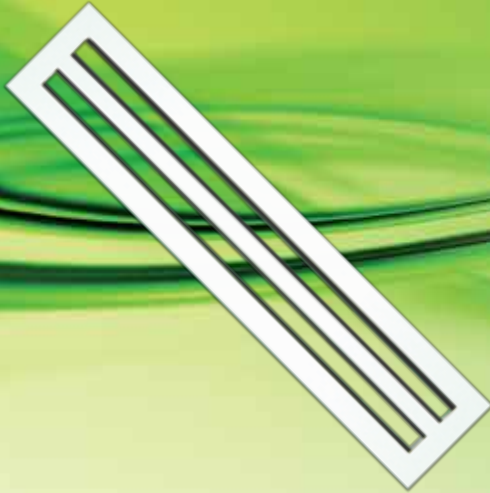


SLLS Linear Ceiling Diffuser



Materials

SLLS extruded aluminium A6063.

Surface Finish

- Baked white powder coat as standard.
- Pattern controller vane is black anodised.

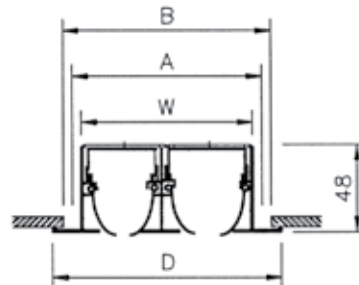
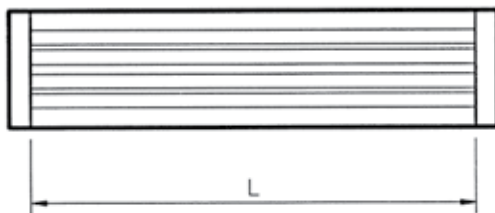
Standard size *Unit : mm*

600 (2') / 1200 (4') / 3000 (10')

Features

- SLLS linear ceiling diffuser can be used in T-bar ceiling suspension system & other ceiling types as well.
- The diffuser incorporates curved blade pattern controller for adjustable of air distribution.
- Model SLLS-1 has a 90° mitred corner connection & model SLLS-2 is 45°.
- Linear diffusers that come with plenum boxes are known as SLLSB.
- Approximately 38% free area when blades are fully open.
- Available in 1 slot to 6 slots.

SLLS Construction Illustrations *Unit : mm*

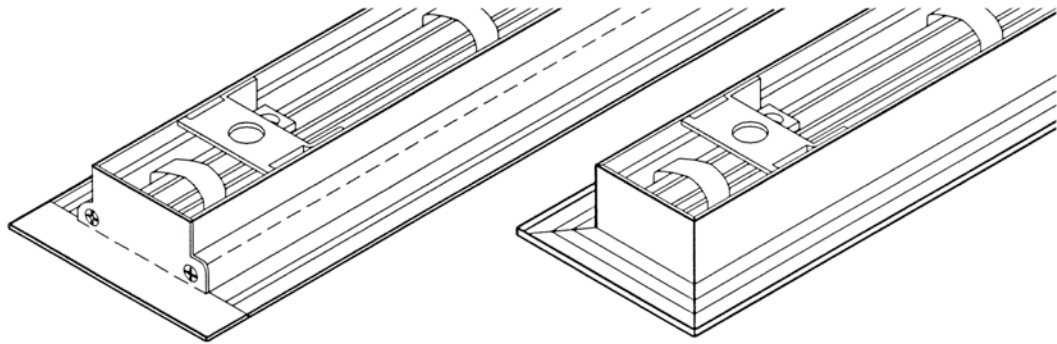


SLLS Physical Dimension *Unit : mm*

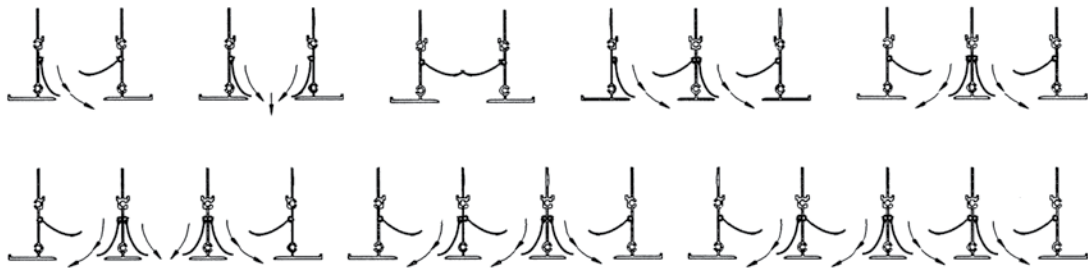
Model	Materials	Thickness		W Neck Size	A Duct Size	B Ceiling Size	D Face Size	Order Key
		Frame	Blade					
1 Slot	Extruded Aluminium A6063	1.0	0.8	48	L+10 W+10	L+15 W+15	L+37 W+37	SLLS - 1 - 2 - 100 Model No. of Slot Length 90°
2 Slot				93				
3 Slot				138				
4 Slot				183				
5 Slot				228				
6 Slot				273				

SLLS Linear Ceiling Diffuser

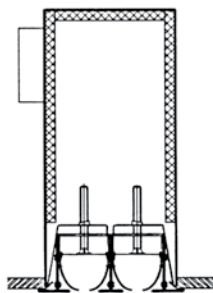
SLLS Frame Details



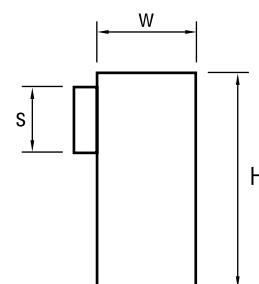
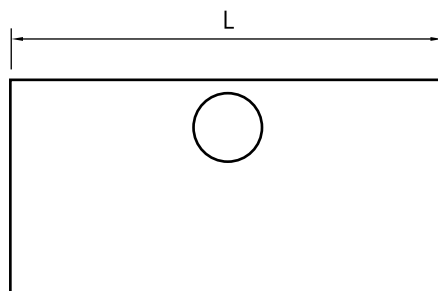
SLLS Air Distribution Adjustment



Model SLLSB: SLLS Linear Diffuser c/w Plenum Box



- Plenum box is constructed of 0.5mm SPGC galvanized steel.
- Two types of insulation are available.
- External insulation: 25mm X 24kg/m² fiberglass wrapped with fiber reinforced aluminium foil.(Optional)
- Internal insulation: 5mm thick PE foam.



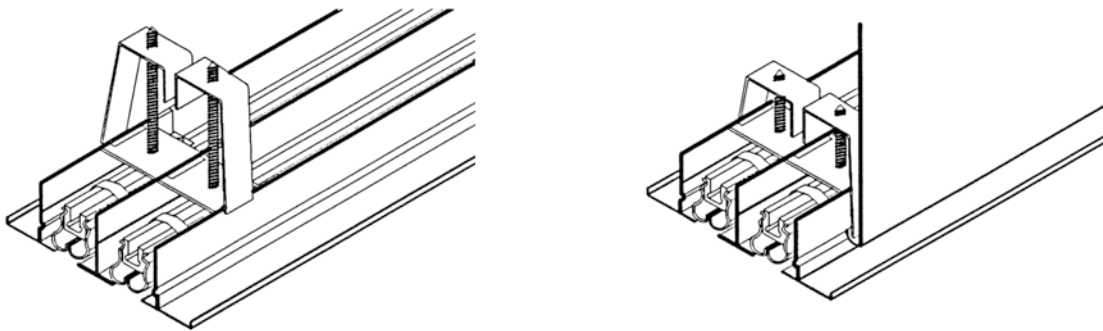
SLLS Linear Ceiling Diffuser

SLLS Physical Dimension *Unit : mm*

L Length of Plenum Box	W Width of Plenum Box	H Height of Plenum Box	S Inlet Size
Face length of slot diffuser	Neck width of slot diffuser W + 20	230	100ø ~ 300ø oval shape

Model SLLSB: SLLS Linear Diffuser c/w Plenum Box

- SLL linear supply air diffusers have a U-type fastening hook & an adjustable screws for installing the diffuser onto the plenum box.
- For installation, one can install the diffuser together with the plenum box. However for some application, one can fix the box onto the ceiling, then use the U-type fastening hook to fasten the diffuser to the plenum box. Use the screw to adjust the face flush with the ceiling.



SLLS (Supply) Performance Data

No. of Slot	Neck Vel. (m/s)	0.2	0.4	0.7	0.9	1.1	1.3	1.6	1.8	2.0	
	St. Press. (mmAq)	0.1	0.4	0.8	1.4	2.3	3.3	4.4	5.8	7.3	
1 Slot	CMH	48	88	136	177	224	272	313	360	401	
	NC	-	-	13	20	26	30	34	37	40	
	Throw (m)	H	0.6-1.8	1.8-4.9	3.7-6.4	4.9-7.3	5.8-8.2	6.4-8.8	6.7-9.8	7.3-10.4	7.6-11.0
		W	0.6	2.4	3.7	4.3	4.6	5.2	5.5	5.8	6.1
2 Slot	CMH	88	177	272	360	449	537	626	721	809	
	NC	-	-	16	23	29	33	37	40	43	
	Throw (m)	H	0.9-3.7	3.7-7.0	5.2-8.8	7.0-10.7	8.2-11.6	8.8-12.8	9.8-13.7	10.4-14.6	11.0-15.5
		W	1.5	3.4	4.9	5.8	6.7	7.3	7.9	8.5	9.1
3 Slot	CMH	136	272	401	537	673	809	945	1074	1210	
	NC	-	-	18	25	30	35	39	42	45	
	Throw (m)	H	1.5-4.3	4.3-8.5	6.4-11.0	8.5-12.8	10.1-14.0	11.0-15.5	11.9-16.8	12.8-18.0	13.4-18.9
		W	2.1	4	6.1	7.3	8.2	8.8	9.8	10.4	11
4 Slot	CMH	177	360	537	721	898	1074	1258	1435	1618	
	NC	-	-	19	26	32	36	40	43	46	
	Throw (m)	H	1.8-4.9	4.9-10.1	7.3-12.8	10.1-14.6	11.6-16.5	12.8-18.0	13.7-19.2	14.6-20.7	15.5-21.9
		W	2.4	4.6	7	8.5	9.4	10.4	11	11.9	12.8
5 Slot	CMH	224	449	673	898	1122	1346	1571	1795	2020	
	NC	-	-	20	27	33	37	41	44	47	
	Throw (m)	H	2.4-5.5	5.5-11.0	8.2-14.0	11.0-16.5	12.8-18.3	14.0-20.1	15.2-21.6	16.5-23.2	17.4-24.4
		W	2.7	5.2	7.6	9.4	10.4	11.6	12.5	13.1	13.7
6 Slot	CMH	272	537	809	1074	1346	1618	1884	2156	2421	
	NC	-	12	22	29	34	38	42	45	48	
	Throw (m)	H	3.0-6.1	6.1-12.2	9.1-15.5	12.2-18.0	14.0-20.1	15.5-21.9	16.8-23.8	18.0-25.3	18.9-26.8
		W	2.7	5.8	8.5	10.4	11.6	12.5	13.7	14.6	15.5

SLLS Linear Ceiling Diffuser

SLLS (Return) Performance Data

No. of Slots	Neg. SP (mmAq)	0.5	1.0	1.8	2.8	4.1	5.5	7.2	11.5
1 Slot	CMH	135	200	270	340	405	475	545	680
	NC	-	-	-	24	29	33	37	43
2 Slot	CMH	270	405	545	680	815	950	1085	1360
	NC	-	-	22	27	31	36	40	46
3 Slot	CMH	405	610	815	1020	1225	1425	1630	2040
	NC	-	-	24	29	34	38	42	48
4 Slot	CMH	545	815	1085	1360	1630	1905	2175	2720
	NC	-	-	24	30	35	39	43	49
5 Slot	CMH	680	1020	1360	1700	2040	2380	2720	3400
	NC	-	-	22	28	33	37	41	47
6 Slot	CMH	1224	1224	1632	2040	2448	2856	3264	4080
	NC	-	-	23	29	34	38	42	48

- Throw values are based on an entire section 1.2 meter long.
- Vertical throw is based on terminal velocity of 0.25m/s.
- Horizontal throw is based on terminal velocities of 0.5m/s – 0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.
- Performance data are obtain based on isothermal condition.

NC correction for various diffuser lengths

Length (m)	0.6	1.2	2.4
Supply NC	-3	0	+3
Return NC	-3	0	+5

Throw correction multiplier for length

Length	0.6	1.2	2.4
Throw Correction	0.7	1.0	1.5

SLLS Linear Ceiling Diffuser

SLLSB Performance Data

No. of Slot	Round Inlet (mm)	Length (mm)								
1	150	600	CMH	51	77	102	128	153	179	204
			Tot. Press (mmAq)	0.4	0.8	1.4	2.3	3.3	4.5	5.8
			NC	-	-	26	31	35	38	42
			Throw (m)	1.8 - 3.4	2.7 - 4.0	3.4 - 4.6	3.7 - 5.2	4.0 - 5.5	4.3 - 6.1	4.6 - 6.4
		1200	CMH	77	116	153	192	230	269	306
			Tot. Press (mmAq)	0.3	0.8	1.4	2.1	3.1	4.2	5.5
			NC	-	-	25	30	35	38	41
			Throw (m)	0.6 - 2.7	2.1 - 4.0	2.7 - 4.6	3.7 - 5.2	4.0 - 5.5	4.3 - 6.1	4.6 - 6.4
1	200	600	CMH	51	82	111	141	170	201	230
			Tot. Press (mmAq)	0.4	1.0	1.9	3.1	4.5	6.3	8.3
			NC	-	-	24	29	34	38	41
			Throw (m)	1.5 - 4.0	3.0 - 6.4	4.3 - 8.2	5.5 - 9.4	6.7-10.4	7.9-11.3	8.5-11.9
		1200	CMH	85	128	170	213	255	298	340
			Tot. Press (mmAq)	0.3	0.6	1.1	1.7	2.5	3.4	4.4
			NC	-	-	23	29	33	37	40
			Throw (m)	1.5 - 3.0	2.4 - 4.0	3.0 - 4.9	3.7 - 5.2	4.0 - 5.8	4.6 - 6.4	4.9 - 6.7
1	250	600	CMH	68	94	119	145	170	196	221
			Tot. Press (mmAq)	1.1	2.1	3.4	5.1	7.0	9.2	11.8
			NC	-	-	23	27	31	35	37
			Throw (m)	2.4 - 5.2	3.7 - 7.3	4.6 - 8.5	5.8 - 9.4	6.7-10.4	7.6-11.0	8.2-11.9
		1200	CMH	102	153	204	255	306	357	408
			Tot. Press (mmAq)	0.4	0.8	1.4	2.2	3.2	4.4	5.7
			NC	-	-	25	30	35	38	41
			Throw (m)	1.8 - 3.7	2.7 - 4.6	3.7 - 5.2	4.0 - 5.8	4.6 - 6.4	4.9 - 7.0	5.2 - 7.3
1	300	1200	CMH	119	179	238	298	357	417	476
			Tot. Press (mmAq)	0.6	1.4	2.5	3.9	5.7	7.7	10.1
			NC	-	-	25	30	34	38	41
			Throw (m)	2.1 - 4.0	3.4 - 4.9	4.0 - 5.5	4.6 - 6.4	4.9 - 7.0	5.2 - 7.3	5.5 - 7.9

- Throw is based on terminal velocities of 0.5m/s – 0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.
- Performance data are obtain based on isothermal condition.

SLLS Linear Ceiling Diffuser

SLLSB Performance Data

No. of Slot	Round Inlet (mm)	Length (mm)								
2	150	600	CMH	68	107	145	184	221	260	298
			Tot. Press (mmAq)	0.3	0.7	1.2	2.0	2.8	3.9	5.2
			NC	-	-	24	29	34	37	41
			Throw (m)	0.9 - 3.7	2.1 - 5.8	4.0 - 7.9	5.2-10.1	6.1-11.9	7.0-12.8	8.2-13.7
		1200	CMH	119	175	230	286	340	396	451
			Tot. Press (mmAq)	0.5	1.1	2.0	3.0	4.3	5.9	7.6
			NC	-	-	24	29	33	37	40
			Throw (m)	0.9 - 3.0	2.1 - 4.6	3.0 - 5.5	3.7 - 6.1	4.6 - 6.7	5.2 - 7.3	5.5 - 7.6
2	200	600	CMH	85	128	170	213	255	298	340
			Tot. Press (mmAq)	0.3	0.6	1.1	1.7	2.5	3.4	4.4
			NC	-	-	23	29	33	37	40
			Throw (m)	1.5 - 4.6	3.0 - 7.0	4.6 - 9.4	5.8-11.6	7.0-12.8	8.2-13.7	9.4-14.6
		1200	CMH	153	213	272	332	391	451	510
			Tot. Press (mmAq)	0.5	0.9	1.4	2.1	2.9	3.9	4.9
			NC	-	-	24	29	33	36	39
			Throw (m)	1.5 - 4.0	2.7 - 5.2	3.7 - 6.1	4.3 - 6.7	5.2 - 7.3	8.5 - 7.6	5.8 - 8.2
2	250	600	CMH	102	153	204	255	306	357	408
			Tot. Press (mmAq)	0.4	0.8	1.4	2.2	3.2	4.4	5.7
			NC	-	-	25	30	35	38	41
			Throw (m)	2.1 - 5.5	4.3 - 8.5	5.5-11.3	7.0- 12.8	8.5-14.0	9.8-14.9	11.3-16.2
		1200	CMH	170	247	323	400	476	553	629
			Tot. Press (mmAq)	0.4	0.8	1.4	2.1	2.9	4.0	5.2
			NC	-	-	25	30	34	38	41
			Throw (m)	2.1 - 4.6	3.4 - 5.8	4.3 - 6.4	5.2 - 6.4	5.5 - 7.9	6.1 - 8.5	6.4 - 9.1
2	300	1200	CMH	204	289	374	459	544	459	714
			Tot. Press (mmAq)	0.4	0.8	1.3	1.9	2.7	3.6	4.6
			NC	-	-	25	29	33	37	40
			Throw (m)	2.7 - 5.2	3.7 - 6.1	4.9 - 7.0	5.5 - 7.9	6.1 - 8.5	6.4 - 9.1	7.0 - 9.8

- Throw is based on terminal velocities of 0.5m/s – 0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.
- Performance data are obtain based on isothermal condition.

SLLS Linear Ceiling Diffuser

SLLSB Performance Data

No. of Slot	Round Inlet (mm)	Length (mm)								
3	150	600	CMH	102	145	187	230	272	315	357
			Tot. Press (mmAq)	0.5	0.9	1.5	2.3	3.2	4.3	5.6
			NC	-	-	23	28	32	36	39
			Throw (m)	1.2 - 4.6	2.1 - 6.4	3.7 - 8.5	5.2-10.4	6.1-12.2	7.0-14.0	7.9-14.9
		1200	CMH	162	221	281	340	400	459	519
			Tot. Press (mmAq)	0.8	1.6	2.6	3.8	5.2	6.9	8.8
			NC	-	-	22	27	31	34	37
			Throw (m)	0.9 - 3.4	1.8 - 4.6	3.0 - 6.1	3.7 - 6.7	4.3-7.3	4.9-7.9	5.5-8.2
3	200	600	CMH	85	153	221	289	357	425	493
			Tot. Press (mmAq)	0.2	0.6	1.2	2.0	3.1	4.3	5.8
			NC	-	-	23	30	35	39	42
			Throw (m)	0.9 - 3.0	2.4 - 7.0	4.9-10.1	6.4-13.1	7.9-14.9	9.4-16.5	11.0-17.7
		1200	CMH	170	264	357	451	544	638	731
			Tot. Press (mmAq)	0.4	1.0	1.9	3.0	4.4	6.1	8.0
			NC	-	-	24	30	34	38	41
			Throw (m)	1.2 - 3.7	2.7 - 5.5	3.7 - 7.0	4.9 - 7.6	5.8 - 8.5	6.4 - 9.1	7.0 - 9.8
3	250	600	CMH	136	196	255	315	374	434	493
			Tot. Press (mmAq)	0.3	0.7	1.2	1.8	2.5	3.4	4.4
			NC	-	-	24	29	33	37	40
			Throw (m)	1.8 - 6.1	4.0 - 8.8	5.8-11.6	7.0-14.0	8.5-15.2	9.8-16.5	11.0-17.1
		1200	CMH	204	303	400	498	595	694	791
			Tot. Press (mmAq)	0.4	0.9	1.5	2.3	3.4	4.5	5.9
			NC	-	-	24	29	34	37	40
			Throw (m)	1.5 - 4.3	3.4 - 6.4	4.3 - 7.3	5.2 - 8.2	6.4 - 8.8	6.7 - 9.4	7.3-10.4
3	300	1200	CMH	255	366	476	587	697	808	918
			Tot. Press (mmAq)	0.4	0.7	1.2	1.8	2.6	3.5	4.5
			NC	-	-	24	29	33	37	40
			Throw (m)	2.4 - 5.5	4.0 - 7.0	5.2 - 7.9	6.1 - 8.8	6.7 - 9.4	7.3-10.4	7.9 - 11.0

- Throw is based on terminal velocities of 0.5m/s – 0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.
- Performance data are obtain based on isothermal condition.

SLLS Linear Ceiling Diffuser

SLLSB Performance Data

No. of Slot	Round Inlet (mm)	Length (mm)								
4	150	600	CMH	119	175	230	286	340	396	451
			Tot. Press (mmAq)	0.5	1.1	1.9	3.1	4.4	5.9	7.7
			NC	-	-	24	29	33	37	40
			Throw (m)	0.9 ~ 4.0	2.2 ~ 6.8	3.7 ~ 8.9	5.6~11.1	6.8~13.6	7.7~15.7	8.9~17.0
		1200	CMH	196	277	357	439	519	600	680
			Tot. Press (mmAq)	1.1	2.3	3.9	5.8	8.2	10.9	14.0
			NC	-	-	24	29	33	36	39
			Throw (m)	0.9 ~ 3.7	1.9 ~ 5.2	3.1 ~ 6.8	4.0 ~ 7.7	4.9 ~ 8.3	5.6 ~ 8.9	6.5 ~ 9.6
4	200	600	CMH	102	179	255	332	408	485	561
			Tot. Press (mmAq)	0.2	0.6	1.2	2.0	3.2	4.5	5.9
			NC	-	-	22	29	34	38	41
			Throw (m)	0.6 ~ 2.8	2.2 ~ 7.1	4.6~10.2	6.5~13.0	8.0~16.0	9.6~17.6	11.1~19.1
		1200	CMH	238	340	442	544	646	748	850
			Tot. Press (mmAq)	0.7	1.5	2.7	4.0	5.5	7.4	9.7
			NC	-	-	25	30	34	37	40
			Throw (m)	1.5 ~ 4.3	2.8 ~ 6.5	4.0 ~ 7.7	4.9 ~ 8.6	6.2 ~ 9.3	7.1~10.2	7.7~10.8
4	250	600	CMH	170	243	315	388	459	532	604
			Tot. Press (mmAq)	0.4	0.7	1.3	1.9	2.8	3.7	4.8
			NC	-	-	25	30	34	37	40
			Throw (m)	1.9 ~ 4.9	3.7 ~ 7.1	4.6 ~ 8.0	5.6 ~ 8.9	6.8 ~ 9.9	7.4~10.5	8.0~11.1
		1200	CMH	272	383	493	604	714	825	935
			Tot. Press (mmAq)	0.6	1.1	1.9	3.0	4.1	5.5	7.0
			NC	-	-	25	30	34	37	40
			Throw (m)	1.9 ~ 4.9	3.7 ~ 7.1	4.6 ~ 8.0	5.6 ~ 8.9	6.8 ~ 9.9	7.4~10.5	8.0~11.1
4	300	1200	CMH	323	451	578	706	833	961	1088
			Tot. Press (mmAq)	0.4	0.8	1.3	2.0	2.9	3.8	4.8
			NC	-	-	24	29	33	36	39
			Throw (m)	2.5 ~ 6.2	4.3 ~ 7.7	5.2 ~ 8.9	6.5 ~ 9.9	7.4~10.5	8.0~11.4	8.6~12.0

- Throw is based on terminal velocities of 0.5m/s – 0.25m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10⁻¹² watts.
- Dash (-) in space indicates NC value less than 20.
- Performance data are obtain based on isothermal condition.