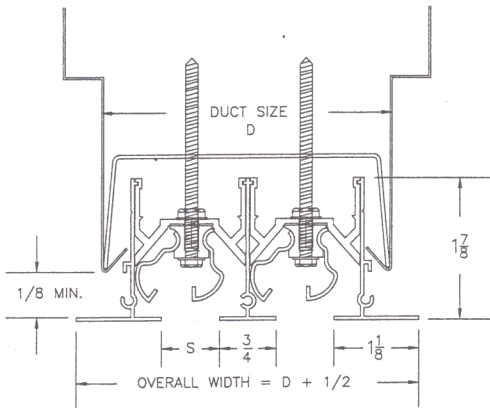


AIR DISTRIBUTION SUBMITTAL

SURFACE MOUNT APPLICATION

HEMMED DUCT FOR CONCEALED FASTENING

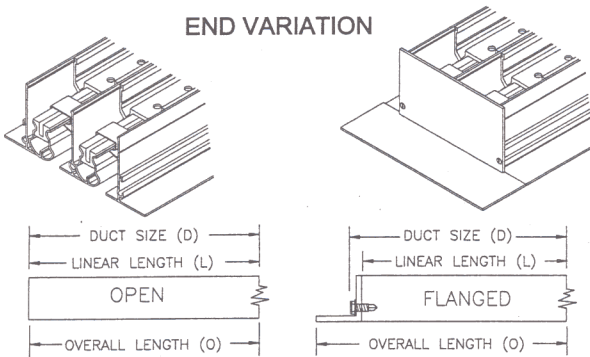


DUCT SIZE D (WIDTH)

	NUMBER OF SLOTS							
	1	2	3	4	5	6	7	8
S=1/2	2 1/4	3 1/2	4 3/4	6	7 1/4	8 1/2	9 3/4	11
S=3/4	2 1/2	4	5 1/2	7	8 1/2	10	11 1/2	13
S=1	2 3/4	4 1/2	6 1/4	8	9 3/4	11 1/2	13 1/4	15

DONCO MODEL DP AND SDP DISTRIBUTION PLENUMS ARE AVAILABLE FOR ALL TYPES OF LINEAR SLOT APPLICATIONS.

END VARIATION



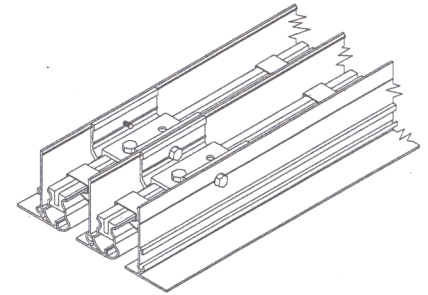
LENGTH DIMENSIONS

OPEN-OPEN (OO)	FLANGE-OPEN (FO)	FLANGE-FLANGE (FF)
D = L	D = L + 1/8	D = L + 1/4
O = L	O = L + 1 1/8	O = L + 2 1/4

STANDARD INDUSTRY TOLERANCES APPLY. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

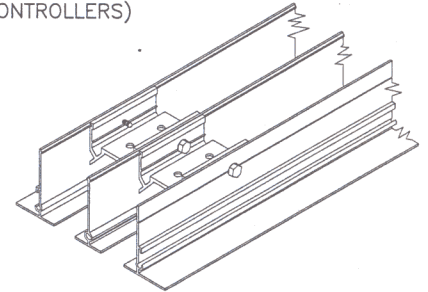
SUPPLY

- HPL-50 1/2" SLOT
- HPL-75 3/4" SLOT
- HPL-10 1" SLOT

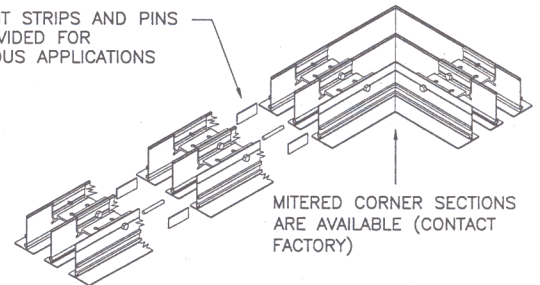


RETURN (NO PATTERN CONTROLLERS)

- HPLR-50 1/2" SLOT
- HPLR-75 3/4" SLOT
- HPLR-10 1" SLOT



ALIGNMENT STRIPS AND PINS ARE PROVIDED FOR CONTINUOUS APPLICATIONS



FEATURES

- CONSTRUCTED OF EXTRUDED ALUMINUM WITH WHITE FINISH ON FACE AND BLACK PATTERN CONTROLLERS.
- STEEL PATTERN CONTROLLERS PROVIDE 180 DEGREE THROW ADJUSTMENT ALONG WITH VOLUME CONTROL.
- PATTERN CONTROLLERS FURNISHED IN MULTIPLE SECTIONS FOR DIFFUSERS LONGER THAN 3 FT. MAXIMUM CONTROLLER LENGTH IS 4 FT.
- STANDARD DESIGN CAN BE FIELD CUT WHEN SPECIFIC LENGTH REQUIREMENTS ARE NOT KNOWN AHEAD OF TIME.
- SECTIONS UP TO 8 FT. LENGTH CAN BE PROVIDED. THIS RESULTS IN FEWER JOINTS ON LONG RUNS.

OPTIONS (SPECIFY)

- HPL-50 SUPPLY
- HPL-75 SUPPLY
- HPL-10 SUPPLY
- ___ LINEAR LENGTH (L)
- ___ NUMBER OF SLOTS (1-8)
- ___ END VARIATION (OO)(FO)(FF)
- HPLR-50 RETURN
- HPLR-75 RETURN
- HPLR-10 RETURN

JOB NAME: _____
 LOCATION: _____
 ARCHITECT: _____
 ENGINEER: _____
 CONTRACTOR: _____

HPL SERIES LINEAR SLOT DIFFUSERS SURFACE MOUNT (SM)

DRAWN BY
MDP

DATE
6-5-2000

DWG. NO.
HPL-SM

P.O. BOX 250
 ALBION, IOWA 50005
 PH. (641) 488-2211 FAX (641) 488-2796
 www.raymon-hvac.com



RAYMON
DONCO AIR DISTRIBUTION EQUIPMENT

HPL PERFORMANCE DATA

1 SLOT SUPPLY

1/2" SLOT	CFM/Ft.	8	17	26	35	44	53
	Ps	.008	.042	.112	.213	.338	.506
NC	(20)	20	31	39	46	50	
Throw	4	9	14	19	23	28	
3/4" SLOT	CFM/Ft.	10	20	30	40	50	60
	Ps	.004	.039	.075	.127	.190	.277
NC	(20)	20	25	32	37	45	
Throw	3	10	18	25	30	34	
1" SLOT	CFM/Ft.	10	22	34	46	58	70
	Ps	.002	.020	.048	.094	.147	.214
NC	(20)	20	28	34	40		
Throw	6	12	20	26	30	35	

2 SLOT SUPPLY

1/2" SLOT	CFM/Ft.	12	30	48	66	84	102
	Ps	.007	.036	.102	.205	.330	.498
NC	(20)	21	32	41	48	53	
Throw	6	14	21	25	28	31	
3/4" SLOT	CFM/Ft.	20	40	60	80	100	120
	Ps	.007	.037	.083	.147	.230	.325
NC	(20)	20	26	33	41	48	
Throw	10	23	31	38	43	47	
1" SLOT	CFM/Ft.	20	44	68	92	116	140
	Ps	.004	.029	.072	.127	.206	.293
NC	(20)	20	23	33	39	45	
Throw	10	23	33	41	46	51	

3 SLOT SUPPLY

1/2" SLOT	CFM/Ft.	20	45	70	95	120	145
	Ps	.007	.042	.107	.204	.320	.470
NC	(20)	22	34	42	48	54	
Throw	9	16	22	27	31	33	
3/4" SLOT	CFM/Ft.	25	55	85	115	145	175
	Ps	.007	.031	.080	.143	.232	.338
NC	(20)	20	25	34	43	49	
Throw	10	25	34	42	48	51	
1" SLOT	CFM/Ft.	30	65	100	135	170	205
	Ps	.006	.032	.077	.138	.216	.322
NC	(20)	20	24	35	43	48	
Throw	12	25	35	42	48	52	

4 SLOT SUPPLY

1/2" SLOT	CFM/Ft.	25	59	93	127	161	195
	Ps	.012	.056	.125	.231	.359	.528
NC	(20)	23	35	44	50	54	
Throw	10	18	24	29	33	36	
3/4" SLOT	CFM/Ft.	30	65	100	135	170	205
	Ps	.007	.032	.068	.127	.195	.292
NC	(20)	20	23	33	41	48	
Throw	13	28	39	47	53	56	
1" SLOT	CFM/Ft.	40	80	120	160	200	240
	Ps	.008	.032	.072	.126	.198	.281
NC	(20)	20	23	35	44	49	
Throw	14	23	31	40	48	55	

HPLR RETURN PERFORMANCE DATA

1/2" SLOT	1 SLOT					2 SLOT					3 SLOT					4 SLOT								
	CFM/Ft.	10	20	30	40	50	CFM/Ft.	20	40	60	80	100	CFM/Ft.	30	60	90	120	150	CFM/Ft.	40	80	120	160	200
-Ps	.010	.051	.120	.205	.300	-Ps	.010	.051	.120	.205	.300	-Ps	.010	.051	.120	.205	.300	-Ps	.010	.051	.120	.205	.300	
NC	(20)	(20)	23	31	36	NC	(20)	(20)	25	33	38	NC	(20)	(20)	27	35	40	NC	(20)	20	28	36	41	
3/4" SLOT	CFM/Ft.	10	25	40	55	70	CFM/Ft.	20	50	80	110	140	CFM/Ft.	30	75	120	165	210	CFM/Ft.	40	100	160	220	280
	Ps	.008	.045	.115	.222	.270	-Ps	.008	.045	.115	.222	.270	-Ps	.008	.045	.115	.222	.270	-Ps	.008	.045	.115	.222	.270
NC	(20)	(20)	23	32	38	NC	(20)	(20)	25	34	40	NC	(20)	(20)	27	36	42	NC	(20)	(20)	28	37	43	
1" SLOT	CFM/Ft.	20	35	50	65	80	CFM/Ft.	40	70	100	130	160	CFM/Ft.	60	105	150	195	240	CFM/Ft.	80	140	200	260	320
	-Ps	.020	.058	.116	.202	.302	-Ps	.020	.058	.116	.202	.302	-Ps	.020	.058	.116	.202	.302	-Ps	.020	.058	.116	.202	.302
NC	(20)	(20)	23	29	35	NC	(20)	(20)	25	31	37	NC	(20)	(20)	27	33	39	NC	(20)	(20)	28	34	40	

LENGTH FACTORS

Diffuser Length	2	4	6	8	10
Throw Multiplier	.9	1.0	1.1	1.2	1.3
NC Adjustment	-3	0	+2	+3	+4

Ps - Static pressure in inches of water with horizontal throw.

Throw - Horizontal distances in feet to a terminal velocity of 50 FPM. Throw values are based on 1-way pattern. For divided air flow, refer to data from another model based on proportional CFM and number of slots throwing one direction.

NC - Noise criteria based on 10 db room absorption.

Throw and NC values are based on 4 ft. lengths. For other lengths, refer to length factors above.

Performance data is based on tests performed at DONCO AIR PRODUCTS and Intertek Testing Services (formerly ETL) in accordance with ASHRAE 70-1991. Copy of report J97028260 is available upon request.