

Performance Data



SCB31 and SCB41 Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM) Total Pressure	400			500			600			700			800			1000		
			0.038			0.108			0.155			0.22			0.285			0.438		
6x6	0.149	CFM	59			74			89			104			119			149		
		NC	<20			<20			<20			<20			20			20		
		4-Way Throw (ft.)	3	4	7	4	5	8	6	7	10	6	8	12	8	10	14	9	12	16
		3-Way Throw (ft.)	4	5	8	5	6	9	6	8	12	7	9	14	9	12	16	11	14	18
8x8	0.289	CFM	116			144			173			202			231			289		
		NC	<20			<20			<20			<20			20			25		
		4-Way Throw (ft.)	4	5	9	5	7	10	7	9	13	8	10	15	10	13	18	12	15	20
		3-Way Throw (ft.)	4	6	10	6	8	12	8	10	15	10	12	18	12	15	21	14	18	24
10x10	0.475	CFM	190			237			285			332			380			475		
		NC	<20			<20			20			20-25			25			25-30		
		4-Way Throw (ft.)	6	7	11	7	9	13	9	11	17	10	13	20	14	17	23	15	20	26
		3-Way Throw (ft.)	6	8	13	8	10	16	10	13	19	13	16	23	15	19	27	18	23	31
12x12	0.707	CFM	283			353			424			495			565			707		
		NC	<20			<20			20			20-25			25			25-30		
		4-Way Throw (ft.)	7	9	14	9	12	17	11	14	22	14	17	26	17	22	30	20	26	34
		3-Way Throw (ft.)	8	10	17	10	13	20	13	17	25	16	20	30	19	25	35	23	30	40
14x14	0.984	CFM	394			492			591			689			787			984		
		NC	<20			<20			20			25			25-30			30		
		4-Way Throw (ft.)	8	10	16	10	13	20	12	16	24	16	20	29	19	24	34	22	29	39
		3-Way Throw (ft.)	9	12	19	11	15	23	15	19	29	18	23	34	22	29	40	26	34	45

Performance Notes:

- 1) Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 2) Throw data is based on supply air and room air both at isothermal conditions
- 3) Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air
- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006