



## PERFORMANCE DATA SINGLE SLOT, STANDARD WEIR GATES WITH PLENUM

7-4

3" SLOT WIDTH	10" Ø INLET	2 FT	AIRFLOW, CFM	<b>215</b>	<b>260</b>	<b>305</b>	<b>350</b>	<b>395</b>									
			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	<b>350</b>	<b>425</b>	<b>500</b>	<b>575</b>	<b>650</b>									
			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	<b>400</b>	<b>490</b>	<b>580</b>	<b>670</b>	<b>760</b>									
			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	<b>215</b>	<b>260</b>	<b>305</b>	<b>350</b>	<b>395</b>									
			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	<b>380</b>	<b>470</b>	<b>560</b>	<b>650</b>	<b>740</b>									
			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	<b>440</b>	<b>550</b>	<b>660</b>	<b>770</b>	<b>880</b>									
			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