STEP 1 & 2

ROOM AIR FLOW REQUIREMENT CHART
RESIDENTIAL

Find the square foot of the room by measuring the length x width. (L x W)

Using the Room Size Chart below, find the air required for the room. Multiply the square footage found in step 1 by 0.66 (Length x Width x 0.66)

ROOM WIDTH IN FEET

ROOM LENGTH IN FEET	5	6	7	8	9	10	11	12	13	14
5	16	20	23	26	30	33	36	40	43	46
6	20	24	28	32	36	40	44	47	51	55
7	23	28	32	37	42	46	51	55	60	65
8	26	32	37	42	48	53	58	63	69	74
9	30	36	42	48	53	59	65	71	77	83
10	33	40	46	53	59	66	73	79	86	92
11	36	44	51	58	65	73	80	87	94	102
12	40	47	55	63	71	79	87	95	103	111
13	43	51	60	69	77	86	94	103	112	120
14	46	55	65	74	83	92	102	111	120	129
15	49	59	69	79	89	99	109	119	129	139
16	53	63	74	84	95	106	116	127	137	148
17	56	67	79	90	101	112	123	135	146	157
18	59	71	83	95	107	119	131	143	154	166

Example: Room Size = 10'x10' Air flow=66cfm

Note: For room sizes not shown take (room width x room length x .66= air flow)
Example: 20' x 18' x .66 = Air Flow 238cfm

STEP 3 - If there is more than one register in the room, divide this number by the number of registers in the room (this indicates the CFM needed per register).

STEP 4

COMFORT RING CHART

Comfort Ring Product #

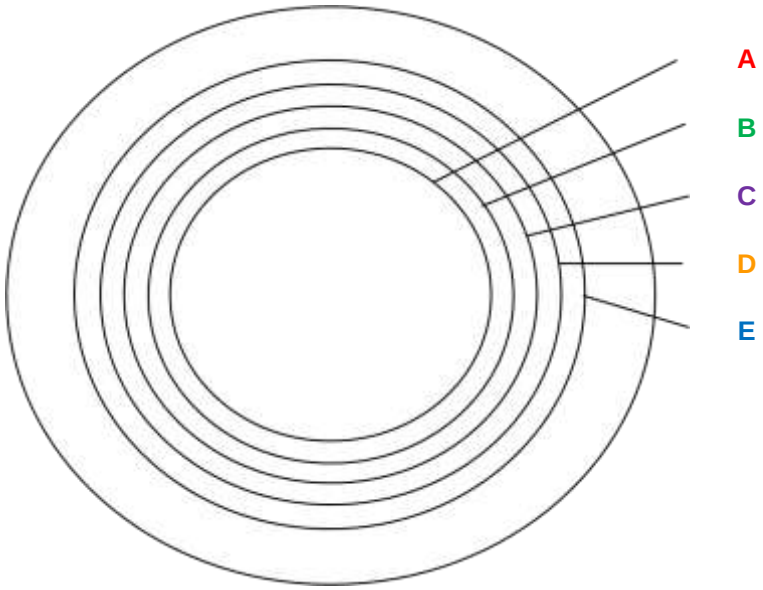
	Detachable Ring A-E / Orifice Size				
	A	B	C	D	E
MO-4	1 1/2" cfm	2" cfm	2 1/2" cfm	3" cfm	
MO-5	1 11/16" cfm	2 3/16" cfm	2 11/16" cfm	3 3/16" cfm	3 11/16" cfm
MO-6	2" 27cfm	2 1/2" 35cfm	3" 50cfm	3 1/2" 72cfm	4" 97cfm
MO-7	3" 35cfm	3 1/2" 78cfm	4" 105cfm	4 1/2" 152cfm	5" 186cfm
MO-8	4" 88cfm	4 1/2" 120cfm	5" 150cfm	5 1/2" 180cfm	6" 220cfm
MO-10	6" 200cfm	6 1/2" 240cfm	7" 340cfm	7 1/2" 470cfm	8" 580cfm
MO-12	8" 400cfm	8 1/2" 480cfm	9" 580cfm	9 1/2" 695cfm	10" 880cfm

CFM @.08" System Pressure

STEP 4

COMFORT RING DIAGRAM

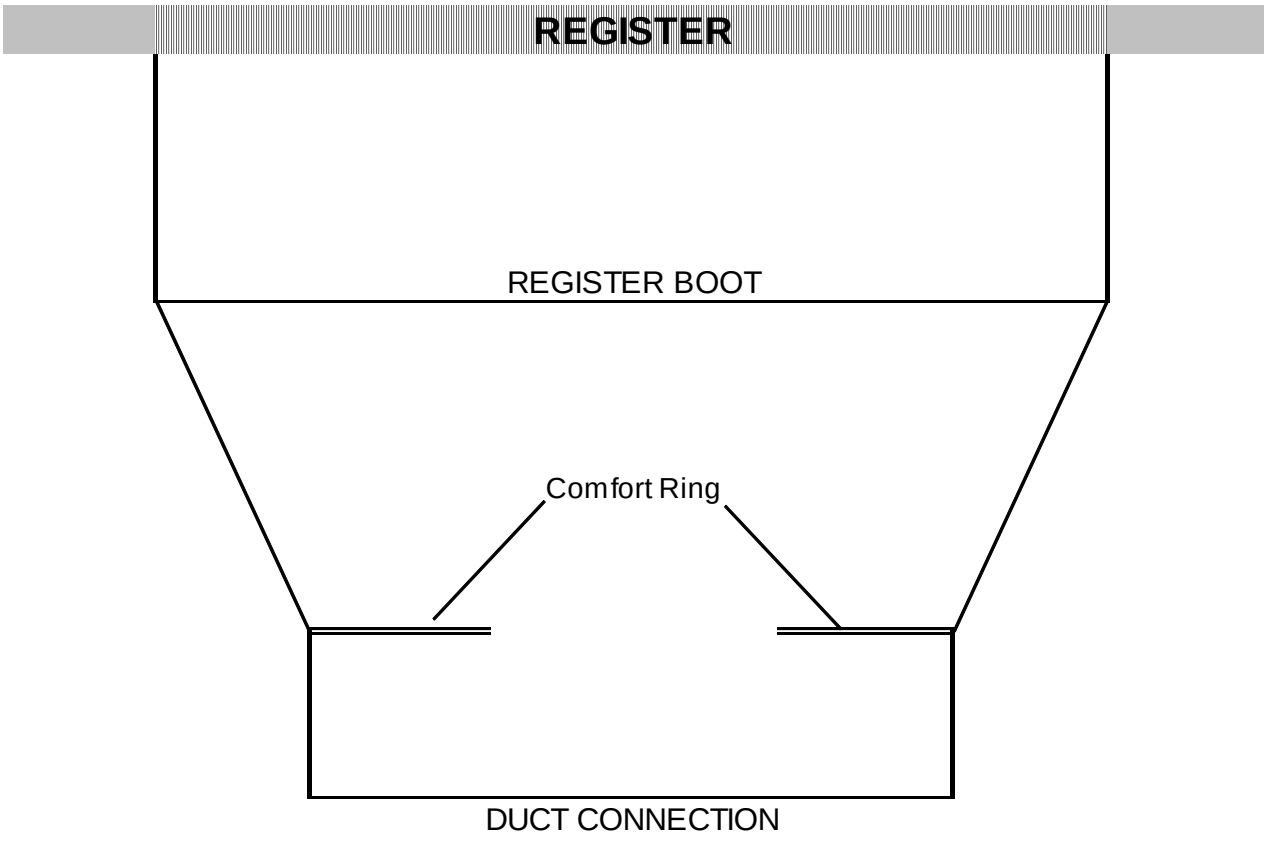
Measure the air duct size serviving the register, using the Comfort Ring Balance Chart, and match the orifice size to the air required (determined in Step 1) to determine which size of Comfort Ring you need. Then remove the detachable rings until you reach the correct orifice size on the Comfort Ring.



STEP 5

COMFORT RING INSTALLATION

Remove the register and insert the "Comfort Ring" selected for this register into the "register boot" then reinstall register (Make sure register damper is 100% open if provided).



Complete these steps in every room that has a register.

ADDITIONAL INFO

In some cases, you may find that the required amount of air exceeds the selection on the Comfort Ring. If this is the case, do not install a Comfort Ring in the register and follow Steps 1-3.

After Installation

After you have proportioned the air in every room using the Comfort Ring, wait a few hours to let the temperature throughout your home to equalize.
You should experience temperatures within + or - two degrees after balancing the air throughout your home or office.
If you do not, you should consult a professional to evaluate your heating and cooling system.

Need Less Air?

If you find a room that may need a little less air, you can reduce the air flow by using the register damper by closing it slightly.

Need More Air?

If you find a room that may need a little more air, simply remove the Comfort Ring. Remove the next orifice ring, and reinstall.