

MODEL (1)	INLET DIA. (1)	ONE SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED								Ak (7)
		CFM	40	50	60	80	100	120	140	
K-50-1 1/2" SLOT	6" DIA.	Ps - IWG	0.02	0.03	0.04	0.07	0.11	0.16	0.22	0.08
		NC (3)	<20	<20	<20	21	28	32	37	
		Throw (4)	5-7-11	6-8-12	7-9-14	9-11-16	10-13-18	12-15-20	14-17-22	
		CFM	50	60	80	100	120	140	160	
K-75-1 3/4" SLOT	8" DIA.	Ps - IWG	0.02	0.03	0.05	0.08	0.12	0.16	0.21	0.10
		NC (3)	<20	<20	<20	21	26	30	34	
		Throw (4)	5-7-12	7-9-13	8-10-15	10-13-18	11-15-20	13-17-23	15-19-26	
		CFM	80	105	130	155	180	205	240	
K-100-1 1" SLOT	8" DIA.	Ps - IWG	0.02	0.04	0.06	0.08	0.11	0.14	0.19	0.12
		NC (3)	<20	<20	<20	23	27	31	35	
		Throw (4)	7-10-15	11-14-17	13-16-21	15-18-25	16-19-27	17-20-29	18-22-31	
		CFM	100	135	170	200	235	270	300	
K-150-1 1-1/2" SLOT	10" OVAL	Ps - IWG	0.03	0.05	0.08	0.11	0.15	0.20	0.25	0.22
		NC (3)	<20	<20	<20	22	26	30	33	
		Throw (4)	9-13-17	13-16-22	15-19-26	16-20-29	17-22-32	18-24-33	20-25-34	
		CFM	30	40	50	60	80	100	120	

MODEL (1)	INLET DIA. (1)	ONE SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED								Ak (7)
		CFM	30	40	50	60	80	100	120	
KLP-50-1 1/2" SLOT	6" OVAL	Ps - IWG	0.02	0.03	0.04	0.06	0.11	0.17	0.25	0.08
		NC (3)	<20	<20	<20	<20	26	33	38	
		Throw (4)	3-5-9	5-7-11	6-8-12	7-9-14	9-11-16	10-13-18	12-15-20	
		CFM	40	50	60	80	100	120	150	
KLP-75-1 3/4" SLOT	8" OVAL	Ps - IWG	0.01	0.02	0.03	0.06	0.09	0.13	0.21	0.10
		NC (3)	<20	<20	<20	21	27	33	39	
		Throw (4)	4-6-10	5-7-12	7-9-13	8-10-15	10-13-18	11-15-20	14-18-25	
		CFM	60	85	110	135	160	190	220	
KLP-100-1 1" SLOT	8" OVAL	Ps - IWG	0.01	0.03	0.05	0.07	0.10	0.14	0.19	0.12
		NC (3)	<20	<20	<20	24	29	34	38	
		Throw (4)	5-8-12	7-10-15	12-14-18	13-16-21	15-18-25	16-19-27	18-21-30	
		CFM	80	110	140	170	200	230	260	
KLP-150-1 1-1/2" SLOT	8" OVAL	Ps - IWG	0.02	0.03	0.06	0.08	0.11	0.15	0.19	0.22
		NC (3)	<20	<20	22	28	33	37	40	
		Throw (4)	7-11-15	10-14-18	13-16-22	15-19-26	16-20-29	17-22-32	18-24-33	
		CFM	80	100	120	150	180	200	220	

MODEL (1)	INLET DIA. (1)	TWO SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM	80	100	120	150	180	200	220	
K-50-2 1/2" SLOT	8" DIA.	Ps - IWG	0.02	0.04	0.05	0.08	0.12	0.15	0.18	0.16
		NC (3)	<20	<20	<20	24	29	33	35	
		Throw (4)	7-10-17	8-11-18	9-13-20	12-15-22	14-18-25	15-19-27	16-21-29	
		CFM	100	130	160	190	220	250	280	
K-75-2 3/4" SLOT	8" DIA.	Ps - IWG	0.02	0.03	0.05	0.07	0.10	0.13	0.16	0.20
		NC (3)	<20	<20	20	24	29	32	35	
		Throw (4)	7-11-18	9-13-20	11-14-21	13-17-25	15-21-28	16-23-30	18-24-33	
		CFM	160	195	230	270	305	340	380	
K-100-2 1" SLOT	10" OVAL	Ps - IWG	0.03	0.05	0.07	0.09	0.11	0.14	0.18	0.24
		NC (3)	<20	<20	21	26	29	32	35	
		Throw (4)	9-14-21	14-18-23	16-20-25	18-21-28	20-24-33	22-26-36	23-27-38	
		CFM	200	250	300	350	400	450	500	
K-150-2 1-1/2" SLOT	10" OVAL	Ps - IWG	0.03	0.04	0.06	0.09	0.11	0.14	0.17	0.44
		NC (3)	<20	20	25	29	33	36	39	
		Throw (4)	11-17-24	17-21-30	19-23-33	22-26-36	23-28-39	24-30-43	25-31-45	
		CFM	200	250	300	350	400	450	500	

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MODEL (1)	INLET DIA. (1)	TWO SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM								
KLP-50-2 1/2" SLOT	8" OVAL	CFM	40	60	80	105	130	155	180	0.16
		Ps - IWG	0.01	0.03	0.05	0.09	0.14	0.20	0.26	
		NC (3)	<20	<20	<20	23	30	35	39	
		Throw (4)	3-6-11	4-7-12	7-10-16	8-11-16	10-13-20	12-16-23	14-18-25	
KLP-75-2 3/4" SLOT	8" OVAL	CFM	60	90	120	150	180	210	240	0.20
		Ps - IWG	0.02	0.04	0.07	0.10	0.15	0.20	0.27	
		NC (3)	<20	<20	21	27	33	37	41	
		Throw (4)	4-7-13	6-9-16	10-13-18	11-15-21	13-18-24	14-20-27	15-22-29	
KLP-100-2 1" SLOT	10" OVAL	CFM	100	140	180	220	265	310	360	0.24
		Ps - IWG	0.01	0.02	0.04	0.06	0.08	0.11	0.15	
		NC (3)	<20	<20	<20	24	29	34	38	
		Throw (4)	6-9-15	8-12-18	11-15-21	15-19-24	18-21-28	20-24-33	22-27-37	
KLP-150-2 1-1/2" SLOT	10" OVAL	CFM	150	195	240	285	330	375	420	0.44
		Ps - IWG	0.02	0.04	0.05	0.08	0.10	0.13	0.16	
		NC (3)	<20	<20	24	29	33	37	40	
		Throw (4)	9-15-20	11-17-24	15-21-26	18-22-31	21-26-36	22-27-38	23-29-41	

MODEL (1)	INLET DIA. (1)	THREE SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM								
K-50-3 1/2" SLOT	10" OVAL	CFM	120	140	160	200	235	270	300	0.24
		Ps - IWG	0.03	0.04	0.05	0.08	0.11	0.15	0.18	
		NC (3)	<20	<20	<20	24	28	32	35	
		Throw (4)	8-12-20	10-13-21	12-15-22	14-17-25	16-19-28	17-21-30	18-23-32	
K-75-3 3/4" SLOT	10" OVAL	CFM	140	185	230	275	320	370	420	0.30
		Ps - IWG	0.02	0.04	0.07	0.09	0.13	0.17	0.22	
		NC (3)	<20	<20	20	25	30	34	37	
		Throw (4)	8-12-20	12-15-22	13-17-26	16-19-28	17-22-31	19-25-34	22-29-40	
K-100-3 1" SLOT	10" OVAL	CFM	220	270	320	370	420	470	520	0.36
		Ps - IWG	0.03	0.05	0.07	0.10	0.12	0.15	0.19	
		NC (3)	<20	<20	24	28	31	34	37	
		Throw (4)	12-17-25	15-19-27	19-24-29	20-26-34	21-29-39	23-30-42	25-32-45	
K-150-3 1-1/2" SLOT	12" OVAL	CFM	270	350	430	510	590	670	750	0.66
		Ps - IWG	0.03	0.04	0.06	0.09	0.12	0.16	0.19	
		NC (3)	<20	<20	24	29	32	36	39	
		Throw (4)	14-19-28	18-25-33	22-30-40	25-32-45	27-35-50	29-37-53	30-38-56	

MODEL (1)	INLET DIA. (1)	FOUR SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM								
K-50-4 1/2" SLOT	10" OVAL	CFM	160	200	240	280	320	360	400	0.32
		Ps - IWG	0.03	0.04	0.06	0.08	0.10	0.13	0.16	
		NC (3)	<20	20	25	29	33	36	39	
		Throw (4)	10-14-22	12-16-24	14-18-28	16-20-30	18-22-32	19-24-34	20-26-36	
K-75-4 3/4" SLOT	12" OVAL	CFM	220	280	340	400	460	520	580	0.40
		Ps - IWG	0.03	0.05	0.08	0.11	0.15	0.19	0.23	
		NC (3)	<20	<20	23	28	32	35	38	
		Throw (4)	12-16-26	16-19-30	18-22-33	20-26-36	22-28-39	24-31-42	26-34-46	
K-100-4 1" SLOT	12" OVAL	CFM	300	380	460	540	620	700	780	0.48
		Ps - IWG	0.03	0.05	0.07	0.10	0.13	0.17	0.21	
		NC (3)	<20	<20	23	28	32	35	38	
		Throw (4)	13-20-30	19-24-35	22-28-39	26-33-45	30-36-50	32-37-52	33-39-54	
K-150-4 1-1/2" SLOT	14" OVAL	CFM	400	500	600	700	800	900	1000	0.88
		Ps - IWG	0.03	0.05	0.07	0.10	0.13	0.17	0.21	
		NC (3)	<20	20	25	30	33	37	39	
		Throw (4)	18-26-34	24-30-42	29-36-50	31-38-54	32-40-58	34-43-61	36-46-64	

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MODEL (1)	INLET DIA. (1)	SIX SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM	260	350	440	530	620	710	800	
K-75-6 3/4" SLOT	12" OVAL	Ps - IWG	0.02	0.04	0.07	0.10	0.13	0.17	0.22	0.60
		NC (3)	<20	<20	22	27	31	35	38	
		Throw (4)	12-17-29	17-22-31	19-25-35	22-28-40	24-32-44	27-36-50	31-41-56	
		CFM	400	500	600	700	800	900	1000	
K-100-6 1" SLOT	14" OVAL	Ps - IWG	0.04	0.06	0.08	0.11	0.15	0.18	0.23	0.72
		NC (3)	<20	<20	23	28	31	35	37	
		Throw (4)	18-23-33	21-27-37	24-32-42	24-35-46	30-39-51	34-42-57	38-45-63	
		CFM	500	650	800	950	1100	1250	1400	
K-150-6 1-1/2" SLOT	16" OVAL	Ps - IWG	0.03	0.06	0.09	0.12	0.17	0.21	0.27	1.32
		NC (3)	<20	<20	22	27	31	34	37	
		Throw (4)	22-29-39	25-34-44	32-40-54	35-43-60	39-46-65	41-49-71	42-54-78	
		CFM	500	650	800	950	1100	1250	1400	

MODEL (1)	INLET DIA. (1)	EIGHT SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM	350	475	600	725	850	975	1100	
K-75-8 3/4" SLOT	14" OVAL	Ps - IWG	0.02	0.04	0.06	0.09	0.13	0.17	0.21	0.80
		NC (3)	<20	<20	21	27	31	35	38	
		Throw (4)	15-20-30	20-25-37	24-31-44	27-36-51	31-42-57	33-45-61	36-48-65	
		CFM	500	650	800	950	1100	1250	1400	
K-100-8 1" SLOT	16" OVAL	Ps - IWG	0.03	0.05	0.07	0.10	0.13	0.17	0.22	0.96
		NC (3)	<20	<20	24	28	32	36	39	
		Throw (4)	21-26-38	25-32-42	31-39-48	34-43-58	37-47-65	42-51-71	45-53-76	
		CFM	600	800	1000	1200	1400	1600	1800	
K-150-8 1-1/2" SLOT	18" OVAL	Ps - IWG	0.03	0.05	0.07	0.11	0.14	0.19	0.24	1.76
		NC (3)	<20	<20	24	29	33	37	40	
		Throw (4)	22-29-42	25-37-48	33-44-60	40-49-67	42-54-73	45-56-82	47-61-88	
		CFM	600	800	1000	1200	1400	1600	1800	

MODEL (1)	INLET DIA. (1)	TEN SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM	400	550	700	850	1000	1150	1300	
K-75-10 3/4" SLOT	2-12" OVALS	Ps - IWG	0.02	0.03	0.05	0.08	0.11	0.15	0.19	1.00
		NC (3)	<20	<20	21	26	31	35	38	
		Throw (4)	17-22-34	20-26-39	23-30-44	27-35-50	32-41-57	34-45-62	38-50-68	
		CFM	600	800	1000	1200	1400	1600	1800	
K-100-10 1" SLOT	2-14" OVALS	Ps - IWG	0.02	0.04	0.07	0.10	0.14	0.18	0.22	1.20
		NC (3)	<20	<20	23	28	32	36	39	
		Throw (4)	20-26-40	22-32-47	34-44-54	39-48-63	44-53-72	47-57-79	50-60-85	
		CFM	700	950	1200	1450	1700	1950	2200	
K-150-10 1-1/2" SLOT	2-16" OVALS	Ps - IWG	0.02	0.04	0.07	0.10	0.14	0.18	0.23	2.20
		NC (3)	<20	<20	23	29	33	37	40	
		Throw (4)	21-29-43	28-41-54	35-47-63	42-53-72	47-60-82	50-63-92	52-66-96	
		CFM	700	950	1200	1450	1700	1950	2200	

MODEL (1)	ONE SLOT RETURN DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2)										Ak (7)
	NC	<20	<20	<20	<20	<20	22	26	29	32	
KR / KLPR-50-1 1/2" Slot	CFM	40	60	80	100	120	140	160	180	200	0.08
	-Ps	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	
KR / KLPR-75-1 3/4" Slot	CFM	60	90	120	150	180	210	240	270	300	0.10
	-Ps	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	
KR / KLPR-100-1 1" Slot	CFM	80	120	160	200	240	280	320	360	400	0.12
	-Ps	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	
KR / KLPR-150-1 1-1/2" Slot	CFM	120	180	240	300	360	420	480	540	600	0.17
	-Ps	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	

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MODEL (1)	TWO SLOT RETURN DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2)										Ak (7)
	NC	<20	<20	<20	<20	20	25	29	32	35	
KR / KLPR-50-2 1/2" Slot	CFM	80	120	160	200	240	280	320	360	400	0.16
	-Ps	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	
KR / KLPR-75-2 3/4" Slot	CFM	120	180	240	300	360	420	480	540	600	0.19
	-Ps	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	
KR / KLPR-100-2 1" Slot	CFM	160	240	320	400	480	560	640	720	800	0.23
	-Ps	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	
KR / KLPR-150-2 1-1/2" Slot	CFM	240	360	480	600	720	840	960	1080	1200	0.33
	-Ps	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	

NOTES:

- (1) Model and inlet size shown is basis of performance test.
Other inlet sizes available; see table on page 9 for suggested CFM range for available inlet sizes.
Model K and KLP return units available with collar or open side, and Model K returns up to 10 slots.
- (2) See table on page 9 for correction factors for other lengths.
- (3) NC levels based on insulated unit. Add 25% to NC level for uninsulated unit.
NC ratings based on power level (LW) re 10-12 power watts minus a 10 dB room attenuation allowance in all bands.
- (4) Throw data based on isothermal air.
Throw values are in feet, to terminal velocities Vt=150, 100, and 50 fpm respectively.
- (5) Throw distances shown are for one way pattern. For two way opposite, throw distance in each direction will be for the number of slots in the same direction with the associated air quantity in that direction.
- (6) Data determined in accordance with ANSI / ASHRAE Standard 70-1991.
- (7) $CFM = Ak \times V$ where V = average slot velocity using ALNOR JET tip 2220, 2220A, 6070, or equal.



SUGGESTED INLET SIZES

MODEL	SIZE	CFM RANGE	AVAILABLE STANDARD ON UNITS
K	4" RD.	TO 75 CFM	TO 3 SLOTS
K, KLP	5" RD.	TO 120 CFM	TO 3 SLOTS
K	6" RD.	TO 175 CFM	TO 6 SLOTS
KLP	6" SLOT	TO 175 CFM	TO 2 SLOTS
K	7" RD.	TO 250 CFM	TO 6 SLOTS
K	8" RD.	TO 350 CFM	TO 6 SLOTS
KLP	8" SLOT	TO 310 CFM	TO 2 SLOTS
K	10" OVAL	TO 600 CFM	TO 6 SLOTS
KLP	10" SLOT	TO 500 CFM	TO 2 SLOTS
K	12" OVAL	TO 870 CFM	2 SLOTS TO 10 SLOTS
K	14" SLOT	TO 1160 CFM	2 SLOTS TO 10 SLOTS
K	16" SLOT	TO 1740 CFM	2 SLOTS TO 10 SLOTS
K	18" SLOT	TO 2320 CFM	2 SLOTS TO 10 SLOTS

PERFORMANCE CORRECTION FACTORS FOR OTHER DIFFUSER LENGTHS

DIFFUSER LENGTH	24"	36"	48"	60"	72"
CFM CHANGE	X .5	X .75	X 1.0	X 1.25	X 1.5
NC CHANGE	-3	-1	0	+1	+2
THROW CHANGE	X .70	X .87	X 1.0	X 1.12	X 1.22



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