



Quality Registers, Grilles and Diffusers Since 1947

## Engineering Data

350 Series																										
Size	Velocity		300			400			500			600			700			800			900			1000		
	Duct Pt		0.007			0.011			0.017			0.024			0.034			0.044			0.055			0.068		
2x10	Eff. Area .089 ft <sup>2</sup>	CFM	26.9			35.8			44.8			53.8			62.7			71.7			80.6			89.6		
		NC	<20			20			25			30			30			35			35					
		Spread	2.5			3			4			5			5.5			6			7			8		
		Throw	1.5	2	3	2	2.5	3.8	3	3.5	5	3	4	5.5	3.5	5	6.5	4	5.5	7.5	4.5	6	8.5	5	7	9.5
2x12	Eff. Area .102 ft <sup>2</sup>	CFM	30.9			41.2			51.5			61.8			72.1			82.4			92.7			103		
		NC	<20			20			25			30			30			35			35					
		Spread	3			3.5			4.5			5.5			6			7			8			9		
		Throw	2	2.5	3.5	2.5	3	4.5	3	4	5.5	3.5	5	7	4	5.5	7.5	4.5	6.5	9	5	7	10.5	5.5	8	11.5
2x14	Eff. Area .117 ft <sup>2</sup>	CFM	35.5			47.4			59.4			71.1			82.9			94.8			106.6			118.5		
		NC	<20			20			25			30			30			35			35					
		Spread	3			4			5			5.5			6.5			7.5			8			9		
		Throw	2	2.5	4	2.5	3.5	5	3	4.5	6.5	4	5.5	7.5	4.5	6.5	9	5	7	10	6	8	11.5	6.5	9	12.5
4x6	Eff. Area .102 ft <sup>2</sup>	CFM	30.9			41.2			51.5			61.8			72.1			82.4			92.7			103		
		NC	<20			20			25			30			30			35			35					
		Spread	3			3.5			4.5			5.5			6			7			8			9		
		Throw	2	2.5	3.5	2.5	3	4.5	3	4	5.5	3.5	5	7	4	5.5	7.5	4.5	6.5	9	5	7	10.5	5.5	8	11.5
4x8	Eff. Area .147 ft <sup>2</sup>	CFM	39.6			52.2			65.7			78.3			91.9			104.5			117.9			129.8		
		NC	<20			20			25			30			30			35			35			40		
		Spread	3			4			5			6			7			8			9			10		
		Throw	3	3.5	4	4	4.5	5.5	5	6	7.5	5.5	7	8.5	6.5	8.5	10	7.5	9.5	10.5	7.5	8.5	12	8.5	11.5	15.5
4x10	Eff. Area .171 ft <sup>2</sup>	CFM	48.9			64.5			81.1			96.7			113.4			129.0			145.6			160.2		
		NC	<20			20			25			30			30			35			35			40		
		Spread	3			4			5			6			7			8			10			11		
		Throw	3.5	4	4.5	5	5.5	6	6.5	7.5	8.5	7	8.5	9.5	8.5	10.5	12	9.5	11.5	13	10	12.5	15	11	14	17.5
4x12	Eff. Area .199 ft <sup>2</sup>	CFM	60.3			80.1			100.9			119.6			137.3			158.1			177.8			198.6		
		NC	<20			20			25			30			30			35			35			40		
		Spread	3.5			5			6			7			8			9			10			12		
		Throw	4.5	5	5.5	5.5	6.5	7	7	8.5	9.5	7.5	9	10.5	9.5	11	12.5	11	13.5	15.5	11.5	14.5	17.5	12.5	15.5	19

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Size	Velocity		300			400			500			600			700			800			900			1000		
	Duct Pt		0.007			0.011			0.017			0.024			0.034			0.044			0.055			0.068		
4x14	Eff. Area .226ft <sup>2</sup>	CFM	65.5			87.4			110.2			132.1			152.9			175.8			197.6			218.4		
		NC	<20			20			25			25			30			35			35			40		
		Spread	4			5			6			7			9			10			11			12		
		Throw	4.5	5.5	6.5	6	7	8	7	8	9	8.5	10.5	12	10	11.5	13.5	11.5	13.5	16	12.5	15	18	13.5	16.5	20
6x6	Eff. Area .151 ft <sup>2</sup>	CFM	42.1			55.9			70.5			84.2			98.0			111.8			125.6			140.9		
		NC	<20			20			25			25			30			35			35			40		
		Spread	4			5			5			8			8			10			11			13		
		Throw	3	4	4.0	4.5	5	5.5	5.5	6	7	6.5	8.0	9.5	7	8.5	9.5	8.0	10.0	11.0	8	9	13	10.5	13	16
6x8	Eff. Area .174 ft <sup>2</sup>	CFM	52			69			87			104			121			138			155			174		
		NC	<20			20			25			30			35			35			40			40		
		Spread	4.5			6			7			9			10			12			13			15		
		Throw	3.5	4	4.5	5.5	6	6.5	6.5	7	7.5	7.5	9	10.5	8.5	10	11.5	10	12	14	11.5	14.5	17	12	15	18
6x10	Eff. Area .238 ft <sup>2</sup>	CFM	71			95			118			141			166			190			212			237		
		NC	<20			20			25			30			35			40			40			40		
		Spread	5			7			9			10.5			12			14			15			17		
		Throw	4.5	5	5.5	6.5	7	7.5	7.5	8.5	9.5	8.5	10	11.5	10	12	14	11.5	13.5	15.5	12	15	18	13.5	17	20
6x12	Eff. Area .275 ft <sup>2</sup>	CFM	85			113			140			169			197			225			255			282		
		NC	<20			20			25			30			35			40			40			45		
		Spread	6			8			9			11			13			15			17			19		
		Throw	5	5.5	6	6.5	7	7.5	8	9	10	9.5	11	12.5	11	13	15	13	15	17	13	17	20	15	19	22
6x14	Eff. Area .320 ft <sup>2</sup>	CFM	105			140			175			210			245			281			315			351		
		NC	<20			20			25			30			35			40			40			45		
		Spread	6			8			11			13			15			17			18			21		
		Throw	5.5	6	6.5	7	8	9	9	10	11	10	12	14	12.5	14.5	17	14.5	17	20	15	19	22	17	21	25
8x8	Eff. Area .256 ft <sup>2</sup>	CFM	78.0			104.0			129.0			155.0			181.5			207.5			233.5			259.5		
		NC	<20			20			25			30			35			35			40			40		
		Spread	6			8			9			11			13			15			16			18		
		Throw	5	5.5	6	6.5	7	7.5	8	9	10	9	10.5	12.5	10.5	12.5	14.5	12.5	14.5	16.5	12.5	16	19	14.5	18	21

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350 Series																										
Size	Velocity		300			400			500			600			700			800			900			1000		
	Duct Pt		0.007			0.011			0.017			0.024			0.034			0.044			0.055			0.068		
8x10	Eff. Area .305 ft <sup>2</sup>	CFM	96.7			129.0			160.0			192.2			225.1			257.3			289.5			321.8		
		NC	<20			20			25			30			35			40			40			40		
		Spread	7			9			10			12			15			17			18			20		
		Throw	5.5	6	6.5	7	7.5	8.5	8.5	9.5	11	9.5	11.5	13.5	12.0	13.5	16	14	16	19	14.5	18	21	16	20	23.5
8x12	Eff. Area .352 ft <sup>2</sup>	CFM	119.9			159.9			198.4			238.3			279.1			319.1			359.0			399.0		
		NC	<20			20			25			30			35			40			40			45		
		Spread	8			10			11			14			17			19			20			23		
		Throw	6	6.5	7	7.5	8.5	9.5	9.5	10.5	12	10.5	12.5	15	13	15.5	18	15.5	18	21	16	20	23	18	22.0	26
8x14	Eff. Area .407 ft <sup>2</sup>	CFM	148.7			198.3			246.0			295.5			346.1			395.6			445.2			494.8		
		NC	<20			20			25			30			35			40			40			45		
		Spread	9			12			13			16			19			22			23			26		
		Throw	6.5	7	7.5	8	9.5	10	10	11.5	13	11	13.5	16	14	16.5	19	16.5	19	22	17	21	25	19	23	28

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