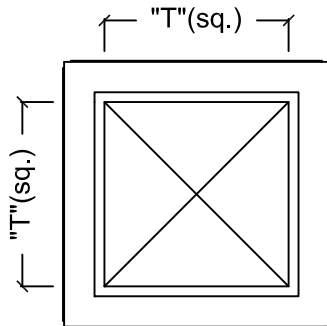
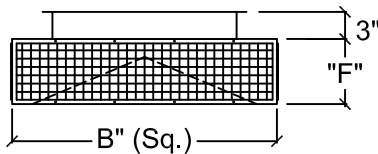


SUBMITTAL DATA

Drop Diffuser/Plenums



PLAN



ELEVATION



STANDARD FEATURES:

- ☐ *Double Deflection Grilles
- ☐ Four-sided Pyramid air diverter for maximum performance
- ☐ 1" Ultra Lite Duct Liner
- ☐ TDC Duct Connection
- ☐ Galvanized Steel Construction
- 24 gauge LPD 1806-5 thru 2608-8.5
- 20 gauge LPD 2808-10 thru 3408-15
- 18 gauge LPD 4410-20 thru 4810-25

OPTIONS:

- ☐ Custom Built up to 200,000 cfm
- ☐ Powder Coated
- ☐ 3/8" Nut Insert at each corner for mounting
- ☐ "Premium Performance"- 360° Rotating drop diffuser (1.5 RPM- Electric motor driven)
- (Note: duct connection changes to round-equivalent square)
- ☐ Omit pyramid center air diverter
- ☐ Omit insulation
- ☐ Damper behind grilles

QTY	MODEL #	"T" (sq.)	"B" (sq.)	"F"	GRILLE SIZE	NOMINAL CFM	TONS	*THROW	N.C.	VELOCITY PRESSURE in w.g.	TOTAL PRESSURE in w.g. @ zero deflection
	LPD-1806-5	14"	22"	8"	18" x 6"	2,000	5	22-29-40	26	.041	.095
	LPD-2206-6	16"	26"	8"	22" x 6"	2,400	6	19-26-35	24	.033	.075
	LPD-2606-7.5	20"	30"	8"	26" x 6"	3,000	7.5	28-36-49	28	.042	.096
	LPD-2608-8.5	20"	30"	10"	26" x 8"	3,400	8.5	24-37-50	19	.020	.050
	LPD-2808-10	22"	32"	10"	28" x 8"	4,000	10	30-41-56	26	.039	.090
	LPD-3008-12.5	24"	34"	10"	30" x 8"	5,000	12.5	31-43-60	25	.030	.071
	LPD-3408-15	28"	38"	10"	34" x 8"	6,000	15	37-49-68	30	.040	.094
	LPD-4410-20	30"	48"	12"	44" x 10"	8,000	20	36-51-71	26	.027	.068
	LPD-4810-25	36"	52"	12"	48" x 10"	10,000	25	48-64-90	32	.040	.094

*Throws based on 150-100-50 FPM terminal velocities with aid of a ceiling.

ISOTHERMAL CONDITIONS @ ZERO DEFLECTION

3 ft. below ceiling reduces throw 10% isothermal
4 ft. below ceiling reduces throw 20% isothermal
no ceiling reduces throw 30% isothermal

cold supply (20°F ΔT) reduces horizontal throw 30% while increasing vertical throw by 30%
warm air (20°F ΔT) increases horizontal throw 30% while reducing vertical throw by 30%

CORRECTION FACTOR

Deflection	22.5°	45°
NC	+5	+10
Throw	x .81	x .77
Total Pressure	x 1.3	x 1.81

Job Name:	☐ MODEL LPD <i>Low Profile Plenum Diffuser</i>		
Location:			
Architect:	DRAWN BY: CLJ	DATE: 9-1-99	REV. DATE: 5-29-12
Engineer:	REV. NO. 9	APPROVED BY: CLJ	DWG. NO.: H-7
Contractor:			