

MODEL

- RM1- Steel round diffuser, 3 cones, 2 position adjustments
- 5RM1 - Aluminum round diffuser, 3 cones, 2 position adjustments

FEATURES

- Horizontal only air distribution
- Designed for heating and cooling applications
- 360° discharge air pattern
- Excellent performance in variable air volume systems
- Designed for exposed duct or hard ceiling applications
- Two Cone Positions: Position 1 to maximize capacity, position 2 to increase room air induction

INLET SIZES

- Round: 6" - 20" (2" increments), 24", 30", 36"^{1 2}

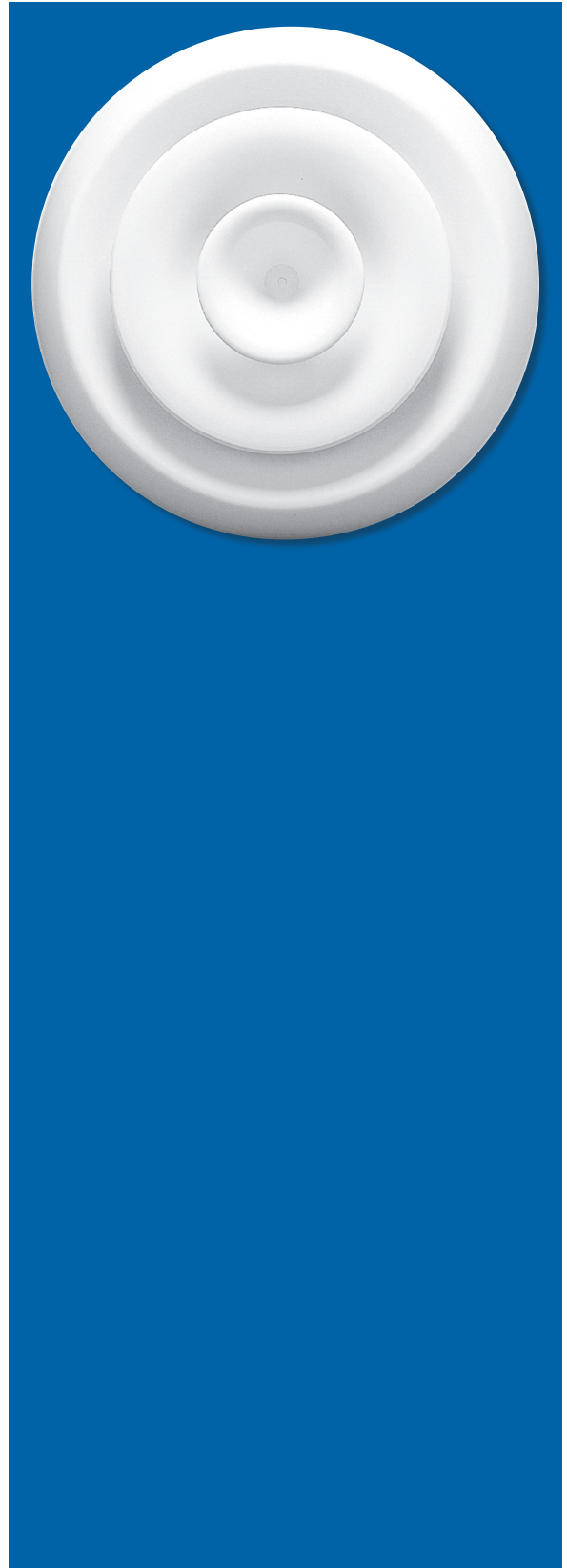
COMPATIBLE OPTIONS AND ACCESSORIES

- Safety chain (optional on sizes under 12", standard on 12" and larger)
- PR10 - Steel, radial opposed blade damper, 12" max (neck mount)
- PRN100 - Steel, radial fan damper, 14" max (neck mount)
- PRD10 - Steel, radial opposed blade damper (duct mount)
- PRD100 - Steel, radial fan damper, 14" max (duct mount)
- PR12 - Steel, butterfly bladed damper, 24" max (duct mount)
- RSG15 - Steel, round straightening grid (duct mount)
- PRSG15 - Steel, round straightening grid
- OBDDM - Steel, square or rectangular damper (duct mount)
- EX8 - Steel duct extractor with 1" blade spacing (duct mount)
- EX88 - Steel duct extractor with 2" blade spacing (duct mount)

NOTES: Not all options available with all configurations or one another. Some options must be ordered separately. See website for complete compatibility.

¹ Largest inlet size available for 5RM1 is 18".

² Safety chain included on all units with 12" or greater inlet size.

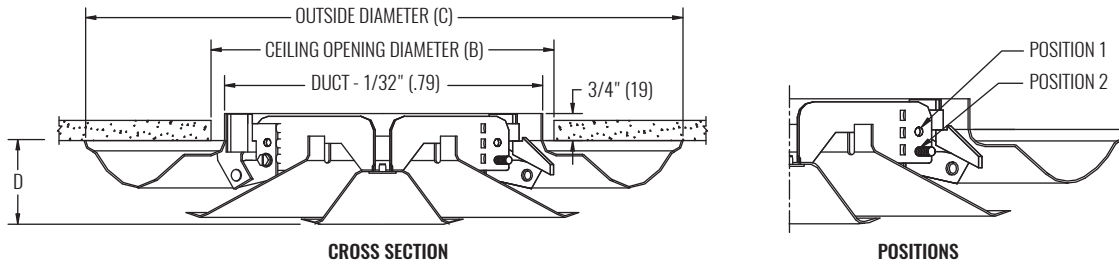


RM1 / 5RM1

Round Diffuser, 3 Cones



DIMENSIONAL DATA



DIMENSIONS					
RM1 NOMINAL ROUND DUCT	5RM1 NOMINAL ROUND DUCT	B	C	POSITION 1 D	POSITION 2 D
6"	6"	6 1/2" (165)	11 1/8" (283)	1 3/4" (44)	1 1/8" (29)
8"	8"	8 1/2" (216)	14 3/4" (375)	2 1/8" (54)	1 1/2" (38)
10"	10"	10 1/2" (267)	18 1/4" (460)	2 7/8" (73)	2 1/8" (54)
12"	12"	12 1/2" (318)	22" (559)	3 1/8" (79)	2 3/8" (60)
14"	14"	14 1/2" (368)	26" (660)	3 3/8" (86)	2 5/8" (67)
16"	16"	16 1/2" (419)	29" (737)	4" (102)	3 1/4" (83)
18"	18"	18 1/2" (470)	32 1/2" (826)	4 3/4" (121)	3 7/8" (98)
20"	-	20 1/2" (520)	36" (914)	5 7/8" (149)	4 7/8" (124)
24"	-	24 1/2" (622)	43 1/4" (1095)	7 3/4" (197)	6 5/8" (168)
30"	-	30 1/2" (775)	53 3/4" (1365)	8 1/8" (206)	6 5/8" (168)
36"	-	36 1/2" (927)	64 1/2" (1638)	10 1/8" (257)	8 3/8" (213)

PERFORMANCE AND DESIGN DATA

SIZE		PERFORMANCE				DESIGN - BASED ON POSITION 1		
NOMINAL INLET	POSITION	NC (< 25)		NC (25 - 40)		CFM @ NC-30	SPACING @ 0.6 CFM/sf (ft)	MINIMUM CFM/sf
		CFM	THROW (ft)	CFM	THROW (ft)			
HORIZONTAL DISCHARGE AIR PATTERN								
6"	1	79 - 185	5 - 9	196 - 300	9 - 11	200	18	0.30
6"	2	79 - 145	6 - 8	157 - 250	8 - 10	170	17	N/A
8"	1	70 - 300	3 - 11	325 - 489	11 - 14	370	25	0.30
8"	2	70 - 250	4 - 10	265 - 419	11 - 13	300	22	N/A
10"	1	218 - 450	8 - 14	475 - 715	14 - 17	545	30	0.30
10"	2	218 - 375	9 - 13	390 - 625	13 - 16	450	27	N/A
12"	1	157 - 620	5 - 16	650 - 990	16 - 20	725	35	0.30
12"	2	157 - 515	6 - 15	550 - 864	15 - 19	625	32	N/A
14"	1	214 - 790	6 - 18	855 - 1283	19 - 23	960	40	0.30
14"	2	214 - 690	7 - 17	715 - 1176	17 - 22	820	37	N/A
16"	1	279 - 1000	7 - 20	1075 - 1676	21 - 26	1220	45	0.30
16"	2	279 - 875	8 - 19	915 - 1450	20 - 25	1050	42	N/A

NOTES: Information shown is abbreviated. See website for complete information. Dimensions in parentheses are millimeters (mm). Throw value ranges are given for isothermal conditions, unless otherwise noted, and a terminal velocity of 50 FPM (0.25 m/s). NC ranges are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. Design spacing is recommended distance between diffusers in an open plan office based on ADPI > 80%, 9ft ceiling, and 55°F discharge at 30 NC and 0.6 CFM/sf. Minimum CFM/sf is based on recommended spacing at 80% ADPI. Design recommendations not applicable to vertical throw. "N/A" in design table denotes inapplicable situations or those which do not result in ADPI>80% and are therefore not recommended.

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