

## MODEL R0 & R0\_FG\* - 0 Degree Return Performance Data

Nominal Size		Core Vel,FPM	200	300	400	500	600	700	800	900	1000	1200
W	H	Ps, IWG	-0.01	-0.01	-0.02	-0.03	-0.05	-0.06	-0.08	-0.10	-0.13	-0.18
Width	Height											
6"	6"	CFM	30	50	70	80	100	120	130	150	170	200
		NC	<20	<20	<20	<20	<20	<20	<20	20	23	28
8"	8"	CFM	70	100	130	160	200	230	260	300	330	390
		NC	<20	<20	<20	<20	<20	<20	<20	23	26	31
12"	6"	CFM	70	110	150	180	220	260	290	330	370	440
		NC	<20	<20	<20	<20	<20	<20	20	23	26	32
10"	10"	CFM	110	160	220	270	330	380	440	490	550	660
		NC	<20	<20	<20	<20	<20	<20	22	25	28	33
18"	6"	CFM	110	170	230	290	340	400	460	510	570	690
		NC	<20	<20	<20	<20	<20	<20	22	25	28	34
12"	12"	CFM	160	250	330	410	490	570	660	740	820	990
		NC	<20	<20	<20	<20	<20	20	23	27	30	35
14"	14"	CFM	230	350	460	580	690	810	920	1,040	1,150	1,380
		NC	<20	<20	<20	<20	<20	21	25	28	31	37
18"	12"	CFM	250	380	510	640	760	890	1,020	1,150	1,270	1,530
		NC	<20	<20	<20	<20	<20	21	25	29	32	37
24"	10"	CFM	280	420	560	700	850	990	1,130	1,270	1,410	1,690
		NC	<20	<20	<20	<20	<20	22	26	29	32	37
24"	12"	CFM	350	520	690	860	1,040	1,210	1,380	1,550	1,730	2,070
		NC	<20	<20	<20	<20	<20	23	27	30	33	38
30"	12"	CFM	440	650	870	1,090	1,310	1,530	1,740	1,960	2,180	2,620
		NC	<20	<20	<20	<20	<20	24	28	31	34	39
24"	24"	CFM	730	1,090	1,450	1,820	2,180	2,540	2,910	3,270	3,630	4,360
		NC	<20	<20	<20	<20	22	26	30	33	36	42
30"	30"	CFM	1,160	1,740	2,320	2,900	3,470	4,050	4,630	5,210	5,790	6,950
		NC	<20	<20	<20	<20	24	28	32	35	38	44
48"	24"	CFM	1,490	2,230	2,980	3,720	4,470	5,210	5,960	6,700	7,450	8,940
		NC	<20	<20	<20	<20	25	29	33	36	39	45
38"	38"	CFM	1,890	2,830	3,780	4,720	5,670	6,610	7,550	8,500	9,440	11,330
		NC	<20	<20	<20	20	26	30	34	37	40	46
48"	36"	CFM	2,270	3,410	4,540	5,680	6,810	7,950	9,080	10,220	11,350	13,620
		NC	<20	<20	<20	21	26	31	35	38	41	46
48"	42"	CFM	2,660	3,990	5,320	6,650	7,980	9,310	10,640	11,980	13,310	15,970
		NC	<20	<20	<20	22	27	32	35	39	42	47
48"	48"	CFM	3,050	4,580	6,100	7,630	9,160	10,680	12,210	13,730	15,260	18,310
		NC	<20	<20	<20	23	28	32	36	39	43	48

**-Ps - Static Pressure Drop, I.W.G.**

**-Data determined in accordance with ASHRAE Standard 70-91**

**-NC noise criteria based on room attenuation of 10 dB, re:10-12 watts**

**\* Performance shown excludes the effects of the filter.**



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## MODEL R45 & R45\_FG\* - 45 Degree Return Performance Data

Nominal Size		Core Vel,FPM	200	300	400	500	600	700	800	900	1000	1200
W Width	H Height	Ps, IWG	-0.01	-0.02	-0.03	-0.05	-0.07	-0.09	-0.12	-0.15	-0.19	-0.27
6"	6"	CFM	30	50	70	80	100	120	130	150	170	200
		NC	<20	<20	<20	20	21	23	24	26	27	28
8"	8"	CFM	70	100	130	160	200	230	260	300	330	390
		NC	<20	<20	20	23	24	26	27	29	30	31
12"	6"	CFM	70	110	150	180	220	260	290	330	370	440
		NC	<20	<20	21	23	25	27	28	29	30	32
10"	10"	CFM	110	160	220	270	330	380	440	490	550	660
		NC	<20	20	23	25	27	28	30	31	32	34
18"	6"	CFM	110	170	230	290	340	400	460	510	570	690
		NC	<20	20	23	25	27	28	30	31	32	34
12"	12"	CFM	160	250	330	410	490	570	660	740	820	990
		NC	<20	21	24	27	28	30	31	33	34	35
14"	14"	CFM	230	350	460	580	690	810	920	1,040	1,150	1,380
		NC	<20	23	26	28	30	31	33	34	35	37
18"	12"	CFM	250	380	510	640	760	890	1,020	1,150	1,270	1,530
		NC	<20	23	26	28	30	32	33	34	35	37
24"	10"	CFM	280	420	560	700	850	990	1,130	1,270	1,410	1,690
		NC	20	24	27	29	31	32	34	35	36	38
24"	12"	CFM	350	520	690	860	1,040	1,210	1,380	1,550	1,730	2,070
		NC	21	25	28	30	32	33	35	36	37	39
30"	12"	CFM	440	650	870	1,090	1,310	1,530	1,740	1,960	2,180	2,620
		NC	22	26	29	31	33	34	36	37	38	40
24"	24"	CFM	730	1,090	1,450	1,820	2,180	2,540	2,910	3,270	3,630	4,360
		NC	24	28	31	33	35	36	38	39	40	42
30"	30"	CFM	1,160	1,740	2,320	2,900	3,470	4,050	4,630	5,210	5,790	6,950
		NC	26	30	33	35	37	38	40	41	42	44
48"	24"	CFM	1,490	2,230	2,980	3,720	4,470	5,210	5,960	6,700	7,450	8,940
		NC	27	31	34	36	38	40	41	42	43	45
38"	38"	CFM	1,890	2,830	3,780	4,720	5,670	6,610	7,550	8,500	9,440	11,330
		NC	28	32	35	37	39	41	42	43	44	46
48"	36"	CFM	2,270	3,410	4,540	5,680	6,810	7,950	9,080	10,220	11,350	13,620
		NC	29	33	36	38	40	41	43	44	45	47
48"	42"	CFM	2,660	3,990	5,320	6,650	7,980	9,310	10,640	11,980	13,310	15,970
		NC	29	34	36	39	41	42	43	45	46	48
48"	48"	CFM	3,050	4,580	6,100	7,630	9,160	10,680	12,210	13,730	15,260	18,310
		NC	30	34	37	39	41	43	44	45	46	48

**-Ps - Static Pressure Drop, I.W.G.**

**-Data determined in accordance with ASHRAE Standard 70-91**

**-NC noise criteria based on room attenuation of 10 dB, re:10-12 watts**

**\* Performance shown excludes the effects of the filter.**



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# MODEL 1AV, 1AH, 2AV, 2AH w/ Dampers / Supply Register Performance Data

Duct Size		Core Area Sq. Ft.	Core Velocity	200		300		400		500		600		700		800		900		1000		1200									
Nom Width W	Nom Height H			Ps	0	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.09	0.11	0.14	0.17	0.20	0.25	0.30	0.37	0.45	0.54	0.64							
6"	6"	0.17	CFM	30	50	70	80	100	120	130	150	170	200	230	260	300	330	370	410	450	500	550	600	660							
			NC	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20						
			Throw	0	2	4	8	5	7	13	7	10	15	7	11	16	9	13	18	11	14	20	12	15	21	13	16	23	14	17	24

- Notes:
1. Data determined in accordance with ASHRAE Standard 70-1991.
  2. Data is based on double deflection register (with damper open).
  3. See Adjustment Factors for single deflection and grille performance.
  4. 0, 22-1/2, 45 degree are front vertical blade settings for horizontal spread, rear blades at 0 degree.
  5. Ps - Static Pressure, inches w.g.
  6. Throw - distance, in feet, to terminal velocities Vt = 150,100,50 fpm, respectively.
  7. NC - Noise Criteria with 10 dB room attenuation re:10-12 watts.

		Adjustment Factors					
		NC Addition for Blade Settings			Static Pressure Factors		
Type	Damper	Blade Settings			Blade Settings		
Double Deflection	With	0	22-1/2	45	0	22-1/2	45
	Without	-3	-1	+4	x .84	x .88	x .90
Single Deflection	With	-3	-1	+4			
	Without	-7	-5	+1	x .79	x .81	x .86



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