KLPS-D Discharge Sound Performance Data

KLPS-D, DISCHARGE SOUND DATA

Unit Size	Inlet Size	Primary Flow Rate		Fan Flow Rate		Min. Δ Ps		Fan Only							Fan + Primary @ 0.75" Δ Ps							Fan + Primary @ 1.5" Δ Ps						
								Octave Band Sound Power, Lw						Lp	Octave Band Sound Power, Lw						Lp	Octave Band Sound Power, Lw						Lp
		CFM	(L/s)	CFM	(L/s)	"WG	(Pa)	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
1	4	40	(19)	200	(94)	0.003	(0.74)	58	52	52	47	42	35	-	58	52	52	47	42	35	-	58	52	52	47	42	35	-
		75	(35)	325	(153)	0.010	(2.60)	64	60	59	56	53	48	-	64	60	59	56	53	48	-	64	60	59	56	53	48	-
		125	(59)	450	(212)	0.029	(7.21)	69	66	65	63	60	57	**24**	69	66	65	63	60	57	**26**	69	66	65	63	60	57	**26**
		175	(83)	575	(271)	0.057	(14.14)	72	70	69	67	65	64	**29**	72	70	69	67	65	64	**30**	72	70	69	67	65	64	**30**
		232	(109)	675	(319)	0.100	(24.85)	75	73	71	70	69	68	**33**	75	73	71	70	69	68	**33**	75	73	71	70	69	68	**33**
1	5	63	(30)	200	(94)	0.003	(0.75)	58	52	52	47	42	35	-	58	52	52	47	42	35	-	58	52	52	47	42	35	-
		150	(71)	325	(153)	0.017	(4.24)	64	60	59	56	53	48	-	64	60	59	56	53	48	-	64	60	59	56	53	48	-
		225	(106)	450	(212)	0.038	(9.55)	69	66	65	63	60	57	**24**	69	66	65	63	60	57	**26**	69	66	65	63	60	57	**26**
		300	(142)	575	(271)	0.068	(16.97)	72	70	69	67	65	64	**29**	72	70	69	67	65	64	**29**	72	70	69	67	65	64	**29**
		363	(171)	675	(319)	0.100	(24.85)	75	73	71	70	69	68	**33**	75	73	71	70	69	68	**33**	75	73	71	70	69	68	**33**
1	6	150	(71)	200	(94)	0.011	(2.76)	58	52	52	47	42	35	-	60	54	54	49	42	35	-	60	55	55	49	44	37	-
		225	(106)	325	(153)	0.025	(6.21)	64	60	59	56	53	48	-	66	60	61	56	53	48	**22**	67	62	62	58	54	48	**23**
		300	(142)	450	(212)	0.044	(11.04)	69	66	65	63	60	57	**24**	69	66	65	63	60	57	**24**	71	68	67	64	60	57	**27**
		375	(177)	575	(271)	0.069	(17.25)	72	70	69	67	65	64	**29**	72	70	69	67	65	64	**29**	74	72	71	69	65	64	**32**
		450	(212)	675	(319)	0.100	(24.85)	75	73	71	70	69	68	**33**	75	73	71	70	69	68	**33**	77	75	74	72	69	68	**35**
3	6	150	(71)	300	(142)	0.011	(2.76)	61	55	55	53	46	42	-	61	55	55	53	46	42	-	61	55	55	53	46	42	-
		225	(106)	450	(212)	0.025	(6.21)	66	60	59	58	53	49	-	66	60	59	58	53	49	-	66	60	59	58	53	49	-
		300	(142)	600	(283)	0.044	(11.04)	70	64	63	62	58	55	**24**	70	64	63	62	58	55	**24**	70	64	63	62	58	55	**24**
		375	(177)	750	(354)	0.069	(17.25)	73	67	65	65	62	59	**25**	73	67	65	65	62	59	**25**	73	67	65	65	62	59	**25**
		450	(212)	900	(425)	0.100	(24.85)	76	69	67	67	65	62	**28**	76	69	67	67	65	62	**28**	76	69	67	67	65	62	**28**
3	8	180	(85)	300	(142)	0.011	(2.76)	61	55	55	53	46	42	-	61	55	55	53	46	42	-	61	55	55	53	46	42	-
		270	(127)	450	(212)	0.025	(6.21)	66	60	59	58	53	49	-	66	60	59	58	53	49	-	66	60	59	58	53	49	-
		360	(170)	600	(283)	0.044	(11.04)	70	64	63	62	58	55	**24**	70	64	63	62	58	55	**24**	70	64	63	62	58	55	**24**
		450	(212)	750	(354)	0.069	(17.25)	73	67	65	65	62	59	**25**	73	67	65	65	62	59	**25**	73	67	65	65	62	59	**25**
		540	(255)	900	(425)	0.100	(24.85)	76	69	67	67	65	62	**28**	76	69	67	67	65	62	**28**	76	69	67	67	65	62	**28**
5	6	100	(47)	500	(236)	0.004	(0.99)	62	57	53	54	48	40	-	62	57	53	54	48	40	-	62	57	53	54	48	40	-
		200	(94)	700	(330)	0.016	(3.98)	67	61	58	59	54	48	-	67	61	58	59	54	48	-	67	61	58	59	54	48	-
		300	(142)	1000	(472)	0.036	(8.94)	71	66	64	65	60	56	**23**	71	66	64	65	60	56	**23**	71	66	64	65	60	56	**23**
		400	(189)	1300	(614)	0.064	(15.90)	75	70	68	69	65	62	**27**	75	70	68	69	65	62	**27**	75	70	68	69	65	62	**27**
		500	(236)	1500	(708)	0.100	(24.85)	77	72	70	71	68	66	**30**	77	72	70	71	68	66	**30**	77	72	70	71	68	66	**30**
5	8	300	(142)	500	(236)	0.011	(2.76)	62	57	53	54	48	40	-	62	57	53	54	48	40	-	62	58	53	54	48	40	-
		420	(198)	700	(330)	0.022	(5.41)	67	61	58	59	54	48	-	67	61	58	59	54	48	-	67	61	58	59	54	48	-
		600	(283)	1000	(472)	0.044	(11.04)	71	66	64	65	60	56	**23**	71	66	64	65	60	56	**23**	71	66	64	65	60	56	**23**
		780	(368)	1300	(614)	0.075	(18.66)	75	70	68	69	65	62	**27**	75	70	68	69	65	62	**27**	75	70	68	69	65	62	**27**
		900	(425)	1500	(708)	0.100	(24.85)	77	72	70	71	68	66	**30**	77	72	70	71	68	66	**30**	77	72	70	71	68	66	**30**
5	10	350	(165)	500	(236)	0.011	(2.76)	62	57	53	54	48	40	-	62	57	53	54	48	40	-	62	58	53	54	48	40	-
		490	(231)	700	(330)	0.022	(5.41)	67	61	58	59	54	48	-	67	61	58	59	54	48	-	67	61	58	59	54	48	-
		700	(330)	1000	(472)	0.044	(11.04)	71	66	64	65	60	56	**23**	71	66	64	65	60	56	**23**	71	66	64	65	60	56	**23**
		910	(429)	1300	(614)	0.075	(18.66)	75	70	68	69	65	62	**27**	75	70	68	69	65	62	**27**	75	70	68	69	65	62	**27**
		1050	(496)	1500	(708)	0.100	(24.85)	77	72	70	71	68	66	**30**	77	72	70	71	68	66	**30**	77	72	70	71	68	66	**30**

NOTES: Discharge sound power is the sound emitted from the unit discharge. All sound data is based on tests conducted in accordance with AHRI 880-11 and corrected for end reflection. ΔPs is the difference in static pressure from inlet to discharge. Sound power levels are in dB, re 10^{-12} Watts. NC application data is from AHRI Standard 885-08 Appendix E, as a function of flow rate shown. Dash indicates a NC is less than 20. See Krueger's selection software for specific sound data for optional liners; 1/2" dual density shown. See Krueger's Terminal Unit Engineering section for reductions and definitions.

KLPS-D Radiated Sound Performance Data

KLPS-D, RADIATED SOUND DATA

Unit Size	Inlet Size	Primary Flow Rate		Fan Flow Rate		Min. Δ Ps		Fan Only							Fan + Primary @ 0.75" Δ Ps							Fan + Primary @ 1.5" Δ Ps						
								Octave Band Sound Power, Lw						Lp	Octave Band Sound Power, Lw						Lp	Octave Band Sound Power, Lw						Lp
		CFM	(L/s)	CFM	(L/s)	"WG	(Pa)	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
1	4	40	(19)	200	(94)	0.003	(0.74)	47	44	44	40	31	23	18	47	44	44	40	31	23	18	47	44	44	40	31	23	18
		75	(35)	325	(153)	0.010	(2.60)	55	52	51	47	39	32	25	55	52	51	47	39	32	25	55	52	51	47	39	32	25
		125	(59)	450	(212)	0.029	(7.21)	60	57	55	51	45	37	30	60	57	55	51	45	37	30	60	57	55	51	45	37	30
		175	(83)	575	(271)	0.057	(14.14)	64	61	58	55	49	42	33	64	61	58	55	49	42	33	64	61	58	55	49	42	33
		232	(109)	675	(319)	0.100	(24.85)	66	63	60	57	51	45	35	66	63	60	57	51	45	35	66	63	60	57	51	45	35
1	5	63	(30)	200	(94)	0.003	(0.75)	47	44	44	40	31	23	18	47	44	44	40	31	23	18	47	44	44	40	31	23	18
		150	(71)	325	(153)	0.017	(4.24)	55	52	51	47	39	32	25	55	52	51	47	39	32	25	55	52	51	47	39	32	25
		225	(106)	450	(212)	0.038	(9.55)	60	57	55	51	45	37	30	60	57	55	51	45	37	30	62	60	57	51	45	37	32
		300	(142)	575	(271)	0.068	(16.97)	64	61	58	55	49	42	33	64	63	60	55	49	42	35	66	64	61	57	49	42	36
		363	(171)	675	(319)	0.100	(24.85)	66	63	60	57	51	45	35	66	66	63	57	51	45	38	69	68	64	60	53	47	39
1	6	150	(71)	200	(94)	0.011	(2.76)	47	44	44	40	31	23	18	49	47	46	40	31	23	20	50	49	47	40	31	25	21
		225	(106)	325	(153)	0.025	(6.21)	55	52	51	47	39	32	25	56	55	53	47	39	32	27	58	56	54	49	39	34	29
		300	(142)	450	(212)	0.044	(11.04)	60	57	55	51	45	37	30	62	60	57	51	45	37	32	63	62	59	54	47	40	34
		375	(177)	575	(271)	0.069	(17.25)	64	61	58	55	49	42	33	66	64	61	55	49	42	36	67	66	62	58	51	44	37
		450	(212)	675	(319)	0.100	(24.85)	66	63	60	57	51	45	35	68	67	63	59	51	45	39	70	69	65	61	54	47	40
3	6	150	(71)	300	(142)	0.011	(2.76)	61	56	57	57	50	40	31	61	56	57	57	50	40	31	61	56	57	57	50	40	31
		225	(106)	450	(212)	0.025	(6.21)	62	57	57	58	51	41	32	62	57	57	58	51	41	32	62	57	57	58	51	41	32
		300	(142)	600	(283)	0.044	(11.04)	62	57	58	58	52	42	33	64	59	60	60	52	43	35	65	60	60	60	52	44	35
		375	(177)	750	(354)	0.069	(17.25)	63	58	58	59	53	42	33	66	61	61	61	55	45	36	66	61	61	61	55	45	36
		450	(212)	900	(425)	0.100	(24.85)	63	58	59	59	53	42	34	67	62	62	62	56	46	37	67	62	62	63	56	47	38
3	8	180	(85)	300	(142)	0.011	(2.76)	61	56	57	57	50	40	31	61	56	57	57	50	40	31	61	56	57	57	50	40	31
		270	(127)	450	(212)	0.025	(6.21)	62	57	57	58	51	41	32	62	57	57	58	51	41	32	62	57	57	58	51	41	32
		360	(170)	600	(283)	0.044	(11.04)	62	57	58	58	52	42	33	64	59	60	58	52	44	35	65	60	60	60	54	44	35
		450	(212)	750	(354)	0.069	(17.25)	63	58	58	59	53	42	33	65	61	61	61	55	45	36	66	61	61	61	55	45	36
		540	(255)	900	(425)	0.100	(24.85)	63	58	59	59	53	42	34	67	62	62	62	56	47	37	67	62	62	62	57	47	37
5	6	100	(47)	500	(236)	0.004	(0.99)	58	53	52	48	40	28	26	58	53	52	48	40	31	26	58	53	52	48	40	32	26
		200	(94)	700	(330)	0.016	(3.98)	62	57	56	52	45	35	30	62	57	56	52	45	37	30	62	57	56	52	45	38	30
		300	(142)	900	(425)	0.036	(8.94)	64	60	59	55	49	40	34	64	60	59	55	49	40	34	64	60	59	55	49	42	34
		400	(189)	1100	(519)	0.064	(15.90)	66	62	61	58	52	44	36	66	62	61	58	52	44	36	66	62	61	58	52	44	36
		500	(236)	1300	(614)	0.100	(24.85)	68	64	63	60	54	48	38	68	64	63	60	54	48	38	68	64	63	60	54	48	38
5	8	300	(142)	500	(236)	0.013	(3.17)	58	53	52	48	40	28	26	58	53	52	48	40	35	26	58	55	52	48	40	36	26
		450	(212)	725	(342)	0.027	(6.66)	62	57	56	53	45	36	31	62	57	56	53	45	39	31	62	57	56	53	45	40	31
		570	(269)	950	(448)	0.046	(11.44)	65	60	59	56	50	41	34	65	60	59	56	50	41	34	65	60	59	56	50	44	34
		750	(354)	1200	(566)	0.070	(17.50)	67	63	62	59	53	46	37	67	63	62	59	53	46	37	67	63	62	59	53	46	37
		840	(396)	1400	(661)	0.100	(24.85)	69	65	64	61	56	49	39	69	65	64	61	56	49	39	69	65	64	61	56	49	39
5	10	350	(165)	500	(236)	0.011	(2.76)	58	53	52	48	40	28	26	58	53	52	48	40	34	26	58	54	52	48	40	35	26
		500	(236)	750	(354)	0.025	(6.21)	62	58	57	53	46	37	31	62	58	57	53	46	39	31	62	58	57	53	46	40	31
		700	(330)	1000	(472)	0.044	(11.04)	65	61	60	57	50	43	35	65	61	60	57	50	43	35	65	61	60	57	50	43	35
		875	(413)	1250	(590)	0.069	(17.25)	68	64	63	60	54	47	38	68	64	63	60	54	47	38	68	64	63	60	54	47	38
		1050	(496)	1500	(708)	0.100	(24.85)	70	66	65	62	57	51	40	70	66	65	62	57	51	40	70	66	65	62	57	51	40

NOTES: Radiated sound power is the sound transmitted through the casing walls. All sound data is based on tests conducted in accordance with AHRI 880-11. Sound power levels are in dB, re 10^{-12} Watts. ΔPs is the difference in static pressure from inlet to discharge. NC application data is from AHRI Standard 885-08 Appendix E. All data points listed are application ratings outside the scope of the Certification Program. See Krueger's selection program for specific sound data for optional liners; 1/2", dual density liner shown. Dash indicates a NC is less than 20. See Krueger's Terminal Unit Engineering section for reductions and definitions.