

Model CRG (80% thermal efficient)

Temp. Rise	75		100		125		175		225		250		300		350		400	
	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.
50°F	1110	0.24	1330	0.34	1655	0.39	2220	0.38	2960	0.41	3330	0.32	4000	0.47	4665	0.51	5330	0.53
60°F	920	0.15	1105	0.23	1375	0.26	1845	0.26	2460	0.28	2765	0.24	3320	0.32	3875	0.35	4430	0.36
70°F	785	0.10	945	0.16	1175	0.22	1575	0.19	2105	0.22	2365	0.20	2840	0.25	3315	0.26	3785	0.26
80°F	695	0.08	835	0.12	1040	0.18	1395	0.15	1860	0.17	2090	0.20	2510	0.22	2930	0.22	3345	0.21
85°F	650	0.08	780	0.12	975	0.17	1305	0.15	1740	0.16	1960	0.20	2350	0.21	2745	0.20	3135	0.18

Model HCRG (80% thermal efficient, high CFM)

Temp. Rise	75		100		125		175		225		250		300		350		400	
	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.
20°F	2775	0.60	3330	0.89	4145	0.92	5555	0.84	7405	1.03	8330	0.74	10000	1.00	11665	1.03	13330	1.03
30°F	1875	0.28	2250	0.40	2800	0.41	3750	0.37	5000	0.45	5625	0.33	6750	0.47	7875	0.45	9000	0.45
40°F	1395	0.16	1670	0.22	2080	0.23	2790	0.21	3720	0.24	4185	0.19	5020	0.27	5860	0.26	6695	0.26
50°F	1110	0.13	1330	0.15	1655	0.16	2220	0.15	2960	0.16	3330	0.13	4000	0.17	4665	0.16	5330	0.17
60°F	920	0.11	1105	0.13	1375	0.13	1845	0.13	2460	0.13	2765	0.10	3320	0.13	3875	0.11	4430	0.13
70°F	790	0.10	950	0.11	1185	0.11	1585	0.11	2115	0.10	2380	0.08	2855	0.10	3330	0.10	3805	0.09

Temperature Rise range for Models HCRG installed in Canada is 20°-50°F.

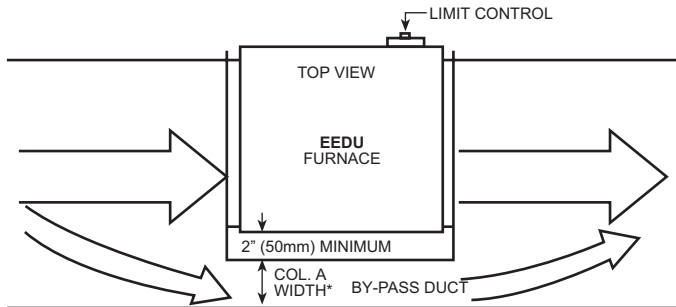
Model SC Series 6 (80% thermal efficient)

Temp. Rise	100		125		150		175		200		225		250		300		350		400	
	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.
50°F	1480	0.50	1850	0.50	2220	0.36	2590	0.52	2960	0.41	3330	0.53	3700	0.42	4440	0.58	5185	0.67	5925	0.67
55°F	1345	0.34	1680	0.41	2020	0.30	2355	0.43	2690	0.34	3030	0.44	3365	0.35	4040	0.48	4710	0.55	5385	0.55
60°F	1235	0.29	1540	0.34	1850	0.26	2160	0.36	2465	0.28	2775	0.37	3085	0.30	3700	0.40	4320	0.46	4935	0.46
70°F	1055	0.21	1320	0.25	1585	0.19	1850	0.26	2115	0.21	2380	0.27	2645	0.22	3175	0.30	3700	0.34	4230	0.34
80°F	925	0.16	1155	0.19	1385	0.14	1620	0.20	1850	0.17	2080	0.21	2315	0.20	2775	0.23	3240	0.26	3700	0.26
85°F	870	0.14	1085	0.18	1305	0.13	1525	0.18	1740	0.15	1960	0.19	2175	0.20	2610	0.22	3050	0.23	3485	0.23
90°F	820	0.12	1025	0.16	1235	0.12	1440	0.16	1645	0.13	1850	0.17	2055	0.18	2465	0.20	2880	0.21	3290	0.21

Model HSC Series 6 (80% thermal efficient, high CFM)

Temp. Rise	100		125		150		175		200		225		250		300		350		400	
	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.	CFM	P.D.
20°F	3700	1.08	4630	1.12	5555	0.85	6480	1.11	7405	1.02	8330	1.24	9255	0.90	11110	1.24	12960	1.24	14815	1.24
30°F	2465	0.48	3085	0.50	3700	0.38	4320	0.50	4935	0.45	5555	0.55	6170	0.40	7405	0.55	8640	0.55	9875	0.55
40°F	1850	0.27	2315	0.28	2775	0.21	3240	0.28	3700	0.25	4165	0.31	4630	0.22	5555	0.31	6480	0.31	7405	0.31
50°F	1480	0.17	1850	0.18	2220	0.14	2590	0.18	2960	0.16	3330	0.20	3700	0.14	4440	0.20	5185	0.20	5925	0.20
60°F	1230	0.13	1540	0.13	1850	0.11	2160	0.14	2465	0.12	2775	0.15	3085	0.11	3700	0.15	4320	0.15	4935	0.15
70°F	1055	0.10	1320	0.11	1585	0.10	1850	0.13	2115	0.10	2380	0.11	2645	0.09	3170	0.11	3700	0.11	4230	0.11
75°F	985	0.09	1230	0.10	1480	0.09	1725	0.11	1975	0.09	2220	0.10	2465	0.08	2960	0.10	3455	0.10	3950	0.10

SIZING BY-PASS AIR DUCT



Directions for Sizing By-Pass Duct

1. From the Pressure Drop Tables on pages 20 and 21, find the pressure drop for the Model and Size of unit that is being installed and the allowable CFM.

Example: EEDU 125 @ 70° temperature rise
P.D. .25
CFM 1315

2. Subtract the allowable CFM from the actual CFM of the installation to determine how much air must go through the by-pass duct.

Example: Blower CFM 3000
Allowable CFM -1315
By-Pass CFM 1685

3. Go to the column in the By-Pass CFM Chart that is closest to the pressure drop. Move down in that column until you find the CFM closest to the answer in Step 2.

Example: P.D. .25
By-Pass CFM 1650

4. Move to the left column to find out the required size of the by-pass duct.

Example: By-Pass Duct
Size is 6"

Col. A Width*	BY-PASS CFM									
	Pressure Drop Through Heaters									
	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	
3"	490	530	610	700	780	830	900	960	1010	
4"	630	750	870	980	1090	1160	1250	1310	1400	
5"	850	1010	1190	1300	1410	1520	1640	1730	1810	
6"	1050	1290	1480	1650	1800	1940	2090	2200	2320	
7"	1250	1510	1760	1960	2180	2320	2500	2650	2800	
8"	1490	1810	2100	2350	2560	2760	2940	3110	3920	
9"	1700	2100	2400	2700	2970	3200	3400	3600	3800	
10"	1920	2380	2760	3090	3650	4020	4300	4550	4800	

*Depth of by-pass duct is 18" on both inlet and outlet ends. **NOTE:** By-pass must be located on side opposite limit control and 2" from side panel.

Note: Not all capabilities are covered in this chart. If your installation is not covered, the correct size may be determined by consulting your factory representative.

Depth of the by-pass duct is 18" on both inlet and outlet ends. By-pass duct must be located on side opposite limit control and 2" from the heat exchanger side panel.