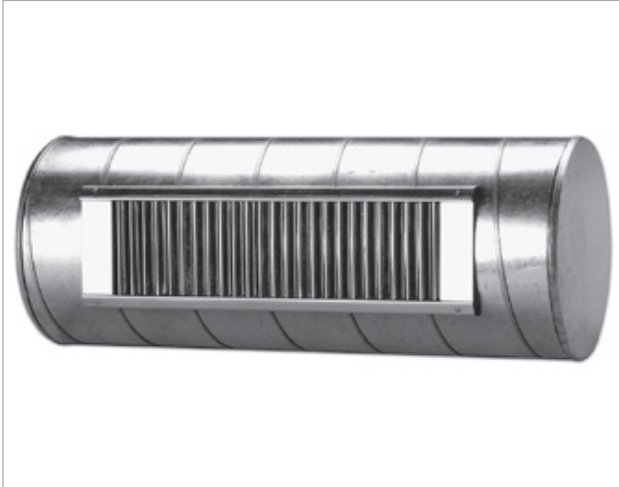


RGS-3 Registers for Spiral Ducts



Description

The RGS-3 is a supply/return register with adjustable double deflection blades and a volume damper designed specifically for direct mounting on a spiral duct. The use of rectangular register taps are not required.

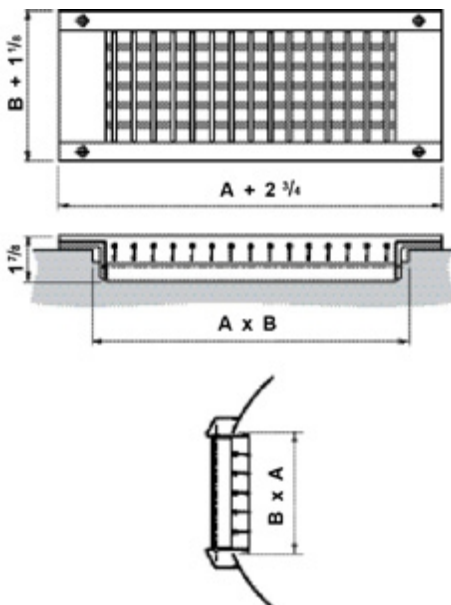
The register is designed in such a way that the flanges always meet flush to the duct regardless of the duct diameter. The RGS-3 comes equipped with end caps and gasketing material around the neck of the register. This prevents air leakage. The RGS-3 is manufactured from galvanized sheet steel and is assembled without the use of welding. This allows the register to be used without further surface treatment and gives it the same finish as the duct.

Materials and Finish

Register: galvanized sheet steel

Damper: electro-galvanized sheet steel

Dimensions



Register nom. size (in)	Min. Duct diameter (in)	Free area (ft ²)	Duct opening A x B (in)	Weight (lb)	Max CFM at 30 NC
13 x 3	6	0.18	12 ³ / ₄ x 3	2.4	175
17 x 3	6	0.25	16 ³ / ₄ x 3	3.1	195
21 x 3	6	0.30	20 ⁵ / ₈ x 3	3.7	330
17 x 6	12	0.48	16 ³ / ₄ x 6	4.2	285
25 x 6	12	0.73	24 ⁵ / ₈ x 6	5.7	440

RGS-3 Registers for Spiral Ducts

SELECTION CHART SUPPLY AND RETURN

Core velocity (fpm)			300	400	500	600	700	800	1000	1200
Velocity Pressure			0.006	0.010	0.016	0.023	0.031	0.040	0.063	0.090
Total Pressure		0°	0.011	0.019	0.028	0.039	0.052	0.067	0.101	0.141
		22.5°	0.012	0.021	0.032	0.044	0.059	0.075	0.114	0.159
Size		45°	0.019	0.033	0.049	0.069	0.092	0.117	0.177	0.248
A _c 0.18 (ft ²) 13 x 3	cfm		54	72	90	108	126	144	180	216
	NC	0°	-	-	-	14	20	25	33	40
	Throw ft	0°	3 4 7	6 7 12	8 9 18	10 12 23	12 14 27	14 17 32	17 21 40	19 25 47
		22.5°	3 2 5	5 5 10	6 7 14	8 10 18	10 11 22	11 13 25	13 17 32	15 20 37
		45°	2 2 3	3 3 6	4 5 9	5 6 11	6 7 14	7 8 16	8 10 20	9 12 23
A _c 0.24 (ft ²) 17 x 3	cfm		72	96	120	144	168	192	240	288
	NC	0°	-	-	12	18	24	29	37	44
	Throw ft	0°	3 5 9	6 8 15	8 11 20	10 13 25	12 16 30	14 18 34	17 22 42	19 26 49
		22.5°	3 4 7	5 6 12	7 8 16	8 11 20	10 13 24	11 14 27	14 18 34	15 21 39
		45°	2 2 5	3 4 7	4 5 10	5 7 13	6 8 15	7 9 17	8 11 21	10 13 25
A _c 0.30 (ft ²) 21 x 3	cfm		90	120	150	180	210	240	300	360
	NC	0°	-	-	14	21	26	31	39	46
	Throw ft	0°	3 6 11	6 9 17	8 12 22	11 14 27	12 17 32	14 19 36	17 23 44	19 27 51
		22.5°	3 5 9	5 7 13	7 9 17	8 11 21	10 13 25	11 15 29	14 18 35	15 21 41
		45°	2 3 6	3 4 8	4 6 11	5 7 13	6 8 16	7 9 18	9 12 22	10 13 25
A _c 0.48 (ft ²) 17 x 6	cfm		144	192	240	288	336	384	480	576
	NC	0°	-	12	20	27	32	37	45	52
	Throw ft	0°	4 9 16	7 12 22	9 14 27	11 17 32	13 19 37	15 22 41	18 26 49	20 30 56
		22.5°	3 7 13	5 9 17	7 11 22	9 14 26	10 15 29	12 17 33	14 21 39	16 24 45
		45°	2 4 8	3 6 11	4 7 14	6 8 16	7 10 18	7 11 21	9 13 25	10 15 28
A _c 0.73 (ft ²) 25 x 6	cfm		219	292	365	438	511	584	730	876
	NC	0°	-	15	23	29	35	40	48	54
	Throw ft	0°	4 10 19	7 13 25	9 16 30	12 18 35	13 21 40	15 23 44	18 27 52	20 31 59
		22.5°	4 8 15	6 10 20	8 13 24	9 15 28	11 17 32	12 19 35	14 22 42	16 25 47
		45°	2 5 10	4 6 12	5 8 15	6 9 17	7 10 20	8 12 22	9 14 26	10 16 29