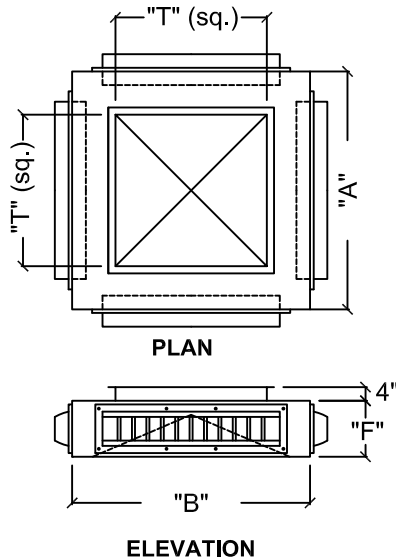


SUBMITTAL DATA

Drop Diffuser/Plenums



STANDARD FEATURES:

- ☐ *Drum Louvers
- ☐ 1" Ultra Lite Duct Liner
- ☐ 3/8" Nut Insert for mounting
- ☐ TDC Duct Connection
- ☐ G90 Galvanized Steel Construction Per SMACNA Requirements
- ☐ Turning Vanes

OPTIONS:

- ☐ Custom Built up to 100,000 cfm
- ☐ Powder Coated
- ☐ "Premium Performance"- 360° rotating drop diffuser (1.5 RPM- Electric motor driven)
- (Note: duct connection changes to round-equivalent square)
- ☐ Omit Turning Vanes
- ☐ Omit insulation

QTY	MODEL #	"T" (sq.)	"A"	"B"	"F"	GRILLE SIZE	NOMINAL CFM	TONS	*THROW	N.C.	VELOCITY PRESSURE in w.g.	TOTAL PRESSURE in w.g. @ zero deflection
	DPD1806-5T	20"	28"	28"	9"	18" x 6"	2000	5	35-43-61	43	.062	.433
	DPD1806-6T	20"	28"	28"	9"	18" x 6"	2,400	6	43-53-74	44	.062	.370
	DPD2406-7.5T	22"	34"	34"	9"	24" x 6"	3,000	7.5	50-61-86	38	.040	.205
	DPD2406-8.5T	22"	34"	34"	9"	24" x 6"	3,400	8.5	56-68-96	40	.045	.210
	DPD2010-10T	24"	30"	30"	13"	20" x 10"	4,000	10	52-65-91	44	.059	.290
	DPD2010-12.5T	24"	30"	30"	13"	20" x 10"	5,000	12.5	52-65-91	44	.059	.290
	DPD2510-13T	28"	35"	35"	13"	25" x 10"	5,200	13	60-73-101	41	.049	.201
	DPD2510-15T	28"	35"	35"	13"	25" x 10"	6,000	15	60-73-101	41	.049	.201
	DPD3012-17.5T	30"	42"	42"	15"	30" x 12"	7,000	17.5	65-82-111	41	.037	.162
	DPD3012-20T	30"	42"	42"	15"	30" x 12"	8,000	20	71-88-122	41	.041	.170
	DPD4010-25T	36"	50"	50"	13"	40" x 10"	10,000	25	76-93-131	36	.031	.159
	DPD4015-30T	38"	55"	55"	18"	40" x 15"	12,000	30	86-105-149	38	.032	.160
	DPD5015-40T	40"	65"	65"	18"	50" x 15"	16,000	40	88-108-154	40	.031	.159
	DPD6015-50T	48"	75"	75"	18"	60" x 15"	20,000	50	89-110-155	38	.032	.136
	DPD7015-62.5T	50"	85"	85"	18"	70" x 15"	25,000	62.5	113-141-195	45	.042	.120

*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%

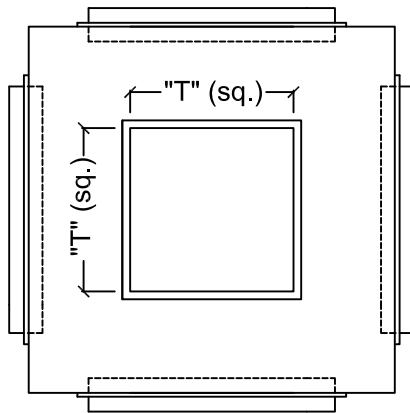
CORRECTION FACTOR

Deflection	15°	30°
NC	+4	+9
Throw	x .85	x .73
Total Pressure	x 1.5	x 1.9

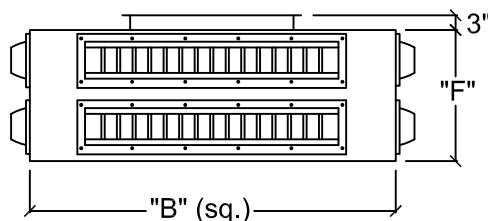
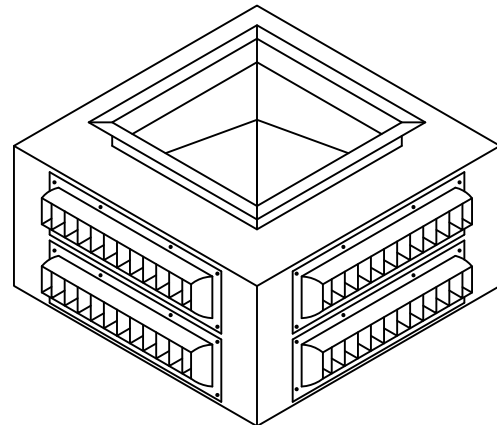
Job Name:	☐ MODEL DPD <i>Drum Louver Plenum Diffuser</i>		
Location:			
Architect:	DRAWN BY: CLJ	DATE: 9-1-99	REV. DATE: 8-6-20
Engineer:	REV. NO. 15	DWG. NO.: H-1	
Contractor:			

SUBMITTAL DATA

Drop Diffuser/Plenums



PLAN



ELEVATION

STANDARD FEATURES:

- ☐ *Drum Louvers
- ☐ 1" Ultra Lite Duct Liner
- ☐ TDC Duct Connection
- ☐ G90 Galvanized Steel Construction Per SMACNA Requirements

OPTIONS:

- ☐ Custom Built up to 200,000 cfm
- ☐ Powder Coated
- ☐ Omit insulation

QTY	MODEL #	"T" (sq.)	"B"	"F"	GRILLE SIZE	NOMINAL CFM	TONS	*THROW	N.C.	VELOCITY PRESSURE in w.g.	TOTAL PRESSURE in w.g. @ zero deflection
	DPD6012-75T	54"	70"	36"	60" x 12"	30,000	75	97-118-166	42	.040	.160
	DPD6015-87.5T	56"	70"	42"	60" x 15"	35,000	87.5	105-125-175	42	.040	.150
	DPD7012-105T	58"	80"	36"	70" x 12"	42,000	105	115-141-200	46	.050	.160

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

ISOTHERMAL CONDITIONS @ ZERO DEFLECTION

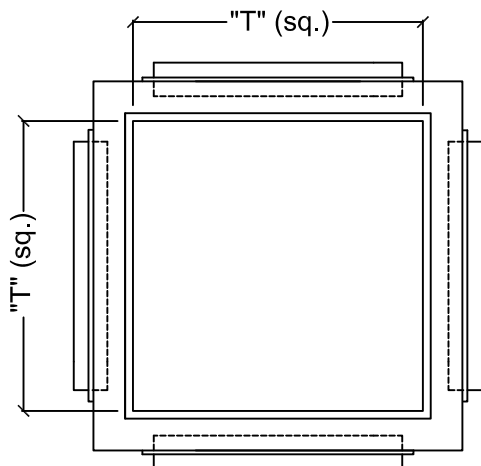
3 ft. below ceiling reduces throw 10% isothermal
4 ft. below ceiling reduces throw 20% isothermal
no ceiling reduces throw 30% isothermal

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%

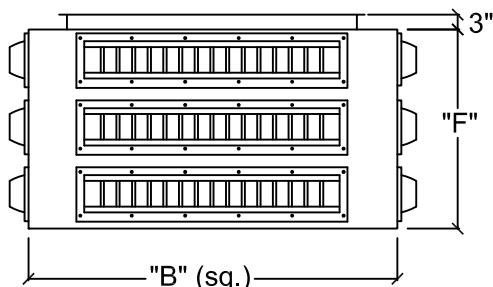
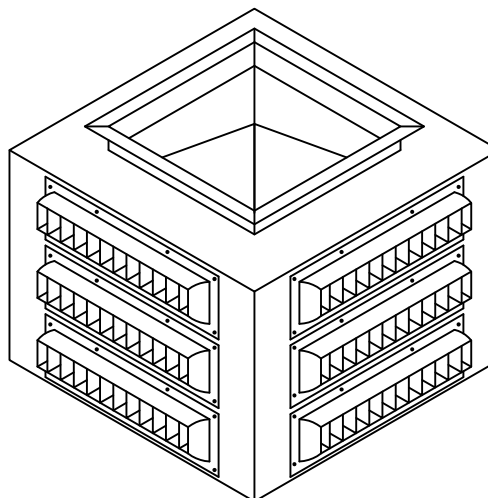
CORRECTION FACTOR

Deflection	15°	30°
NC	+4	+9
Throw	x .85	x .73
Total Pressure	x 1.5	x 1.9

Job Name:	☐ MODEL DPD <i>Drum Louver Plenum Diffuser</i>		
Location:			
Architect:	DRAWN BY: CLJ	DATE: 12-21-17	REV. DATE: 6-15-18
Engineer:	REV. NO. 13	APPROVED BY: JAS	DWG. NO.: H-2
Contractor:			



PLAN



ELEVATION

STANDARD FEATURES:

- ☐ *Drum Louvers
- ☐ 1" Ultra Lite Duct Liner
- ☐ TDC Duct Connection
- ☐ G90 Galvanized Steel Construction
Per SMACNA Requirements

OPTIONS:

- ☐ Custom Built up to 200,000 cfm
- ☐ Powder Coated
- ☐ Omit insulation

QTY	MODEL #	"T" (sq.)	"B"	"F"	GRILLE SIZE	NOMINAL CFM	TONS	*THROW	N.C.	VELOCITY PRESSURE in w.g.	TOTAL PRESSURE in w.g. @ zero deflection
	DPD7012-150T	70"	84"	51"	70" x 12"	60,000	150	102-124-172	43	.040	.132
	DPD7015-200T	74"	84"	60"	70" x 15"	80,000	200	110-135-191	46	.050	.160

*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% isotheramal
4 ft. below ceiling reduces throw 20% isotheramal
no ceiling reduces throw 30% isotheramal

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	15°	30°
NC	+4	+9
Throw	x .85	x .73
Total Pressure	x 1.5	x 1.9

Job Name:

Location:

Architect:

Engineer:

Contractor:

☐ **MODEL DPD**

*Drum Louver
Plenum Diffuser*

DRAWN BY:
CLJ

DATE:
12-21-17

REV. DATE:
6-15-18

REV. NO.
13

APPROVED BY:
JAS

DWG. NO.:
H-3