

Performance Data • NC Level Application Guide
3400 Series

Inlet Size	Airflow		Min. Discharge ΔPs		Min. Bypass ΔPs		NC Levels		
							DISCHARGE	RADIATED	
								Bypass Closed	Bypass Open
cfm	l/s	"w.g.	Pa	"w.g.	Pa				
6	400	189	0.01	2	0.14	35	-	-	26
	300	142	0.01	2	0.08	20	-	-	-
	200	94	0.01	2	0.04	10	-	-	-
	100	47	0.01	2	0.01	2	-	-	-
8	700	330	0.01	2	0.21	52	-	-	30
	500	236	0.01	2	0.11	27	-	-	20
	350	165	0.01	2	0.05	12	-	-	-
	200	94	0.01	2	0.02	5	-	-	-
10	1100	519	0.01	2	0.43	107	-	20	37
	800	378	0.01	2	0.23	57	-	-	26
	500	236	0.01	2	0.09	22	-	-	-
	200	94	0.01	2	0.01	3	-	-	-
12	1600	755	0.01	2	0.50	124	-	21	41
	1200	566	0.01	2	0.28	70	-	-	33
	800	378	0.01	2	0.13	32	-	-	23
	400	189	0.01	2	0.03	7	-	-	-
14	2100	991	0.20	50	0.50	124	21	31	43
	1550	731	0.10	25	0.27	68	-	23	35
	1000	472	0.04	10	0.11	28	-	-	24
	450	212	0.01	2	0.02	5	-	-	-
16	2750	1298	0.12	29	0.50	124	21	34	47
	2050	967	0.06	16	0.28	70	-	24	38
	1350	637	0.03	8	0.12	30	-	-	28
	650	307	0.01	2	0.03	7	-	-	-

Performance Notes:

1. NC levels are calculated from the published raw data and based on procedures outlined in Appendix E, AHRI Standard 885.
2. Discharge sound attenuation deductions are based on environmental effect, duct lining, branch power division, insulated flex duct, end reflection and space effect and are as follows:

Discharge attenuation	Octave Band						
	2	3	4	5	6	7	
< 300 cfm	24	28	39	53	59	40	
300 – 700 cfm	27	29	40	51	53	39	
> 700 cfm	29	30	40	51	52	39	

3. Radiated sound attenuation deductions are based on a mineral tile ceiling and environmental effect and are as follows:

Radiated attenuation	Octave Band						
	2	3	4	5	6	7	
Total dB reduction	18	19	20	26	31	36	

4. Minimum discharge ΔPs is the static pressure loss through the unit with 100% airflow through discharge outlet.

5. Minimum bypass ΔPs is the static pressure loss through the unit with 100% airflow through the bypass outlet.
6. Dash (–) in space denotes an NC level of less than 20.
7. For a complete explanation and details on NC calculations, refer to page E14 and the engineering section of this catalog.