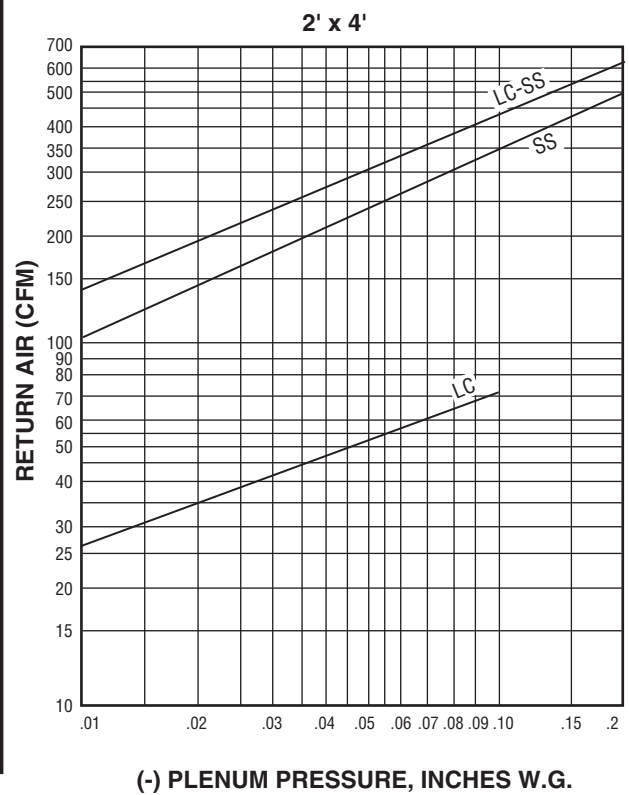
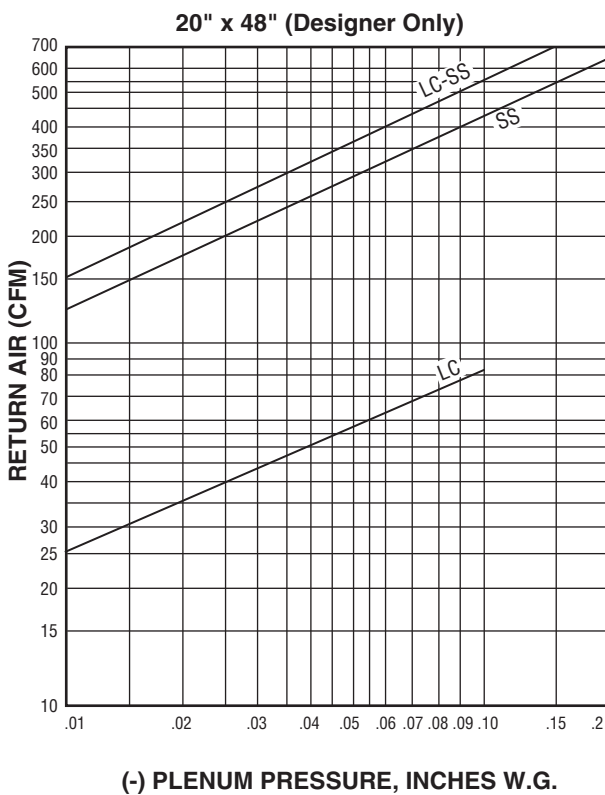
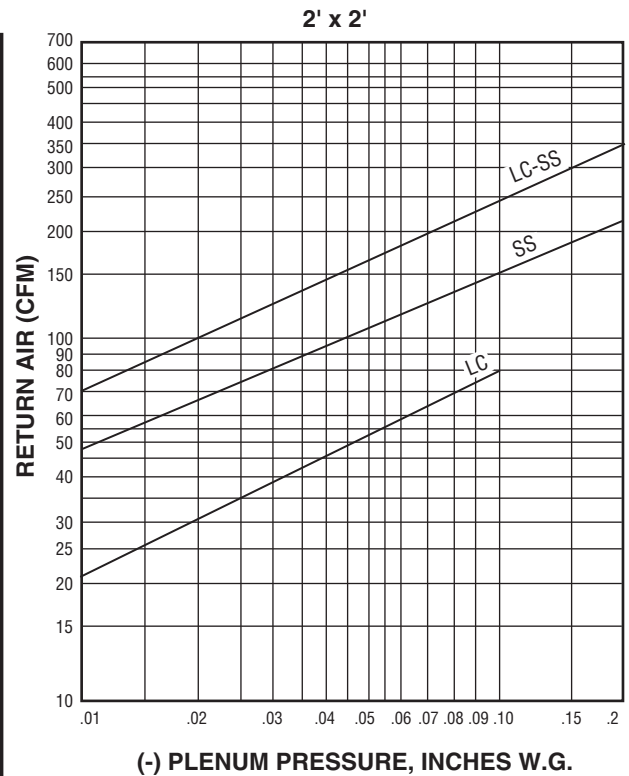
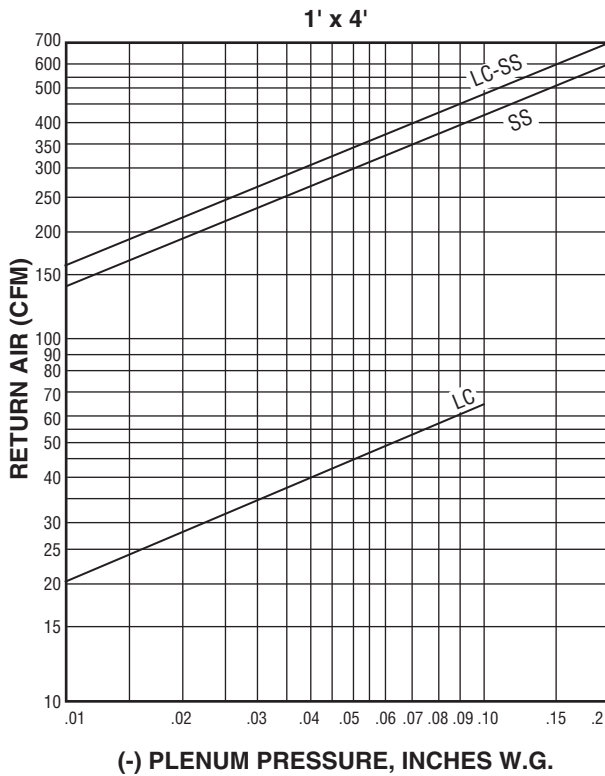


LC=Return Through Lamp Cavity Only SS=Return Through Side Slots Only LC-SS=Return Through Lamp Cavity and Side Slots



Return Air-Noise Criteria																
SIZE	MODE	CFM														
		40	50	60	70	80	90	100	125	150	175	200	250	300	350	
2' x 2'	LC	NC	<20	23	31	40										
	SS	NC	-	-	-	-	-	22	31	35	38	40				
	LC-SS	NC	-	-	-	-	-	-	-	25	32	36	39	41		
1' x 4'	LC	NC	-	20	29	33	38	42								
	SS	NC	-	-	-	-	-	-	-	-	-	21	27	32	36	
	LC-SS	NC	-	-	-	-	-	-	-	-	-	<20	25	30	35	
20" x 48"	LC	NC	-	-	23	32	35	39								
	SS	NC	-	-	-	-	-	-	<20	-	-	-	25	-	34	
	LC-SS	NC	-	-	-	-	-	-	-	-	-	-	<20	23	32	34
2' x 4'	LC	NC	-	-	25	30	34	41								
	SS	NC	-	-	-	-	-	-	-	-	-	-	26	32	36	41
	LC-SS	NC	-	-	-	-	-	-	-	-	-	-	25	32	38	38

Recommended Indoor Design Goals For Air Conditioning System Sound Control*

(NOTE: NC Values are for occupied spaces, with all systems operating.)

TYPE OF AREA	NC	
	CRITERIA	RANGE
1. Private residences	25-30	
2. Apartments	30-35	
3. Hotels/Motels		
a. Rooms or suites	30-35	
b. Meeting/banquet rooms	30-35	
c. Halls, corridors, lobbies	35-40	
d. Service/support areas	40-45	
4. Offices		
a. Executive	25-30	
b. Conference rooms	25-30	
c. Private	30-35	
d. Open-plan areas	35-40	
e. Computer/business machine areas	40-45	
f. Public circulation	40-45	
5. Hospitals and clinics		
a. Private rooms	25-30	
b. Wards	30-35	
c. Operating rooms	25-30	
d. Laboratories	30-35	
e. Corridors	30-35	
f. Public areas	35-40	
6. Schools		
a. Lecture and classrooms	25-30	
b. Open-plan classrooms	30-35**	
7. Libraries	30-35	

*Design goals can be increased by 5dB when dictated by budget constraints or when noise intrusion from other sources represent a limiting condition.

** An acoustical expert should be consulted on these critical spaces.

Reference: ASHRAE HANDBOOK, 1980 SYSTEMS, CHAP. 35.16.