



PERFORMANCE DATA SINGLE SLOT, STANDARD WEIR GATES WITH PLENUM

7-4

3" SLOT WIDTH	10" Ø INLET	2 FT	AIRFLOW, CFM	215	260	305	350	395
			TOTAL PRESSURE	0.108	0.158	0.212	0.274	0.350
			STATIC PRESSURE	0.093	0.137	0.183	0.236	0.302
			NC (NOISE CRITERIA)	14	21	26	30	34
			THROW	9 14 22	10 16 25	13 18 27	15 19 29	16 20 30
		4 FT	AIRFLOW, CFM	350	425	500	575	650
			TOTAL PRESSURE	0.111	0.158	0.221	0.289	0.365
			STATIC PRESSURE	0.073	0.102	0.143	0.186	0.234
			NC (NOISE CRITERIA)	18	25	29	34	38
			THROW	9 14 25	11 17 28	13 20 30	14 21 33	16 23 35
		5 FT	AIRFLOW, CFM	400	490	580	670	760
			TOTAL PRESSURE	0.114	0.170	0.235	0.312	0.399
	STATIC PRESSURE		0.064	0.095	0.131	0.173	0.220	
	NC (NOISE CRITERIA)		17	27	32	36	40	
	THROW		9 14 26	11 17 29	13 19 33	14 22 34	16 24 36	
3" SLOT WIDTH	12" Ø INLET	2 FT	AIRFLOW, CFM	215	260	305	350	395
			TOTAL PRESSURE	0.093	0.136	0.184	0.237	0.303
			STATIC PRESSURE	0.085	0.124	0.167	0.215	0.275
			NC (NOISE CRITERIA)	12	19	24	28	32
			THROW	9 14 23	10 16 25	13 18 27	15 19 29	16 20 30
		4 FT	AIRFLOW, CFM	380	470	560	650	740
			TOTAL PRESSURE	0.101	0.150	0.211	0.282	0.364
			STATIC PRESSURE	0.075	0.111	0.156	0.207	0.266
			NC (NOISE CRITERIA)	18	25	31	35	39
			THROW	10 15 26	12 18 30	14 21 33	16 23 35	19 24 37
		5 FT	AIRFLOW, CFM	440	550	660	770	880
			TOTAL PRESSURE	0.102	0.157	0.224	0.303	0.387
	STATIC PRESSURE		0.068	0.104	0.147	0.198	0.251	
	NC (NOISE CRITERIA)		19	26	32	37	41	
	THROW		10 15 27	12 18 30	14 22 34	16 24 37	19 26 39	

PERFORMANCE NOTES:

- 1- All pressures are inches of water
- 2- Isothermal throws are given for terminal velocities of 150, 100 and 50 fpm.
- 3- Throw data, static pressure and NC (room absorption of 10db) values are based on a four foot unit length.
- 4- Throw values for weir gate pattern control units are based on a 1-way discharge from the slot.
- 5- Data was obtained from tests in accordance to ASHRAE Standard 70-2006 "method of testing for rating the performance of air outlets and inlets."

Table 1	NC correction for continuous active lengths.				
Length(feet)	+2	+4	+6	+8	+10
Supply	-2	+0	+2	+3	+5
Return	+0	+3	+5	+6	+8