



Norman S. Wright  
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## Velocity Duct Sizing Chart Residential

### Main Supply Trunk Ducts, Non-zoned systems

(target velocity of 800FPM used)

Listed by air quantity, round duct size and nearest square duct size

500CFM	11"Ø or 10 X 10	1,300CFM	16"Ø or 14 X 16
600CFM	12"Ø or 10 X 12	1,400CFM	18"Ø or 16 X 16
700CFM	12"Ø or 10 X 12	1,500CFM	18"Ø or 16 X 18
800CFM	14"Ø or 12 X 14	1,600CFM	18"Ø or 16 X 18
900CFM	14"Ø or 12 X 14	1,700CFM	20"Ø or 18 X 18
1,000CFM	16"Ø or 14 X 14	1,800CFM	20"Ø or 18 X 18
1,100CFM	16"Ø or 14 X 16	1,900CFM	20"Ø or 18 X 20
1,200CFM	16"Ø or 14 X 16	2,000CFM	20"Ø or 18 X 20

### Branch Supply Ducts, Non-zoned systems

(target velocity of 500FPM used)

Listed by air quantity, round duct size and nearest square duct size

100CFM	6"Ø or 4 X 8	450CFM	12"Ø or 10 X 12
150CFM	7"Ø or 6 X 8	500CFM	14"Ø or 12 X 14
200CFM	8"Ø or 6 X 10	550CFM	14"Ø or 12 X 14
250CFM	9"Ø or 6 X 12	600CFM	16"Ø or 14 X 16
300CFM	10"Ø or 8 X 10	650CFM	16"Ø or 14 X 16
350CFM	11"Ø or 10 X 12	700CFM	16"Ø or 14 X 16
400CFM	12"Ø or 10 X 12	800CFM	16"Ø or 14 X 16

Note: Size return air trunks and branch ducts same as supply.

*The use of these charts does not guarantee a properly designed duct system and should not be used if any question regarding proper design exist. ACCA Manual D should be consulted for detailed information regarding the proper design of Air Distribution systems.*



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## Velocity Duct Sizing Chart

### Main Supply Trunk Ducts, zoned systems

(target velocity of 600FPM used)

Listed by air quantity, round duct size and nearest square duct size

500CFM	12"Ø or 10 X 12	1,300CFM	20"Ø or 18 X 20
600CFM	14"Ø or 12 X 14	1,400CFM	20"Ø or 18 X 20
700CFM	14"Ø or 12 X 14	1,500CFM	20"Ø or 18 X 20
800CFM	16"Ø or 14 X 16	1,600CFM	22"Ø or 20 X 20
900CFM	16"Ø or 14 X 16	1,700CFM	22"Ø or 20 X 20
1,000CFM	18"Ø or 16 X 18	1,800CFM	22"Ø or 20 X 20
1,100CFM	18"Ø or 16 X 18	1,900CFM	24"Ø or 22 X 24
1,200CFM	18"Ø or 16 X 18	2,000CFM	24"Ø or 22 X 24

### Branch Supply Ducts, zoned systems

(target velocity of 400FPM used)

Listed by air quantity, round duct size and nearest square duct size

100CFM	7"Ø or 6 X 8	450CFM	14"Ø or 12 X 14
150CFM	8"Ø or 6 X 10	500CFM	14"Ø or 12 X 14
200CFM	9"Ø or 6 X 12	550CFM	16"Ø or 14 X 16
250CFM	10"Ø or 8 X 10	600CFM	16"Ø or 14 X 16
300CFM	11"Ø or 10 X 12	650CFM	16"Ø or 14 X 16
350CFM	12"Ø or 10 X 12	700CFM	16"Ø or 14 X 16
400CFM	14"Ø or 12 X 14	800CFM	18"Ø or 16 X 16

Note: Size return air trunks and branch ducts same as supply.

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