - 14 - 20	8 - 10 - 14	16	94	5.5	4.0	3.5 - 4.2 - 6.0	2.4 - 3.0 - 4.2	31	30	19	14	-	-		
		320	0.055	0.041	14 - 18 - 25	10 - 12 - 18	29	151	13.6	10.2	4.4 - 5.4 - 7.6	3.1 - 3.8 - 5.4	42	41	31	27	18	-		
		380	0.077	0.058	16 - 19 - 27	11 - 14 - 19	34	179	19.2	14.4	4.8 - 5.8 - 8.3	3.4 - 4.1 - 5.8	46	45	35	32	24	-		
		440	0.104	0.078	17 - 21 - 29	12 - 15 - 21	38	208	25.8	19.3	5.1 - 6.3 - 8.9	3.6 - 4.4 - 6.3	49	48	39	36	29	14		
		560	0.168	0.126	19 - 23 - 33	13 - 17 - 23	44	264	41.8	31.3	5.8 - 7.1 - 10.0	4.1 - 5.0 - 7.1	54	54	45	43	37	22		
	4'	250	0.015	0.006	10 - 16 - 22	7 - 11 - 16	16	118	3.7	1.6	3.3 - 4.7 - 6.7	2.4 - 3.4 - 4.7	32	30	19	12	-	-		
		380	0.034	0.014	16 - 19 - 27	11 - 14 - 19	28	179	8.4	3.6	4.8 - 5.8 - 8.3	3.4 - 4.1 - 5.8	41	39	29	24	15	-		
		445	0.046	0.020	17 - 21 - 29	12 - 15 - 21	32	210	11.6	4.9	5.2 - 6.3 - 8.9	3.7 - 4.5 - 6.3	45	43	33	28	21	-		
		510	0.061	0.026	18 - 22 - 32	13 - 16 - 22	36	241	15.2	6.5	5.5 - 6.8 - 9.6	3.9 - 4.8 - 6.8	48	46	37	32	25	13		
		640	0.096	0.041	20 - 25 - 35	14 - 18 - 25	42	302	23.9	10.2	6.2 - 7.6 - 10.7	4.4 - 5.4 - 7.6	53	52	42	39	33	21		
	5'	280	0.016	0.005	10 - 16 - 23	7 - 11 - 17	17	132	3.9	1.3	3.3 - 5.0 - 7.1	2.4 - 3.5 - 5.0	33	31	20	13	-	-		
		430	0.037	0.012	16 - 20 - 29	11 - 14 - 20	29	203	9.1	3.0	5.1 - 6.2 - 8.8	3.6 - 4.4 - 6.2	43	41	30	25	17	-		
505		0.051	0.016	18 - 22 - 31	13 - 16 - 22	34	238	12.6	4.1	5.5 - 6.7 - 9.5	3.9 - 4.8 - 6.7	46	44	35	30	22	11			
580		0.067	0.022	19 - 24 - 34	14 - 17 - 24	37	274	16.6	5.4	5.9 - 7.2 - 10.2	4.2 - 5.1 - 7.2	49	48	38	33	27	16			
730		0.106	0.034	22 - 27 - 38	15 - 19 - 27	44	345	26.3	8.5	6.6 - 8.1 - 11.5	4.7 - 5.7 - 8.1	54	53	44	40	34	23			

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). NC values are based on octave band 2-7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. For return applications, add 3 NC to supply data; static pressure is equal to supply total pressure. See selection software for performance data not shown, including octave band data.

LINEAR SLOT DIFFUSERS

DESIGN FLO

DFL Performance Data: For Lay-In T-Bar (DFB) & Narrow-T (DFNT), Vertical Throw
IP/METRIC DATA: DFB/DFNT, 1-SLOT (VT BLADES)

Linear Length	IP Data	Metric Data						Octave Band, dB								
		Air Flow	Pressures		Perpendicular Throw	NC	Air Flow	Pressures		Perpendicular Throw	2	3	4	5	6	7
		CFM	"WG	"WG	ft		L/s	Pa	Pa	m						
1" Slot Width 8" Inlet	2'	120	0.040	0.030	2 - 4 - 7	-	57	10.0	7.5	0.7 - 1.1 - 2.3	34	32	24	19	11	-
		230	0.147	0.111	5 - 7 - 14	25	109	36.6	27.5	1.4 - 2.2 - 4.3	49	47	40	36	30	22
		285	0.226	0.170	6 - 9 - 18	30	135	56.2	42.3	1.8 - 2.7 - 5.3	53	52	45	41	36	29
		340	0.321	0.242	7 - 10 - 19	35	160	80.0	60.2	2.1 - 3.2 - 5.9	58	56	49	46	41	35
		450	0.563	0.423	9 - 14 - 22	42	212	140.1	105.4	2.8 - 4.2 - 6.8	64	62	56	53	50	44
	4'	140	0.024	0.010	1 - 2 - 6	-	66	5.9	2.6	0.3 - 0.7 - 1.9	31	32	22	15	-	-
		270	0.088	0.038	4 - 6 - 12	24	127	22.0	9.5	1.2 - 1.8 - 3.6	46	46	37	32	25	18
		335	0.136	0.059	5 - 7 - 15	30	158	33.8	14.6	1.5 - 2.2 - 4.4	51	51	43	38	31	25
		400	0.194	0.084	6 - 9 - 17	35	189	48.2	20.8	1.8 - 2.7 - 5.3	55	55	47	42	37	31
		530	0.340	0.147	8 - 12 - 23	42	250	84.7	36.6	2.3 - 3.5 - 7.0	61	61	54	50	45	40
	5'	150	0.023	0.008	1 - 2 - 6	-	71	5.7	1.9	0.3 - 0.6 - 1.8	30	32	21	15	-	-
		290	0.086	0.028	3 - 6 - 11	25	137	21.4	7.0	1.0 - 1.7 - 3.4	45	47	37	32	24	17
		360	0.133	0.043	5 - 7 - 14	31	170	33.0	10.8	1.4 - 2.1 - 4.3	50	51	42	37	30	24
		430	0.189	0.062	6 - 8 - 17	35	203	47.1	15.4	1.7 - 2.5 - 5.1	54	55	47	42	36	30
		570	0.332	0.109	7 - 11 - 22	43	269	82.7	27.1	2.3 - 3.4 - 6.8	61	62	53	49	44	39
1" Slot Width 12" Inlet	2'	100	0.022	0.021	1 - 3 - 6	-	47	5.5	5.2	0.5 - 0.9 - 1.9	22	18	12	-	-	-
		240	0.128	0.120	5 - 7 - 15	13	113	31.9	30.0	1.5 - 2.3 - 4.5	42	38	33	29	22	11
		310	0.214	0.201	6 - 10 - 18	20	146	53.3	50.0	1.9 - 2.9 - 5.6	48	44	39	35	29	19
		380	0.321	0.302	8 - 12 - 20	25	179	80.0	75.2	2.4 - 3.6 - 6.2	53	48	44	41	35	26
		520	0.602	0.565	11 - 16 - 24	33	245	149.8	140.8	3.3 - 4.9 - 7.3	60	55	51	49	45	37
	4'	140	0.013	0.010	1 - 2 - 6	-	66	3.2	2.6	0.3 - 0.7 - 1.9	23	22	13	-	-	-
		340	0.076	0.060	5 - 7 - 15	18	160	18.9	15.0	1.5 - 2.3 - 4.5	44	42	35	30	23	13
		440	0.127	0.101	6 - 10 - 19	24	208	31.7	25.2	1.9 - 2.9 - 5.8	49	47	41	37	30	21
		540	0.192	0.152	8 - 12 - 24	30	255	47.7	38.0	2.4 - 3.6 - 7.2	54	52	46	42	36	28
		740	0.360	0.286	11 - 16 - 29	38	349	89.6	71.3	3.3 - 4.9 - 8.7	61	59	53	50	45	39
	5'	150	0.011	0.008	1 - 2 - 6	-	71	2.6	1.9	0.3 - 0.6 - 1.8	23	22	13	-	-	-
		370	0.064	0.046	5 - 7 - 14	19	175	16.0	11.4	1.5 - 2.2 - 4.4	43	42	34	30	22	13
		480	0.108	0.077	6 - 9 - 19	25	227	26.9	19.2	1.9 - 2.8 - 5.7	49	48	41	36	30	21
		590	0.163	0.116	8 - 12 - 23	31	278	40.7	29.0	2.3 - 3.5 - 7.0	54	53	46	42	36	28
		810	0.308	0.220	11 - 16 - 30	39	382	76.6	54.7	3.2 - 4.8 - 9.1	61	60	53	50	45	39
1.5" Slot Width 8" Inlet	2'	130	0.037	0.027	3 - 5 - 10	-	61	9.1	6.6	0.8 - 1.2 - 2.4	34	30	22	17	-	-
		260	0.153	0.106	7 - 10 - 17	24	123	38.1	26.5	1.6 - 2.4 - 4.9	49	46	38	34	28	19
		325	0.239	0.166	8 - 12 - 19	30	153	59.5	41.4	2.0 - 3.0 - 5.8	54	51	44	40	34	26
		390	0.344	0.239	10 - 15 - 21	35	184	85.7	59.6	2.4 - 3.7 - 6.3	58	56	48	44	39	32
		520	0.612	0.426	13 - 17 - 24	43	245	152.3	106.0	3.3 - 4.9 - 7.3	64	62	55	51	48	41
	4'	150	0.024	0.009	2 - 4 - 8	-	71	6.1	2.2	0.4 - 0.8 - 2.0	34	33	23	18	-	-
		290	0.091	0.033	5 - 8 - 15	27	137	22.6	8.2	1.3 - 1.9 - 3.8	49	48	39	35	28	21
		360	0.140	0.051	6 - 10 - 19	33	170	34.9	12.7	1.6 - 2.4 - 4.8	53	53	44	40	34	28
		430	0.200	0.073	8 - 11 - 22	37	203	49.8	18.1	1.9 - 2.9 - 5.7	57	57	48	45	39	34
		570	0.351	0.128	10 - 15 - 25	45	269	87.5	31.8	2.5 - 3.8 - 7.6	63	64	55	52	48	43
	5'	160	0.024	0.006	2 - 4 - 8	11	76	6.0	1.6	0.3 - 0.7 - 1.9	35	35	24	19	-	-
		300	0.085	0.023	5 - 7 - 14	28	142	21.1	5.6	1.0 - 1.8 - 3.6	48	49	39	35	28	22
		370	0.129	0.034	6 - 9 - 18	33	175	32.0	8.6	1.5 - 2.2 - 4.4	53	54	44	40	34	29
		440	0.182	0.049	7 - 11 - 21	38	208	45.3	12.1	1.7 - 2.6 - 5.2	57	58	48	44	39	35
		580	0.316	0.085	9 - 14 - 25	46	274	78.7	21.1	2.3 - 3.4 - 6.9	63	64	55	51	47	44
1.5" Slot Width 12" Inlet	2'	160	0.042	0.040	4 - 6 - 12	-	76	10.4	10.0	1.0 - 1.5 - 3.0	28	21	14	-	-	-
		360	0.221	0.204	9 - 14 - 20	14	170	55.1	50.8	2.3 - 3.4 - 6.1	45	39	33	28	21	-
		460	0.361	0.333	12 - 16 - 23	21	217	90.0	82.9	2.9 - 4.3 - 6.8	51	45	39	34	28	16
		560	0.536	0.494	14 - 18 - 25	26	264	133.4	122.9	3.5 - 5.3 - 7.6	55	49	44	39	33	22
		760	0.987	0.909	17 - 20 - 29	34	359	245.7	226.3	4.8 - 6.2 - 8.8	61	56	51	46	42	32
	4'	240	0.030	0.023	4 - 6 - 13	-	113	7.6	5.6	0.9 - 1.6 - 3.2	34	29	21	15	-	-
		440	0.102	0.076	8 - 12 - 22	20	208	25.4	19.0	1.9 - 2.9 - 5.8	47	43	36	31	24	13
		540	0.154	0.115	10 - 14 - 24	25	255	38.3	28.6	2.4 - 3.6 - 7.2	51	48	40	36	29	20
		640	0.216	0.161	11 - 17 - 27	30	302	53.8	40.1	2.8 - 4.2 - 8.1	55	52	44	40	34	25
		840	0.372	0.278	15 - 22 - 30	37	396	92.7	69.1	3.7 - 5.6 - 9.3	61	58	51	47	42	34
	5'	250	0.024	0.016	4 - 6 - 12	-	118	6.0	3.9	0.7 - 1.5 - 3.0	34	30	21	16	-	-
		450	0.078	0.051	7 - 11 - 22	20	212	19.5	12.7	1.8 - 2.7 - 5.3	46	44	35	31	23	14
		550	0.117	0.076	9 - 13 - 25	26	260	29.1	19.0	2.2 - 3.3 - 6.5	51	48	40	36	29	20
		650	0.163	0.106	10 - 16 - 27	30	307	40.6	26.5	2.6 - 3.9 - 7.7	54	52	44	40	34	25
		850	0.279	0.182	14 - 20 - 31	37	401	69.5	45.3	3.4 - 5.0 - 9.3	60	58	50	46	42	34

NOTE: See notes on page E1-29.

DFL Performance Data: For Lay-In T-Bar (DFB) & Narrow-T (DFNT), Vertical Throw

IP/METRIC DATA: DFB/DFNT, 1-SLOT (VT BLADES)

	Linear Length	IP Data					NC	Metric Data				Octave Band, dB						
		Air Flow	Pressures		Perpendicular Throw	Air Flow		Pressures		Perpendicular Throw	2	3	4	5	6	7		
		CFM	"WG	"WG	ft	L/s		Pa	Pa	m								
2" Slot Width 8" Inlet	2'	140	0.031	0.021	4 - 6 - 12	-	66	7.8	5.3	0.9 - 1.3 - 2.6	36	31	18	13	-	-		
		270	0.130	0.080	8 - 12 - 17	24	127	32.3	19.8	1.7 - 2.5 - 5.1	51	46	35	32	26	18		
		335	0.200	0.122	10 - 14 - 19	30	158	49.7	30.5	2.1 - 3.1 - 5.8	56	52	41	38	33	26		
		400	0.285	0.175	12 - 15 - 21	35	189	70.9	43.5	2.5 - 3.8 - 6.4	60	56	46	43	39	33		
		530	0.500	0.306	14 - 17 - 24	43	250	124.4	76.3	3.3 - 5.0 - 7.4	66	63	53	51	49	43		
	4'	160	0.025	0.007	3 - 5 - 10	-	76	6.1	1.7	0.4 - 0.9 - 2.1	31	28	16	11	-	-		
		320	0.098	0.028	7 - 10 - 19	23	151	24.5	7.0	1.4 - 2.1 - 4.2	46	45	34	30	24	16		
		400	0.154	0.044	8 - 12 - 21	29	189	38.3	10.9	1.8 - 2.7 - 5.3	51	50	40	37	32	24		
		480	0.221	0.063	10 - 15 - 23	34	227	55.1	15.6	2.1 - 3.2 - 6.4	56	54	45	42	38	31		
		640	0.394	0.112	13 - 19 - 27	42	302	98.0	27.8	2.8 - 4.2 - 8.1	62	61	53	50	47	41		
	5'	170	0.025	0.005	3 - 5 - 9	-	80	6.2	1.3	0.3 - 0.7 - 2.0	30	28	15	-	-	-		
		350	0.106	0.021	6 - 10 - 19	23	165	26.3	5.3	1.4 - 2.1 - 4.2	46	45	35	31	24	16		
		440	0.167	0.034	8 - 12 - 22	29	208	41.6	8.4	1.7 - 2.6 - 5.2	51	50	41	37	32	25		
		530	0.242	0.049	10 - 15 - 24	35	250	60.3	12.2	2.1 - 3.1 - 6.3	55	55	46	43	39	31		
		710	0.435	0.088	13 - 20 - 28	43	335	108.3	21.9	2.8 - 4.2 - 8.4	62	62	54	51	48	42		
	2" Slot Width 12" Inlet	2'	140	0.023	0.021	4 - 6 - 12	-	66	5.7	5.3	0.9 - 1.3 - 2.6	31	22	-	-	-	-	
			320	0.125	0.112	9 - 13 - 19	17	151	31.2	27.8	2.0 - 3.0 - 5.7	50	41	28	25	17	-	
			410	0.206	0.183	12 - 15 - 21	24	193	51.3	45.7	2.6 - 3.8 - 6.5	55	47	35	32	25	18	
500			0.306	0.273	14 - 17 - 23	29	236	76.3	67.9	3.1 - 4.7 - 7.1	60	52	40	38	32	25		
680			0.567	0.504	16 - 19 - 27	38	321	141.1	125.6	4.3 - 5.9 - 8.3	67	59	48	46	42	37		
4'		220	0.020	0.013	5 - 7 - 14	-	104	4.9	3.3	0.8 - 1.5 - 2.9	33	27	12	-	-	-		
		440	0.079	0.053	9 - 14 - 22	20	208	19.6	13.1	1.9 - 2.9 - 5.8	49	43	31	27	20	11		
		550	0.123	0.083	11 - 17 - 25	26	260	30.7	20.5	2.4 - 3.6 - 7.3	54	49	37	34	27	20		
		660	0.177	0.119	14 - 19 - 27	31	311	44.2	29.6	2.9 - 4.4 - 8.2	58	53	42	39	34	26		
		880	0.315	0.211	18 - 22 - 31	39	415	78.5	52.6	3.9 - 5.8 - 9.5	64	60	50	47	43	37		
5'		220	0.015	0.008	4 - 6 - 12	-	104	3.7	2.1	0.6 - 1.3 - 2.6	30	25	11	-	-	-		
		460	0.065	0.037	8 - 13 - 23	19	217	16.3	9.2	1.8 - 2.7 - 5.5	47	42	30	27	19	-		
		580	0.104	0.059	11 - 16 - 25	25	274	25.9	14.6	2.3 - 3.4 - 6.9	52	48	37	33	27	19		
		700	0.151	0.086	13 - 19 - 28	31	330	37.7	21.3	2.8 - 4.2 - 8.3	56	52	42	39	33	26		
		940	0.273	0.154	17 - 23 - 32	39	444	68.0	38.4	3.7 - 5.6 - 9.8	63	59	50	47	43	37		
2.5" Slot Width 10" Inlet		2'	160	0.031	0.022	5 - 8 - 13	-	76	7.7	5.4	1.6 - 2.4 - 4.0	36	31	20	15	-	-	
			360	0.157	0.110	12 - 14 - 20	26	170	39.2	27.4	3.5 - 4.3 - 6.1	52	48	39	35	30	20	
			460	0.257	0.180	13 - 16 - 23	32	217	64.0	44.8	4.0 - 4.8 - 6.8	57	53	44	41	37	27	
	560		0.381	0.267	14 - 18 - 25	36	264	94.8	66.4	4.4 - 5.3 - 7.6	61	57	49	46	43	33		
	760		0.701	0.491	17 - 20 - 29	44	359	174.6	122.3	5.1 - 6.2 - 8.8	68	63	56	53	51	43		
	4'	180	0.019	0.007	4 - 6 - 12	-	85	4.6	1.7	1.3 - 1.9 - 3.8	34	32	21	16	-	-		
		390	0.088	0.032	9 - 13 - 21	26	184	21.8	8.0	2.7 - 4.1 - 6.3	50	48	39	35	30	20		
		495	0.141	0.052	11 - 17 - 23	32	234	35.2	13.0	3.5 - 5.0 - 7.1	55	53	44	40	37	27		
		600	0.207	0.077	14 - 18 - 26	37	283	51.7	19.1	4.2 - 5.5 - 7.8	59	57	49	45	42	33		
		810	0.378	0.139	17 - 21 - 30	44	382	94.1	34.7	5.2 - 6.4 - 9.1	65	63	56	52	50	42		
	5'	190	0.018	0.005	4 - 6 - 12	-	90	4.5	1.2	1.2 - 1.8 - 3.6	34	33	22	16	-	-		
		410	0.084	0.023	8 - 13 - 21	27	193	20.9	5.7	2.6 - 3.8 - 6.5	50	48	40	35	30	20		
		520	0.135	0.037	11 - 16 - 24	33	245	33.6	9.2	3.3 - 4.9 - 7.3	54	53	45	41	37	28		
		630	0.198	0.054	13 - 19 - 26	37	297	49.4	13.4	3.9 - 5.7 - 8.0	58	57	49	45	42	34		
		850	0.361	0.098	17 - 22 - 31	44	401	89.9	24.5	5.3 - 6.6 - 9.3	64	63	56	53	51	43		
	2.5" Slot Width 12" Inlet	2'	170	0.028	0.025	6 - 8 - 14	-	80	7.1	6.1	1.7 - 2.5 - 4.2	32	25	14	-	-	-	
			420	0.174	0.150	12 - 15 - 22	21	198	43.2	37.3	3.8 - 4.6 - 6.5	50	44	34	31	25	13	
			545	0.292	0.253	14 - 17 - 25	27	257	72.8	62.9	4.3 - 5.3 - 7.5	56	49	40	37	32	21	
670			0.442	0.382	16 - 19 - 27	32	316	110.1	95.0	4.8 - 5.8 - 8.3	60	53	45	42	38	28		
920			0.833	0.720	18 - 23 - 32	39	434	207.5	179.2	5.6 - 6.8 - 9.7	66	60	52	50	47	37		
4'		200	0.014	0.009	5 - 7 - 14	-	94	3.5	2.1	1.4 - 2.1 - 4.2	31	27	16	-	-	-		
		470	0.077	0.047	11 - 16 - 23	22	222	19.1	11.7	3.3 - 4.9 - 6.9	49	45	35	31	25	14		
		605	0.127	0.078	14 - 18 - 26	28	286	31.6	19.4	4.2 - 5.6 - 7.9	54	50	41	37	32	22		
		740	0.190	0.116	16 - 20 - 29	33	349	47.3	29.0	5.0 - 6.1 - 8.7	58	54	46	42	38	28		
		1010	0.354	0.217	19 - 24 - 33	40	477	88.1	54.0	5.9 - 7.2 - 10.1	64	60	53	50	47	38		
5'		210	0.012	0.006	4 - 6 - 13	-	99	3.0	1.5	1.3 - 2.0 - 3.9	31	28	16	11	-	-		
		490	0.065	0.033	10 - 15 - 23	22	231	16.2	8.1	3.1 - 4.6 - 7.1	48	45	36	31	26	14		
		630	0.107	0.054	13 - 19 - 26	28	297	26.7	13.4	3.9 - 5.7 - 8.0	53	50	41	37	33	22		
		770	0.160	0.081	16 - 21 - 29	33	363	39.9	20.1	4.8 - 6.3 - 8.9	57	54	46	42	38	28		
		1050	0.298	0.150	20 - 24 - 34	41	496	74.2	37.3	6.0 - 7.3 - 10.3	64	61	53	50	47	38		

NOTE: See notes on page E1-29.

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LINEAR SLOT DIFFUSERS

DESIGN FLO

DFL Performance Data: For Lay-In T-Bar (DFB) & Narrow-T (DFNT), Vertical Throw
IP/METRIC DATA: DFB/DFNT, 1-SLOT (VT BLADES)

	Linear Length	IP Data				NC	Metric Data				Octave Band, dB					
		Air Flow	Pressures		Perpendicular Throw		Air Flow	Pressures		Perpendicular Throw						
		CFM	"WG	"WG	ft		L/s	Pa	Pa	m	2	3	4	5	6	7
3" Slot Width 10" Inlet	2'	170	0.028	0.019	6 - 9 - 14	-	80	7.0	4.7	1.7 - 2.5 - 4.2	36	32	21	16	-	-
		370	0.138	0.089	12 - 14 - 20	26	175	34.5	22.1	3.5 - 4.3 - 6.1	52	48	39	35	30	19
		470	0.223	0.143	13 - 16 - 23	32	222	55.6	35.6	4.0 - 4.9 - 6.9	57	53	45	40	36	26
		570	0.329	0.210	14 - 18 - 25	37	269	81.8	52.4	4.4 - 5.4 - 7.6	60	57	49	45	42	32
	770	0.600	0.384	17 - 21 - 29	44	363	149.3	95.6	5.1 - 6.3 - 8.9	67	63	56	52	50	42	
	4'	190	0.019	0.006	5 - 7 - 14	-	90	4.7	1.5	1.3 - 2.0 - 4.0	35	33	22	15	-	-
		400	0.084	0.026	10 - 15 - 21	27	189	20.9	6.5	2.8 - 4.2 - 6.4	50	48	39	33	28	19
		505	0.134	0.041	13 - 17 - 24	32	238	33.4	10.3	3.5 - 5.1 - 7.2	55	53	44	39	35	26
		610	0.196	0.060	15 - 18 - 26	37	288	48.7	15.0	4.3 - 5.6 - 7.9	59	57	48	44	41	32
	820	0.353	0.109	17 - 21 - 30	44	387	88.0	27.1	5.3 - 6.5 - 9.1	65	63	55	51	49	41	
	5'	200	0.019	0.004	5 - 7 - 14	-	94	4.7	1.0	1.3 - 1.9 - 3.8	35	33	22	16	-	-
		420	0.082	0.018	9 - 14 - 22	27	198	20.5	4.6	2.6 - 3.9 - 6.5	50	49	39	34	29	19
530		0.131	0.029	12 - 17 - 24	33	250	32.7	7.2	3.3 - 5.0 - 7.4	55	53	44	39	35	27	
640		0.191	0.042	14 - 19 - 27	37	302	47.7	10.6	4.0 - 5.7 - 8.1	58	57	49	44	41	33	
860	0.346	0.077	18 - 22 - 31	45	406	86.1	19.1	5.4 - 6.6 - 9.4	64	64	55	51	49	42		
3" Slot Width 12" Inlet	2'	180	0.025	0.021	6 - 10 - 14	-	85	6.2	5.2	1.8 - 2.7 - 4.3	31	26	15	-	-	-
		430	0.145	0.120	13 - 15 - 22	22	203	36.0	29.8	3.8 - 4.7 - 6.6	49	44	35	31	24	12
		555	0.241	0.199	14 - 17 - 25	28	262	60.0	49.7	4.3 - 5.3 - 7.5	54	50	41	37	31	20
		680	0.362	0.299	16 - 19 - 27	33	321	90.0	74.6	4.8 - 5.9 - 8.3	59	54	46	42	37	26
	930	0.676	0.560	18 - 23 - 32	40	439	168.4	139.5	5.6 - 6.9 - 9.7	65	60	53	49	46	36	
	4'	210	0.013	0.007	5 - 8 - 15	-	99	3.3	1.8	1.5 - 2.2 - 4.4	31	28	16	-	-	-
		490	0.071	0.039	12 - 16 - 23	23	231	17.7	9.7	3.4 - 5.0 - 7.1	48	45	36	31	25	13
		630	0.118	0.064	15 - 19 - 26	29	297	29.3	16.0	4.4 - 5.7 - 8.0	54	51	42	37	32	21
		770	0.176	0.096	17 - 21 - 29	34	363	43.7	23.9	5.1 - 6.3 - 8.9	58	55	46	42	37	28
	1050	0.327	0.178	20 - 24 - 34	41	496	81.3	44.4	6.0 - 7.3 - 10.3	64	61	53	49	46	37	
	5'	230	0.013	0.005	5 - 8 - 16	-	109	3.1	1.4	1.4 - 2.2 - 4.3	32	29	18	11	-	-
		510	0.062	0.027	11 - 17 - 24	23	241	15.4	6.7	3.2 - 4.8 - 7.2	48	46	36	31	25	14
650		0.101	0.044	15 - 19 - 27	29	307	25.0	10.9	4.1 - 5.8 - 8.1	53	51	42	36	32	21	
790		0.149	0.065	17 - 21 - 30	34	373	37.0	16.1	4.9 - 6.3 - 9.0	57	55	46	41	37	28	
1070	0.273	0.119	20 - 24 - 34	41	505	67.9	29.5	6.0 - 7.4 - 10.4	63	61	53	49	46	37		

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. For return applications, add 3 NC to supply data; static pressure is equal to supply total pressure. See selection software for performance data not shown, including octave band data.

DFL Performance Data: For Lay-In T-Bar (DFB) & Narrow-T (DFNT), Vertical Throw

IP/METRIC DATA: DFB/DFNT, 2-SLOT (VT BLADES)

Linear Length	IP Data	Metric Data					Octave Band, dB											
		Air Flow	Pressures		Perpendicular Throw	NC	Air Flow	Pressures		Perpendicular Throw								
			Pt	Ps				L/s	Pa		Pa							
			"WG	"WG				m	m		m	2	3	4	5	6	7	
CFM	"WG	"WG	ft		L/s	Pa	Pa	m	2	3	4	5	6	7				
1" Slot Width	2'	160	0.023	0.013	1 - 3 - 7	-	76	5.7	3.3	0.4 - 0.9 - 2.1	31	31	21	16	-	-		
		310	0.085	0.050	5 - 7 - 14	23	146	21.2	12.5	1.4 - 2.1 - 4.1	46	46	37	33	26	17		
		385	0.131	0.077	6 - 8 - 17	29	182	32.7	19.3	1.7 - 2.6 - 5.1	51	50	43	38	32	25		
		460	0.188	0.111	7 - 10 - 20	34	217	46.7	27.5	2.0 - 3.0 - 6.1	55	54	47	43	37	30		
		610	0.330	0.195	9 - 13 - 26	41	288	82.1	48.4	2.7 - 4.0 - 7.9	62	61	54	50	45	40		
	4'	180	0.016	0.004	1 - 1 - 5	-	85	4.0	1.1	0.2 - 0.4 - 1.7	27	29	18	11	-	-		
		380	0.071	0.019	3 - 6 - 12	24	179	17.8	4.7	0.8 - 1.8 - 3.6	44	46	36	30	22	15		
		480	0.114	0.030	4 - 7 - 15	30	227	28.4	7.5	1.3 - 2.3 - 4.5	49	51	41	36	29	22		
		580	0.166	0.044	6 - 9 - 18	35	274	41.4	10.9	1.8 - 2.7 - 5.4	54	55	46	41	34	29		
		780	0.301	0.080	8 - 12 - 24	43	368	74.9	19.8	2.4 - 3.7 - 7.3	61	62	53	49	43	38		
	5'	190	0.016	0.003	0 - 1 - 4	-	90	4.0	0.8	0.1 - 0.3 - 1.3	26	29	17	-	-	-		
		400	0.072	0.013	2 - 5 - 11	24	189	17.8	3.3	0.6 - 1.5 - 3.4	43	46	35	29	20	13		
		505	0.114	0.021	3 - 7 - 14	30	238	28.4	5.3	1.0 - 2.1 - 4.2	49	51	41	35	27	21		
		610	0.166	0.031	5 - 8 - 17	35	288	41.5	7.7	1.5 - 2.6 - 5.1	53	55	45	40	33	27		
		820	0.301	0.056	8 - 11 - 23	43	387	74.9	14.0	2.3 - 3.4 - 6.9	60	62	52	47	42	37		
12" Inlet	2'	170	0.019	0.015	2 - 3 - 7	-	80	4.7	3.8	0.5 - 1.0 - 2.3	28	26	18	12	-	-		
		370	0.090	0.072	5 - 8 - 16	20	175	22.4	17.8	1.6 - 2.5 - 4.9	45	44	37	32	25	16		
		470	0.145	0.115	7 - 10 - 20	26	222	36.1	28.8	2.1 - 3.1 - 6.2	51	49	42	38	32	24		
		570	0.214	0.170	8 - 12 - 25	31	269	53.2	42.3	2.5 - 3.8 - 7.6	55	53	47	43	38	30		
		770	0.390	0.310	11 - 17 - 29	39	363	97.0	77.2	3.4 - 5.1 - 8.9	62	60	54	51	47	40		
	4'	190	0.010	0.005	1 - 2 - 6	-	90	2.4	1.2	0.2 - 0.5 - 1.8	24	24	14	-	-	-		
		440	0.051	0.025	4 - 7 - 14	20	208	12.8	6.3	1.1 - 2.1 - 4.1	43	43	34	29	21	12		
		565	0.085	0.042	6 - 9 - 17	27	267	21.1	10.4	1.8 - 2.6 - 5.3	49	49	40	35	28	20		
		690	0.126	0.062	7 - 11 - 21	32	326	31.4	15.5	2.2 - 3.2 - 6.5	53	53	45	40	34	27		
		940	0.234	0.115	10 - 14 - 29	40	444	58.3	28.8	2.9 - 4.4 - 8.8	60	60	53	48	43	37		
	5'	200	0.009	0.003	1 - 1 - 5	-	94	2.2	0.8	0.2 - 0.4 - 1.5	23	24	13	-	-	-		
		460	0.046	0.018	3 - 6 - 13	20	217	11.5	4.4	0.9 - 1.9 - 3.9	42	43	33	28	19	-		
		590	0.076	0.029	5 - 8 - 16	26	278	18.9	7.2	1.4 - 2.5 - 4.9	48	48	39	34	26	19		
		720	0.113	0.043	7 - 10 - 20	32	340	28.1	10.8	2.0 - 3.0 - 6.0	52	53	44	39	32	25		
		980	0.209	0.080	9 - 14 - 27	40	463	52.1	20.0	2.7 - 4.1 - 8.2	59	60	51	47	41	35		
1.5" Slot Width	2'	170	0.021	0.011	3 - 5 - 9	-	80	5.1	2.8	0.5 - 1.0 - 2.3	33	30	21	16	-	-		
		370	0.104	0.054	7 - 10 - 20	26	175	25.8	13.4	1.6 - 2.5 - 4.9	50	48	39	35	29	21		
		470	0.167	0.087	8 - 13 - 23	33	222	41.6	21.6	2.1 - 3.1 - 6.2	55	54	45	41	36	29		
		570	0.246	0.128	10 - 15 - 25	38	269	61.3	31.8	2.5 - 3.8 - 7.6	59	58	50	46	41	35		
		770	0.449	0.233	14 - 21 - 29	46	363	111.8	58.1	3.4 - 5.1 - 8.9	65	65	57	53	50	45		
	4'	190	0.017	0.004	1 - 3 - 7	-	90	4.2	0.9	0.2 - 0.5 - 1.8	32	32	21	16	-	-		
		390	0.070	0.015	5 - 7 - 15	28	184	17.5	3.7	0.9 - 1.8 - 3.7	48	49	38	34	28	21		
		490	0.111	0.024	6 - 9 - 19	34	231	27.6	5.9	1.4 - 2.3 - 4.6	53	54	44	40	34	29		
		590	0.161	0.034	7 - 11 - 22	39	278	40.1	8.5	1.8 - 2.8 - 5.5	57	58	48	45	39	35		
		790	0.288	0.061	10 - 15 - 30	47	373	71.8	15.3	2.5 - 3.7 - 7.4	63	65	55	52	48	44		
	5'	200	0.017	0.003	1 - 2 - 7	-	94	4.2	0.6	0.2 - 0.4 - 1.5	33	33	22	17	-	-		
		410	0.072	0.011	4 - 7 - 14	29	193	17.9	2.6	0.7 - 1.5 - 3.4	48	50	39	35	28	23		
		515	0.113	0.017	6 - 9 - 17	35	243	28.2	4.2	1.1 - 2.2 - 4.3	53	55	44	41	35	30		
		620	0.164	0.024	7 - 10 - 21	40	293	40.8	6.0	1.6 - 2.6 - 5.2	57	59	49	45	40	36		
		830	0.294	0.043	9 - 14 - 28	48	392	73.2	10.8	2.3 - 3.5 - 7.0	63	66	56	53	48	46		
12" Inlet	2'	180	0.017	0.013	3 - 5 - 10	-	85	4.1	3.2	0.5 - 1.2 - 2.4	28	23	14	-	-	-		
		420	0.093	0.069	7 - 11 - 22	18	198	23.2	17.3	1.9 - 2.8 - 5.6	46	42	34	29	22	12		
		540	0.154	0.115	10 - 14 - 24	25	255	38.3	28.6	2.4 - 3.6 - 7.2	51	48	40	36	29	20		
		660	0.230	0.171	12 - 18 - 27	31	311	57.3	42.7	2.9 - 4.4 - 8.2	56	53	45	41	35	26		
		900	0.428	0.319	16 - 22 - 32	39	425	106.5	79.4	4.0 - 6.0 - 9.6	62	60	53	49	44	36		
	4'	200	0.009	0.004	1 - 3 - 8	-	94	2.3	1.0	0.2 - 0.5 - 1.9	27	25	15	-	-	-		
		460	0.049	0.021	6 - 9 - 17	21	217	12.3	5.2	1.2 - 2.2 - 4.3	45	44	34	30	22	14		
		590	0.081	0.034	7 - 11 - 22	28	278	20.2	8.5	1.8 - 2.8 - 5.5	50	49	40	36	29	22		
		720	0.121	0.051	9 - 14 - 27	33	340	30.0	12.7	2.3 - 3.4 - 6.8	55	54	45	41	35	28		
		980	0.224	0.094	12 - 19 - 33	41	463	55.7	23.5	3.1 - 4.6 - 9.2	61	61	52	49	44	38		
	5'	210	0.009	0.003	1 - 2 - 7	-	99	2.2	0.7	0.2 - 0.4 - 1.6	27	26	15	-	-	-		
		480	0.045	0.015	5 - 8 - 16	22	227	11.3	3.6	0.9 - 2.0 - 4.0	45	45	35	30	22	15		
		615	0.075	0.024	7 - 10 - 21	29	290	18.6	5.9	1.5 - 2.6 - 5.2	50	50	40	36	30	23		
		750	0.111	0.035	8 - 13 - 25	34	354	27.6	8.8	2.1 - 3.1 - 6.3	55	55	45	41	35	29		
		1020	0.205	0.065	11 - 17 - 34	42	481	51.1	16.3	2.9 - 4.3 - 8.6	61	62	52	49	44	39		

NOTE: See notes on page E1-32.

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LINEAR SLOT DIFFUSERS

DESIGN FLO

DFL Performance Data: For Lay-In T-Bar (DFB) & Narrow-T (DFNT), Vertical Throw

IP/METRIC DATA: DFB/DFNT, 2-SLOT (VT BLADES)

	Linear Length	IP Data				NC	Metric Data				Octave Band, dB					
		Air Flow	Pressures		Perpendicular Throw		Air Flow	Pressures		Perpendicular Throw	2	3	4	5	6	7
			Pt	Ps				Pt	Ps							
		CFM	"WG	"WG	ft		L/s	Pa	Pa	m						
3" Slot Width 10" Inlet	2'	210	0.022	0.007	5 - 8 - 15	11	99	5.4	1.8	1.5 - 2.2 - 4.4	37	35	24	18	-	-
		410	0.088	0.027	10 - 15 - 21	27	193	22.0	6.8	2.9 - 4.3 - 6.5	50	49	39	34	29	19
		510	0.137	0.042	13 - 17 - 24	32	241	34.0	10.5	3.6 - 5.1 - 7.2	55	53	44	39	35	26
		610	0.196	0.060	15 - 18 - 26	37	288	48.7	15.0	4.3 - 5.6 - 7.9	59	57	48	44	41	32
		810	0.345	0.106	17 - 21 - 30	44	382	85.9	26.4	5.2 - 6.4 - 9.1	64	63	55	51	49	41
	4'	230	0.021	0.002	4 - 6 - 12	11	109	5.3	0.5	1.1 - 1.7 - 3.4	35	35	24	17	-	-
		450	0.082	0.008	8 - 12 - 22	28	212	20.4	2.0	2.2 - 3.3 - 6.7	49	49	39	33	29	20
		560	0.127	0.013	10 - 15 - 25	33	264	31.6	3.2	2.8 - 4.2 - 7.6	53	53	44	38	35	27
		670	0.181	0.018	12 - 18 - 27	37	316	45.2	4.5	3.3 - 5.0 - 8.3	57	57	48	43	40	32
		890	0.320	0.032	16 - 22 - 31	44	420	79.7	8.0	4.4 - 6.6 - 9.5	63	63	55	50	48	41
	5'	240	0.022	0.001	4 - 6 - 11	12	113	5.6	0.4	0.9 - 1.6 - 3.2	35	35	24	17	-	-
		470	0.086	0.006	7 - 11 - 22	28	222	21.4	1.4	2.1 - 3.1 - 6.2	49	49	39	33	29	20
585		0.133	0.009	9 - 14 - 25	33	276	33.2	2.2	2.6 - 3.9 - 7.7	53	54	44	39	35	27	
700		0.191	0.013	11 - 17 - 28	38	330	47.5	3.2	3.1 - 4.6 - 8.4	57	58	48	43	40	33	
930		0.337	0.022	15 - 22 - 32	45	439	83.9	5.6	4.1 - 6.2 - 9.7	63	63	55	50	48	42	
3" Slot Width 12" Inlet	2'	230	0.015	0.009	6 - 9 - 16	-	109	3.8	2.1	1.6 - 2.4 - 4.8	33	30	18	12	-	-
		490	0.071	0.039	12 - 16 - 23	23	231	17.7	9.7	3.4 - 5.0 - 7.1	48	45	36	31	25	13
		620	0.114	0.062	15 - 18 - 26	29	293	28.4	15.5	4.3 - 5.6 - 8.0	53	50	41	36	31	21
		750	0.167	0.091	17 - 20 - 29	33	354	41.5	22.7	5.0 - 6.2 - 8.7	57	54	46	41	37	27
		1010	0.302	0.165	19 - 24 - 33	40	477	75.3	41.1	5.9 - 7.2 - 10.1	63	60	52	48	45	36
	4'	250	0.011	0.003	4 - 7 - 13	-	118	2.7	0.6	1.2 - 1.9 - 3.7	31	30	18	11	-	-
		530	0.049	0.011	9 - 14 - 24	23	250	12.2	2.8	2.6 - 3.9 - 7.4	47	45	35	29	24	13
		670	0.079	0.018	12 - 18 - 27	29	316	19.6	4.5	3.3 - 5.0 - 8.3	51	50	41	35	30	21
		810	0.115	0.027	14 - 21 - 30	33	382	28.6	6.6	4.0 - 6.0 - 9.1	55	54	45	40	36	27
		1090	0.208	0.048	19 - 25 - 35	40	514	51.7	12.0	5.4 - 7.5 - 10.5	61	60	52	47	44	36
	5'	260	0.011	0.002	4 - 6 - 12	-	123	2.7	0.4	1.1 - 1.7 - 3.4	31	30	18	11	-	-
		550	0.049	0.008	9 - 13 - 25	23	260	12.1	2.0	2.4 - 3.6 - 7.3	46	46	35	29	24	14
695		0.077	0.013	11 - 17 - 28	29	328	19.3	3.1	3.1 - 4.6 - 8.4	51	50	41	35	30	21	
840		0.113	0.018	13 - 20 - 30	34	396	28.2	4.6	3.7 - 5.6 - 9.3	55	54	45	40	36	27	
1130		0.205	0.033	18 - 25 - 35	41	533	51.0	8.2	5.0 - 7.5 - 10.7	61	61	52	47	44	36	

NOTES: Throw values are given for terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. For return applications, add 3 NC to supply data; static pressure is equal to supply total pressure. See selection software for performance data not shown, including octave band data.

LINEAR SLOT DIFFUSERS

DESIGN FLO