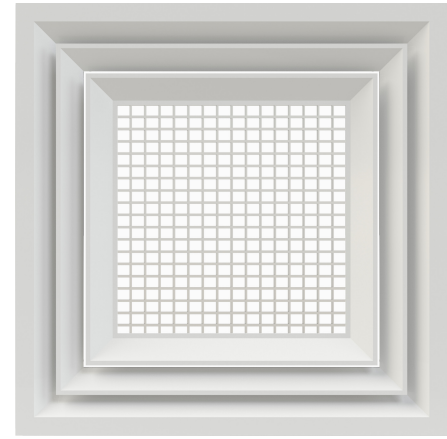


DIR MODEL

EXTRUDED ALUMINUM LOUVERED COMBINATION SUPPLY/RETURN DIRECTIONAL DIFFUSER

- For HVAC application, with a horizontal air pattern with a return system section.
- Removable core that facilitates installation and access to control accessories.



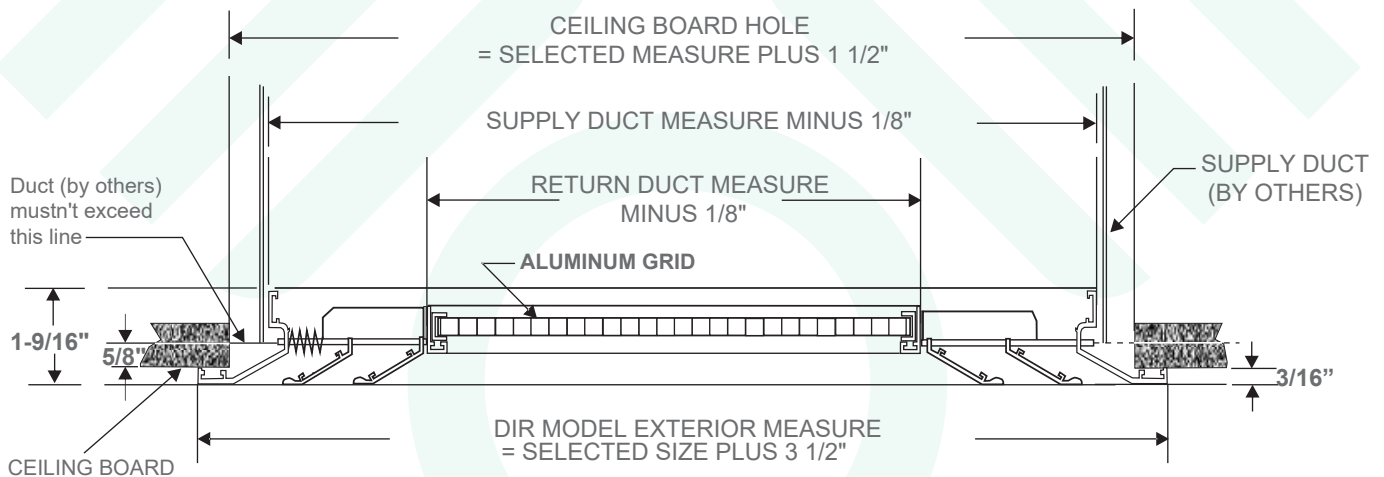
CONSTRUCTION: Extruded Aluminum.

FINISH: Standard white Anodic acrylic paint.
Other colors available.

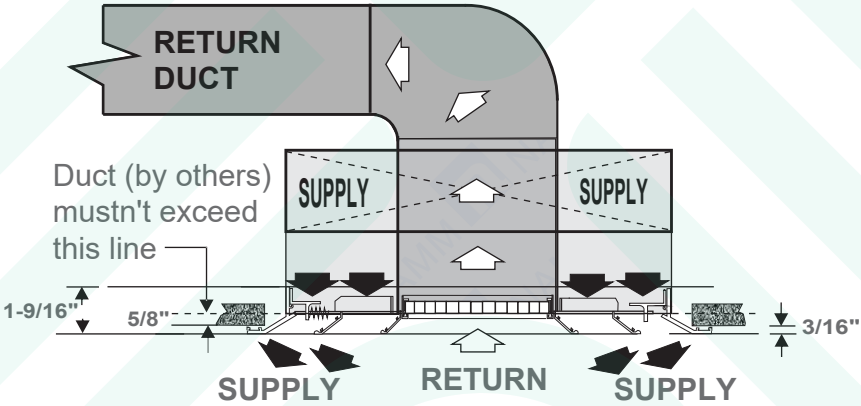
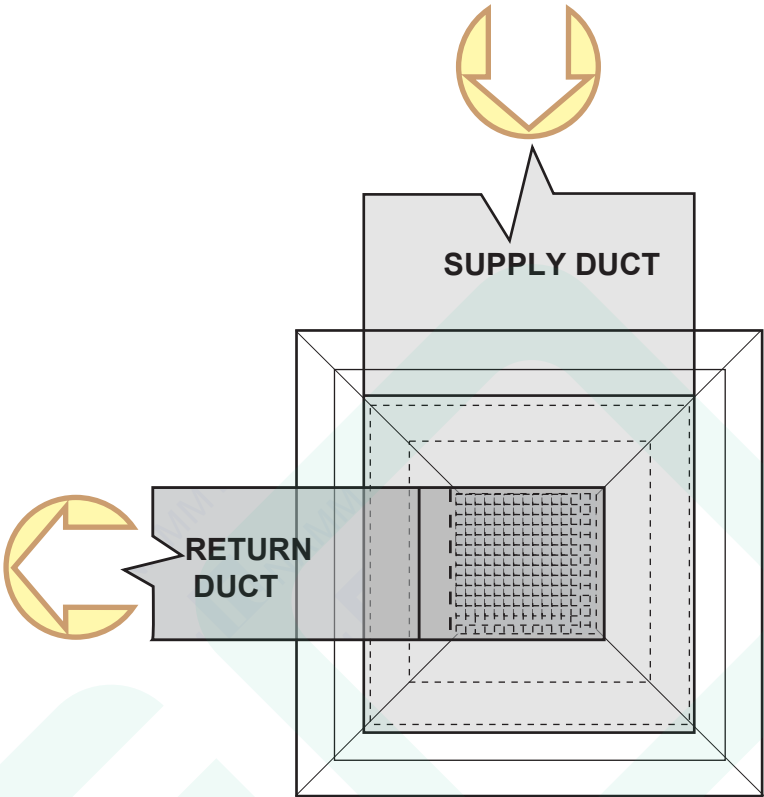
PERFORMANCE: Its high induction differential temperature in cooling from 20 to 25°F, with a low air velocity in the room of 35 Feet/min.

Dimensional Data

DIR MODEL



DIFUSSER DIR MODEL



SIZE	SUPPLY DUCT	RETURN DUCT	DUCT AREA, FT ²		
			TOTAL	SUPPLY	RETURN
24" X 24"	24" X 24"	18" X 18"	4.00	1.75	2.25
30" X 30"	30" X 30"	21" X 21"	6.25	3.19	3.06
36" X 36"	36" X 36"	24" X 24"	9.00	5.00	4.00

PERFORMANCE DATA

LISTED SIZE - INCHES		SUPPLY OUTLET VELOCITY (V _K) - FEET / MIN.								
		500	750	1000	1250	1500	2000	2500	3000	
OUTLET AREA FT ² } AK		SUPPLY TOTAL PRESSURE (TP) - INCHES H ₂ O								
NECK AREA FT ² } AN		0.019	0.038	0.060	0.100	0.140	0.250	0.350	0.440	
SUPPLY	24 x 24 AK=0.70 Pies ² (Ft ²) AN=1.75 Pies ² (Ft ²)	CFM	350	525	700	875	1050	1400	1750	2100
		THROW - FT	3 - 5	4 - 8	5 - 11	6 - 13	8 - 16	13 - 25	17 - 34	22 - 42
		V _N	200	300	400	500	600	800	1000	1200
		SP	0.010	0.030	0.050	0.086	0.115	0.200	0.270	0.350
RETURN	18 x 18 AK=2.12 Pies ² (Ft ²) AN=2.25 Pies ² (Ft ²)	CFM	280	420	560	700	840	1120	1400	1680
		INLET VEL.	132	198	264	330	395	530	660	795
		SP	-0.010	-0.010	-0.020	-0.020	-0.030	-0.050	-0.070	-0.090
NOISE CRITERIA		NC	-	22	25	28	31	35	40	45

FROM 3 TO 5 TONS.

LISTED SIZE - INCHES		SUPPLY OUTLET VELOCITY (V _K) - FEET / MIN.								
		500	750	1000	1250	1500	1750	2000	2250	
OUTLET AREA } AK		SUPPLY TOTAL PRESSURE (TP) - INCHES H ₂ O								
NECK AREA } AN		0.019	0.038	0.060	0.100	0.140	0.190	0.250	0.310	
SUPPLY	30 x 30 AK=1.30 Pies ² (Ft ²) AN=3.18 Pies ² (Ft ²)	CFM	650	975	1300	1625	1950	2275	2600	2925
		THROW-FT	3 - 7	5 - 12	7 - 16	9 - 17	11 - 22	13 - 26	16 - 31	19 - 35
		V _N	200	300	400	500	600	700	800	900
		SP	0.010	0.030	0.050	0.086	0.115	0.160	0.200	0.240
RETURN	21 x 21 AK=2.88 Pies ² (Ft ²) AN=3.06 Pies ² (Ft ²)	CFM	520	780	1040	1300	1560	1820	2080	2340
		INLET VEL.	180	270	360	451	542	632	722	812
		SP	-0.010	-0.010	-0.020	-0.020	-0.030	-0.040	-0.050	-0.060
NOISE CRITERIA		NC	24	27	30	33	36	40	43	48

FROM 5 TO 7 1/2 TONS.

LISTED SIZE - INCHES		VELOCIDAD DE SALIDA DE INYECCION (V _K) - PIES / MIN / SUPPLY OUTLET VELOCITY (V _K) - FEET / MIN.								
		500	750	1000	1250	1500	1750	2000	2250	
OUTLET AREA } AK		PRESION TOTAL DE INYECCION (P _T) - PULGS. H ₂ O / SUPPLY TOTAL PRESSURE (TP) - INCHES H ₂ O								
NECK AREA } AN		0.019	0.038	0.060	0.100	0.140	0.190	0.250	0.250	
SUPPLY	36 x 36 AK=2.00 Pies ² (Ft ²) AN=5.00 Pies ² (Ft ²)	CFM	1000	1500	2000	2500	3000	3500	4000	4500
		THROW - FT	4 - 8	5 - 13	9 - 19	12 - 23	15 - 29	17 - 34	22 - 39	26 - 44
		V _N	200	300	400	500	600	700	800	900
		SP	0.010	0.030	0.050	0.086	0.115	0.160	0.200	0.240
RETURN	24 x 24 AK=3.76 Pies ² (Ft ²) AN=4.00 Pies ² (Ft ²)	CFM	800	1200	1600	2000	2400	2800	3200	3600
		INLET VEL.	213	319	425	532	638	745	851	957
		SP	-0.010	-0.010	-0.020	-0.020	-0.030	-0.040	-0.050	-0.060
NOISE CRITERIA		NC	27	30	33	36	40	45	50	53

FROM 7 1/2 TO 10 TONS.

NOMENCLATURE:

V_K = OUTLET VELOCITY IN FEET/ MIN.
 AK = OUTLET AREA IN SQUARE FEET
 V_N = NECK VELOCITY IN FEET/MIN.
 AN = NECK AREA IN SQUARE FEET
 TP = TOTAL PRESSURE INCHES H₂O
 SP = STATIC PRESSURE INCHES H₂O
 CFM = CUBIC FEET PER MINUTE