



















# Linear Diffusers Slot Type WB-LC-2

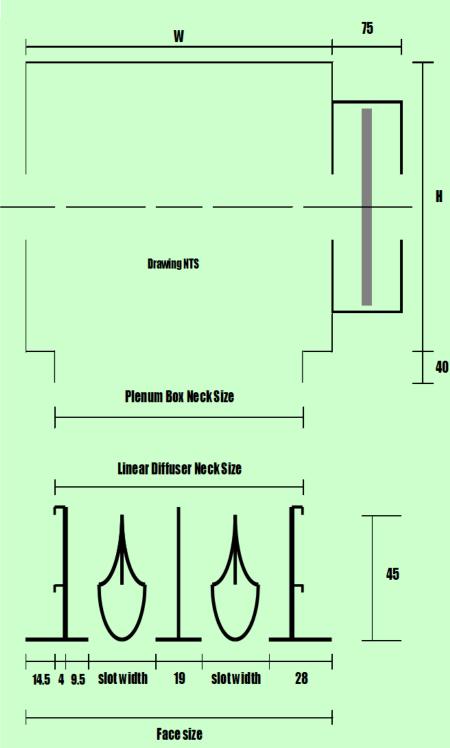


an ISO 9001 company

an ISO certified company

## Linear Slot Diffusers Model : WB - LC - 2 (20mm Slot ) & (25mm Slot )

## **Dimensional Data**





### Plenum Box model WB-LB

Electro galvanised ar GI construction, internally insulated with elastomeric PE foam.(glasswood is optional, if glaswwood is used, W=neck+40mm). Comes optional with wingnut controlled single bladed damper at collar.

Standard unless specified otherwise

#### Dimensions

20mmSlot	1	2	3	4	5	6
W	77	117	157	197	237	277
Neck	52	92	132	172	212	252
Neck*	62	102	142	182	222	262
Neck* - c/w 5r	nm foc	am on	each	side		
25mmSlot	1	2	3	4	5	6
W	82	127	173	217	262	307
Neck	57	102	148	192	237	282
Neck*	67	112	158	202	247	292
Neck* - c/w 5r	nm foc	am on	each	side		
Collar Size	150	200	250	300	350	400
H (round collar)	180	230	280	330	380	430
(ov al collar)	150	200	250	300	350	400

#### **CMH Range**

Collar Dia	150	200	250	300	350	400
from	100	201	401	601	851	1101
To	200	400	600	850	1100	1500

## Linear Diffuser Model WB-LC2

Constructed of extruded aluminum coated in an epoxy/polyester powder coat finish.

Comes in 1 to 6 slots as a standard.

Maximum 1 piece constructed length is 3600mm

#### Dimensions

20mmSlot	1	2	3	4	5	6
Face	75	115	155	195	235	275
Neck	47	87	127	167	207	247

25mmSlot	1	2	3	4	5	6
Face	80	125	171	215	260	305
Neck	52	97	143	187	232	277

#### Notes

Recommended ceiling opening size are ; >with plenum box - Neck add 10-12mm >without plenum box - Neck add 8mm Dimensional tolerances is about 1.5mm

# **Linear Slot Diffuser**

**PERFORMANCE DATA** 

## Model:WB-LC/2 (20mm Slot)



air distribution products

#### Horizontal Throw Characteristics

1200 x 1 slot	Vel (m/s)	0.63	1.26	1.89	2.52	3.15	3.78	4.40	5.03
Q (L/s	5)	15.04	30.08	45.12	60,16	75.20	90.24	105.28	120.32
Q (cm	h)	54.37	108.74	163.10	217.47	271.84	326.21	380.58	434.94
Q (cfn	n)	32.00	64.00	96.00	128.00	160.00	192.00	224.00	256.00
SP(pa	a)	4.00	6.67	13.33	21.33	33.33	46.67	66.67	86.67
NC		na	na	18.75	27.50	36.25	42.50	48.75	53.75
Coiling mount	T (Horizontal)	0.53	1.24	3.00	4.06	4.41	4.76	5.47	6.00
Ceiling mount	Drop	0.19	0.43	1.05	1.42	1.54	1.67	1.91	2.10
1200 x 2 slots	Vel (m/s)	0.63	1.26	1.89	2.52	3.15	3.78	4.40	5.03
Q (L/s	5)	30.08	60.16	90.24	120.32	150.40	180.48	210.56	240.64
Q (cm	h)	108.74	217.47	326.21	434.94	543.68	652.42	761.15	869.89
Q (cfn	n )	64.00	128.00	192.00	256.00	320.00	384.00	448.00	512.00
SP(pa	a)	4.00	6.67	13.33	21.33	33.33	46.67	66.67	86.67
NC		na	na	22.50	33.75	42.50	48.75	55.00	60.00
Ceiling mount	T (Horizontal)	0.88	2.29	4.41	5.47	6.18	6.88	9.00	9.71
Centing mount	Drop	0.31	0.80	1.54	1.91	2.16	2.41	3.15	3.40
1200 x 3 slots	Vel (m/s)	0.63	1.26	1.89	2.52	3.15	3.78	4.40	5.03
Q (L/s	5)	45.12	90.24	135.36	180.48	225.60	270.72	315.84	360.96
Q (cm	h)	163.10	326.21	489.31	652.42	815.52	978.62	1141.73	1304.83
Q (cfn		96.00	192.00	288.00	384.00	480.00	576.00	672.00	768.00
SP(pa	a)	4.00	6.67	13.33	21.33	33.33	46.67	66.67	86.67
NC		na	na	26.25	37.50	46.25	52.50	58.75	63.75
Ceiling mount	T (Horizontal)	1.24	3.71	5.82	6.88	7.59	8.29	9.18	9.88
oo ling mount	Drop	0.44	1.30	2.04	2.41	2.66	2.90	3.21	3.46
1200 x 4 slots	Vel (m/s)	0.63	1.26	1.89	2.52	3.15	3.78	4.40	5.03
Q (L/s	5)	60.16	120.32	180.48	240.64	300.80	360.96	421.12	481.28
Q (cm	h)	217.47	434.94	652.42	869.89	1087.36	1304.83	1522.30	1739.78
Q (cfn	n )	128.00	256.00	384.00	512.00	640.00	768.00	896.00	1024.00
SP(pa	a)	4.00	6.67	13.33	21.33	33.33	46.67	66.67	86.67
NC		na	12.50	28.75	40.00	48.75	55.00	61.25	66.25
Ceiling mount	T (Horizontal)	1.41	4.24	6.35	8.29	9.18	10.24	10.94	11.65
ooning mount	Drop	0.49	1.48	2.22	2.90	3.21	3.58	3.83	4.08

#### Vertical Throw Characteristics

1200 x 1 slot	Vel (m/s)	0.79	1.42	2.05	2.67	3.30	3.93	4.56	5.19
Q (L/s	5)	18.80	33.84	48.88	63.92	78.96	94.00	109.04	124.08
Q (cm	h)	67.96	122.33	176.70	231.06	285.43	339.80	394.17	448.54
Q (cfn	•	40.00	72.00	104.00	136.00	168.00	200.00	232.00	264.00
SP(pa	a)	4.00	6.67	13.33	21.33	33.33	46.67	66.67	86.67
NC		na	na	18.75	27.50	35.00	42.50	47.50	51.25
Ceiling mount	T (vertical)	0.71	2.82	4.24	4.94	5.29	6.00	6.35	6.71
centing mount	Spread	0.25	0.99	1.48	1.73	1.85	2.10	2.22	2.35
1200 x 2 slots	Vel (m/s)	0.71	1.30	1.97	2.60	3.26	3.81	4.48	5.11
Q (L/s		33.84	62.04	94.00	124.08	156.04	182.36	214.32	244.40
Q (cm	h)	122.33	224.27	339.80	448.54	564.07	659.21	774.74	883.48
Q (cfn		72.00	132.00	200.00	264.00	332.00	388.00	456.00	520.00
SP(pa	a)	4.00	6.67	13.33	21.33	33.33	46.67	66.67	86.67
NC		na	na	22.50	31.25	41.25	47.50	52.50	57.50
Ceiling mount	T (vertical)	1.76	3.88	5.65	6.71	7.76	8.47	9.18	9.88
Cening mount	Spread	0.62	1.36	1.98	2.35	2.72	2.96	3.21	3.46
1200 x 3 slots	Vel (m/s)	0.68	1.31	1.94	2.57	3.20	3.83	4.46	5.09
Q (L/s	5)	48.88	94.00	139.12	184.24	229.36	274.48	319.60	364.72
Q (cm	h)	176.70	339.80	502.90	666.01	829.11	992.22	1155.32	1318.42
Q (cfn	n )	104.00	200.00	296.00	392.00	488.00	584.00	680.00	776.00
SP(pa	a)	4.00	6.67	13.33	21.33	33.33	46.67	66.67	86.67
NC		na	na	23.75	35.00	43.75	51.25	56.25	61.25
Ceiling mount	T (vertical)	2.47	4.59	7.06	8.47	9.53	10.24	11.29	12.00
coming mount	Spread	0.86	1.61	2.47	2.96	3.34	3.58	3.95	4.20
1200 x 4 slots	Vel (m/s)	0.67	1.30	1.93	2.56	3.19	3.81	4.44	5.07
Q (L/s	5)	63.92	124.08	184.24	244.40	304.56	364.72	424.88	485.04
Q (cm	h)	231.06	448.54	666.01	883.48	1100.95	1318.42	1535.90	1753.37
Q (cfn		136.00	264.00	392.00	520.00	648.00	776.00	904.00	1032.00
SP(pa	a)	4.00	6.67	13.33	21.33	33.33	46.67	66.67	86.67
NC		na	na	26.25	36.25	46.25	52.50	58.75	62.50
Ceiling mount	T (vertical)	2.82	5.29	8.12	9.88	10.94	12.00	12.71	13.76
centry mount	Spread	0.99	1.85	2.84	3.46	3.83	4.20	4.45	4.82
Notes									

#### Notes

Units are tested with air plenum boxes in accordance to Air Diffusion Council ADC Code 1062: GRD-84 and ASHRAE 70-72. Throw in meters with a cooling temperature differential of 20 deg F at a terminal velocity of 100fpm, 0.5 m/s. With Deflectors fully opened in one direction. Pressures in Pascal. NC values based on room absorption of 10dB re10 to pow er 12 w atts.

## **Linear Slot Diffuser**

### **PERFORMANCE DATA**

## Model:WB-LC/2 (25mm Slot)



air distribution products

### Horizontal Throw Characteristics

1200 x 1 slot		0.50	1.01	1.51	2.01	2.52	3.02	3.52	4.03
	Vel (m/s)		30.08						
Q (L/s	·	15.04		45.12	60.16	75.20	90.24	105.28	120.32
Q (cmh)		54.37	108.74	163.10	217.47	271.84	326.21	380.58	434.94
Q (cfm	·	32.00	64.00	96.00	128.00	160.00	192.00	224.00	256.00
SP(pa	)	3.00	5.00	10.00	16.00	25.00	35.00	50.00	65.00
NC		na	na	15.00	22.00	29.00	34.00	39.00	43.00
Ceiling mount	۲ (Horizontal)	0.45	1.05	2.55	3.45	3.75	4.05	4.65	5.10
	Drop	0.16	0.37	0.89	1.21	1.31	1.42	1.63	1.79
1200 x 2 slots	Vel (m/s)	0.50	1.01	1.51	2.01	2.52	3.02	3.52	4.03
Q (L/s	)	30.08	60.16	90.24	120.32	150.40	180.48	210.56	240.64
Q (cmh	n)	108.74	217.47	326.21	434.94	543.68	652.42	761.15	869.89
Q (cfm	)	64.00	128.00	192.00	256.00	320.00	384.00	448.00	512.00
SP(pa	)	3.00	5.00	10.00	16.00	25.00	35.00	50.00	65.00
NC		na	na	18.00	27.00	34.00	39.00	44.00	48.00
Ceiling mount	Г (Horizontal)	0.75	1.95	3.75	4.65	5.25	5.85	7.65	8.25
Centry mount	Drop	0.26	0.68	1.31	1.63	1.84	2.05	2.68	2.89
1200 x 3 slots	Vel (m/s)	0.50	1.01	1.51	2.01	2.52	3.02	3.52	4.03
Q (L/s	)	45.12	90.24	135.36	180.48	225.60	270.72	315.84	360.96
Q (cmh	h)	163.10	326.21	489.31	652.42	815.52	978.62	1141.73	1304.83
Q (cfm	)	96.00	192.00	288.00	384.00	480.00	576.00	672.00	768.00
SP(pa	)	3.00	5.00	10.00	16.00	25.00	35.00	50.00	65.00
NC		na	na	21.00	30.00	37.00	42.00	47.00	51.00
Ceiling mount	۲ (Horizontal)	1.05	3.15	4.95	5.85	6.45	7.05	7.80	8.40
coming mount	Drop	0.37	1.10	1.73	2.05	2.26	2.47	2.73	2.94
4000 - 4 - 1 - 4 -			1.10		0.00	0.75	3,30	3.84	4.39
1200 X 4 SIOTS	Vel (m/s)	0.55	1.10	1.65	2.20	2.75	3.30	3.84	4.39
1200 x 4 slots Q (L/s	Vel (m/s) )	0.55 60.16	<b>1.10</b> 120.32	<b>1.65</b> 180.48	2.20 240.64	<b>2.75</b> 300.80	360.96	421.12	481.28
	)								
Q (L/s	) h)	60.16	120.32	180.48	240.64	300.80	360.96	421.12	481.28
Q (L/s Q (cmh	) n)	60.16 217.47	120.32 434.94	180.48 652.42	240.64 869.89	300.80 1087.36	360.96 1304.83	421.12 1522.30	481.28 1739.78
Q (L/s Q (cmh Q (cfm	) n)	60.16 217.47 128.00	120.32 434.94 256.00	180.48 652.42 384.00	240.64 869.89 512.00	300.80 1087.36 640.00	360.96 1304.83 768.00	421.12 1522.30 896.00	481.28 1739.78 1024.00
Q (L/s <i>Q (cmh</i> Q (cfm SP(pa	) n)	60.16 217.47 128.00	120.32 434.94 256.00 5.00	180.48 652.42 384.00 10.00	240.64 869.89 512.00 16.00	300.80 1087.36 640.00 25.00	360.96 1304.83 768.00 35.00	421.12 1522.30 896.00 50.00	481.28 1739.78 1024.00 65.00

#### **Vertical Throw Characteristics**

1200 x 1 slot	Vel (m/s)	0.63	1.13	1.64	2.14	2.64	3.15	3.65	4.15
Q (L/s	S)	18.80	33.84	48.88	63.92	78.96	94.00	109.04	124.08
Q (cm	h)	67.96	122.33	176.70	231.06	285.43	339.80	394.17	448.54
Q (cfn	n )	40.00	72.00	104.00	136.00	168.00	200.00	232.00	264.00
SP(pa	a)	3.00	5.00	10.00	16.00	25.00	35.00	50.00	65.00
NC		na	na	15.00	22.00	28.00	34.00	38.00	41.00
Ceiling mount	T (vertical)	0.60	2.40	3.60	4.20	4.50	5.10	5.40	5.70
Cening mount	Spread	0.21	0.84	1.26	1.47	1.58	1.79	1.89	2.00
1200 x 2 slots	Vel (m/s)	0.57	1.04	1.57	2.08	2.61	3.05	3.59	4.09
Q (L/s		33.84	62.04	94.00	124.08	156.04	182.36	214.32	244.40
Q (cm	h)	122.33	224.27	339.80	448.54	564.07	659.21	774.74	883.48
Q (cfn	n )	72.00	132.00	200.00	264.00	332.00	388.00	456.00	520.00
SP(pa	a)	3.00	5.00	10.00	16.00	25.00	35.00	50.00	65.00
NC		na	na	18.00	25.00	33.00	38.00	42.00	46.00
Ceiling mount	T (vertical)	1.50	3.30	4.80	5.70	6.60	7.20	7.80	8.40
Centry mount	Spread	0.53	1.16	1.68	2.00	2.31	2.52	2.73	2.94
1200 x 3 slots	Vel(m/s)	0.55	1.05	1.55	2.06	2.56	3.06	3.57	4.07
Q (L/s	s)	48.88	94.00	139.12	184.24	229.36	274.48	319.60	364.72
Q (cm	h)	176.70	339.80	502.90	666.01	829.11	992.22	1155.32	1318.42
Q (cfn	n )	104.00	200.00	296.00	392.00	488.00	584.00	680.00	776.00
SP(pa	a)	3.00	5.00	10.00	16.00	25.00	35.00	50.00	65.00
NC		na	na	19.00	28.00	35.00	41.00	45.00	49.00
Ceiling mount	T (vertical)	2.10	3.90	6.00	7.20	8.10	8.70	9.60	10.20
Cening mount	Spread	0.74	1.37	2.10	2.52	2.84	3.05	3.36	3.57
1200 x 4 slots	Vel (m/s)	0.58	1.13	1.68	2.23	2.78	3.33	3.88	4.43
Q (L/s	s)	63.92	124.08	184.24	244.40	304.56	364.72	424.88	485.04
Q (cm	h)	231.06	448.54	666.01	883.48	1100.95	1318.42	1535.90	1753.37
Q (cfn	n)	136.00	264.00	392.00	520.00	648.00	776.00	904.00	1032.00
SP(pa	a)	3.00	5.00	10.00	16.00	25.00	35.00	50.00	65.00
NC		na	na	21.00	29.00	37.00	42.00	47.00	50.00
Ceiling mount	T (vertical)	2.40	4.50	6.90	8.40	9.30	10.20	10.80	11.70
cening mount	Spread	0.84	1.58	2.42	2.94	3.26	3.57	3.78	4.10
Notes									
NC corrections		Length	1500	1800	2100	2400	3000	1	

Correction +1 +2 +3 For return applications, add 4 to NC and multiply 0.8 for negative static pressure.

+5

+4

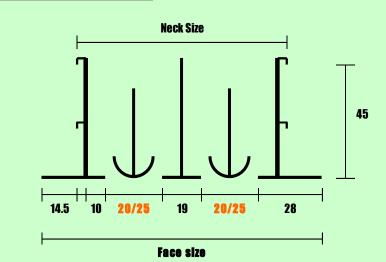
To meet every conceivable design

WB Air air distribution products

### **Linear Slot Diffusers**

Model : WB - LA - 1 (20 / 25 mm Slot) For return purpose

#### **Dimensional Data**



20mmSlot	<b>1slot</b>	2 slots	3 slots	4 slots
Face	76	116	155	195
Neck	48	88	129	169

25mmSlot	<b>1slot</b>	2 slots	<b>3 slots</b>	4 slots
Face	81	125	171	216
Neck	52	97	143	187

NB Air

#### Notes

Recommended opening size are;

with plenum box - Neck add 12-15mm

without plenum box - Neck add 8-12mm

Dimensional tolerances is about 1.5mm

All dimensions to the nearest mm

distribution products

Model : WB - LC - 2

rev Dec 03

To meet every conceivable design

# an ISO certified company Linear Slot Diffuser

