## RESIDENTIAL/LIGHT-COMMERCIAL LOW-PRESSURE/VELOCITY DUCT SIZE TABLE

CFM Range	M Range Duct Sizes Round>Square>Flatter Rectangles Suggested Sizes									REMARKS
Maximum Best Practice	ROUND DUCT SIZE	SQUARE-ish		2:1 Flatter		3:1 Flat		4:1 Flattest		Do not use ducts greater than 3:1 aspect ratio on return/negative pressure side or greater than 4:1 or supply/positive pressure side, unless reinforced with tie-rods or other means per SMACNA
		W	Н	w	Н	W	н	W	Н	SIZING CRITERIA
RDG Br	anches									
50	4	No economical or practical rectangular equivalent.							Min. Size Bathroom Exhaust, 10 Ft. max.	
60	5	No economical or practical rectangular equivalent.						Terminal RDG 500 FPM Maximum Vel.		
100	6						3.25			Terminal RDG 500 FPM Maximum Vel.
140	7			-		14	3.25			Terminal RDG 500 FPM Maximum Vel.
180	8	8	8	10	6	12	5	16	4	Terminal RDG 500 FPM Maximum Vel.
260	10	10	10							Terminal RDG 500 FPM Maximum Vel.
400	12	12	12	16	8			24	6	Terminal RDG 500 FPM Maximum Vel.
Mains/Sub-Mains		SQUARE-ish		2:1 Flatter		3:1 Flat		4:1 Flattest		
CFM Max. Best Practice	Equiv. Round	w	Н	W	н	w	Н	w	Н	
	210 8 8 8 12 6					Minimum Recommended Sizes.			zes.	Greater of 0.08"/100 LF or 750 FPM Vel.
380	10		10	12			16			Greater of 0.08"/100 LF or 750 FPM Vel.
600	12	12			10	18		24	6	Greater of 0.08"/100 LF or 750 FPM Vel.
800	14		12		10	24		28		Greater of 0.08"/100 LF or 750 FPM Vel.
1150	16	16			12	24		32		Greater of 0.07"/100 LF or 800 FPM Vel.
1400	18	18			12	30		36	-	Greater of 0.06"/100 LF or 900 FPM Vel.
2000	20	20			16	30			10	Greater of 0.06"/100 LF or 900 FPM Vel.
3000	24		20		16	40			12	Greater of 0.05"/100 LF or 950 FPM Vel.
3750	26	26			18	40			14	Greater of 0.05"/100 LF or 1000 FPM Vel.
4200	28		24		20	40			14	Greater of 0.05"/100 LF or 1000 FPM Vel.
5000	30		24 26		20	40 54			14	Greater of 0.05"/100 LF or 1000 FPM Vel.
NOTES:										
1. Duct const	ruction per SN	ACNA to 2	2" WG Press	sure Class (i.	e. "Low-Pres	ssure/Low-Ve	locity". Sea	al Class A, Lea	akage Cla	ss 3 minimum standard.
2. Sizes are r	ecommended a	and repres	entative. Us	se duct calcu	lator for otl	her sizes and	use your p	rofessional ju	udgement	
3. As a gener	al rule, the clos	ser you ar	e to the diff	user or grille	or the roor	n served, the	lower shal	l be the velo	city.	
1. Sizes are "	rounded-up" to	whole si	ngle or even	numbered	inches unles	ss otherwise	noted. Use	what is econ	omical fo	r your duct methods.
5. Chart is fo	r the convenier	nce of resp	onsible cor	ntractors and	does not c	onstitute pro	fessional ei	ngineering ac	vice. All	risk is assumed by the user.
5 Each annli	cation varies. T	his chart i	s for genera	HVAC use.	supply retu	irn and gener	al or toilet	exhaust It is	not for u	se in sizing dryer exhaust.
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