

MODEL (1)	INLET DIA. (1)	ONE SLOT SUPPLY DIFFUSER PERFORMANCE DATA								Ak (7)
		48" LONG UNIT (2) - INSULATED								
K-50-1 1/2" SLOT	6" Dia	CFM	40	50	60	80	100	120	140	0.08
		Ps - IWG	0.02	0.03	0.04	0.07	0.11	0.16	0.22	
		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	
K-75-1 3/4" SLOT	8" Dia	CFM	50	60	80	100	120	140	160	0.10
		Ps - IWG	0.02	0.03	0.05	0.08	0.12	0.16	0.21	
		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	
K-100-1 1" SLOT	8" Dia	CFM	80	105	130	155	180	205	240	0.12
		Ps - IWG	0.02	0.04	0.06	0.08	0.11	0.14	0.19	
		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	
K-150-1 1-1/2" SLOT	10 Oval	CFM	100	135	170	200	235	270	300	0.22
		Ps - IWG	0.03	0.05	0.08	0.11	0.15	0.20	0.25	
		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	

MODEL (1)	INLET DIA. (1)	ONE SLOT SUPPLY DIFFUSER PERFORMANCE DATA								Ak (7)
		48" LONG UNIT (2) - INSULATED								
KLP-50-1 1/2" SLOT	6" Oval	CFM	30	40	50	60	80	100	120	0.08
		Ps - IWG	0.02	0.03	0.04	0.06	0.11	0.17	0.25	
		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	
KLP-75-1 3/4" SLOT	8" Oval	CFM	40	50	60	80	100	120	150	0.10
		Ps - IWG	0.01	0.02	0.03	0.06	0.09	0.13	0.21	
		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	
KLP-100-1 1" SLOT	8" Oval	CFM	60	85	110	135	160	190	220	0.12
		Ps - IWG	0.01	0.03	0.05	0.07	0.10	0.14	0.19	
		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	
KLP-150-1 1-1/2" SLOT	8" Oval	CFM	80	110	140	170	200	230	260	0.22
		Ps - IWG	0.02	0.03	0.06	0.08	0.11	0.15	0.19	
		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	

MODEL (1)	INLET DIA. (1)	TWO SLOT SUPPLY DIFFUSER PERFORMANCE DATA								Ak (7)
		48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								
K-50-2 1/2" SLOT	8" Dia	CFM	80	100	120	150	180	200	220	0.16
		Ps - IWG	0.02	0.04	0.05	0.08	0.12	0.15	0.18	
		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	
K-75-2 3/4" SLOT	8" Dia	CFM	100	130	160	190	220	250	280	0.20
		Ps - IWG	0.02	0.03	0.05	0.07	0.10	0.13	0.16	
		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	
K-100-2 1" SLOT	10" Oval	CFM	160	195	230	270	305	340	380	0.24
		Ps - IWG	0.03	0.05	0.07	0.09	0.11	0.14	0.18	
		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	
K-150-2 1-1/2" SLOT	10" Oval	CFM	200	250	300	350	400	450	500	0.44
		Ps - IWG	0.03	0.04	0.06	0.09	0.11	0.14	0.17	
		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	

NOTE: SEE PAGE 4 FOR REFERENCES LISTED ABOVE.



KEES INCORPORATED
400 S. Industrial Dr. • P.O. Box L
Elkhart Lake, WI 53020

Phone: (920) 876-3391
Fax: (920) 876-3065
Website: www.kees.com

MODEL (1)	INLET DIA. (1)	TWO SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM	40	60	80	105	130	155	180	
KLP-50-2 1/2" SLOT	8" Oval	Ps - IWG	0.01	0.03	0.05	0.09	0.14	0.20	0.26	0.16
		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	
		CFM	60	90	120	150	180	210	240	
KLP-75-2 3/4" SLOT	8" Oval	Ps - IWG	0.02	0.04	0.07	0.10	0.15	0.20	0.27	0.20
		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	
		CFM	100	140	180	220	265	310	360	
KLP-100-2 1" SLOT	10" Oval	Ps - IWG	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.24
		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	
		CFM	150	195	240	285	330	375	420	
KLP-150-2 1-1/2" SLOT	10" Oval	Ps - IWG	0.02	0.04	0.05	0.08	0.10	0.13	0.16	0.44
		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	
		CFM	150	195	240	285	330	375	420	

MODEL (1)	INLET DIA. (1)	THREE SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM	120	140	160	200	235	270	300	
K-50-3 1/2" SLOT	10" Oval	Ps - IWG	0.03	0.04	0.05	0.08	0.11	0.15	0.18	0.24
		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	
		CFM	140	185	230	275	320	370	420	
K-75-3 3/4" SLOT	10" Oval	Ps - IWG	0.02	0.04	0.07	0.09	0.13	0.17	0.22	0.30
		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	
		CFM	220	270	320	370	420	470	520	
K-100-3 1" SLOT	10" Oval	Ps - IWG	0.03	0.05	0.07	0.10	0.12	0.15	0.19	0.36
		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	
		CFM	270	350	430	510	590	670	750	
K-150-3 1-1/2" SLOT	12" Oval	Ps - IWG	0.03	0.04	0.06	0.09	0.12	0.16	0.19	0.66
		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	
		CFM	270	350	430	510	590	670	750	

MODEL (1)	INLET DIA. (1)	FOUR SLOT SUPPLY DIFFUSER PERFORMANCE DATA 48" LONG UNIT (2) - INSULATED - ONE WAY THROW (5)								Ak (7)
		CFM	160	200	240	280	320	360	400	
K-50-4 1/2" SLOT	10" Oval	Ps - IWG	0.03	0.04	0.06	0.08	0.10	0.13	0.16	0.32
		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	
		CFM	220	280	340	400	460	520	580	
K-75-4 3/4" SLOT	12" Oval	Ps - IWG	0.03	0.05	0.08	0.11	0.15	0.19	0.23	0.40
		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	
		CFM	300	380	460	540	620	700	780	
K-100-4 1" SLOT	12" Oval	Ps - IWG	0.03	0.05	0.07	0.10	0.13	0.17	0.21	0.48
		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	
		CFM	400	500	600	700	800	900	1000	
K-150-4 1-1/2" SLOT	14" Oval	Ps - IWG	0.03	0.05	0.07	0.10	0.13	0.17	0.21	0.88
		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	
		CFM	400	500	600	700	800	900	1000	

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KEES INCORPORATED
400 S. Industrial Dr. • P.O. Box L
Elkhart Lake, WI 53020

Phone: (920) 876-3391
Fax: (920) 876-3065
Website: www.kees.com

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	27-35-46	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	0.132
		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	600	800	1000	1200	1400	1600	1800	

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	700	950	1200	1450	1700	1950	2200	

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" Oval	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" Oval	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" Oval	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	800	1100	1400	1700	2000	2300	2600	

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

NOTE: SEE PAGE 4 FOR REFERENCES LISTED ABOVE.



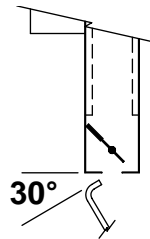
KEES INCORPORATED
400 S. Industrial Dr. • P.O. Box L
Elkhart Lake, WI 53020

Phone: (920) 876-3391
Fax: (920) 876-3065
Website: www.kees.com

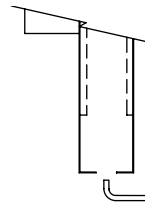
MODEL (1)	TWO SLOT RETURN DIFFUSER PERFORMANCE DATA										Ak (7)
	48" LONG UNIT (2)										
	NC (3)	<20	<20	<20	<20	20	25	29	32	35	
KR/KLPR-50-2 1/2" Slot	CFM	80	120	160	200	240	280	320	360	400	0.16
	-Ps, IWG	0.01	0.02	0.04	0.06	0.08	0.11	0.15	0.19	0.23	
KR/KLPR-75-2 3/4" Slot	CFM	120	180	240	300	360	420	480	540	600	0.19
	-Ps, IWG	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, IWG	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, IWG	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. Performance of Model FRK is similar. Other inlet sizes available; see table below for suggested CFM range for available inlet sizes. Return units available with open side and up to 10 slots.
- (2) See table below 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 an 10 db room attenuation allowance in all bands.
- (4) Throw data based on isothermal air. Throw values are in feet, to terminal velocities $V_t=150, 100, \text{ and } 50$ fpm respectively.
- (5) Throw distances shown are for one way pattern. For two way opposite, throw distance in each direction will be for the # 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.



SUPPLY



RETURN

SUGGESTED INLET SIZES			
MODEL	SIZE	CFM RANGE	AVAILABLE STANDARD ON UNITS
K, FRK	4" ROUND	TO 75 CFM	TO 3 SLOTS
K, KLP, FRK	5" ROUND	TO 120 CFM	TO 3 SLOTS
K, FRK	6" ROUND	TO 175 CFM	TO 6 (K), 2 (FRK) SLOTS
KLP	6" SLOT	TO 175 CFM	TO 2 SLOTS
K, FRK	7" ROUND	TO 250 CFM	TO 6 (K), 2 (FRK) SLOTS
K, FRK	8" ROUND	TO 350 CFM	TO 6 (K), 2 (FRK) SLOTS
KLP	8" SLOT	TO 310 CFM	TO 2 SLOTS
K, FRK	10" OVAL	TO 600 CFM	TO 6 (K), 2 (FRK) 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 2320CFM	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



KEES INCORPORATED
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Elkhart Lake, WI 53020

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