

AHRI Certified Performance Data for Parallel Fan Powered Terminal Units
KQFP, ULTRA QUIET PARALLEL FAN POWERED TERMINAL UNIT

Unit Size	Inlet Size	Primary CFM	Min. Ps	Discharge Data													
				Fan		Fan Only Sound Power, Lw							Primary Only @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7
2	6	400	0.200	400	355	69	66	62	57	53	50	64	58	52	45	42	39
3	8	700	0.200	700	400	73	71	67	62	60	59	69	63	54	49	44	40
4	10	1100	0.200	800	445	70	67	63	60	58	55	73	66	56	55	52	45
5	12	1600	0.200	1350	710	76	69	66	65	64	63	71	61	58	55	52	44
6	14	2100	0.200	1700	775	75	73	70	66	63	62	73	64	61	57	53	47
7	16	2800	0.200	1800	1300	78	74	70	70	68	67	80	71	66	64	60	53

Unit Size	Inlet Size	Primary CFM	Min. Ps	Radiated Data													
				Fan		Fan Only Sound Power, Lw							Primary Only @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7
2	6	400	0.200	400	355	71	67	60	60	53	49	56	51	46	40	38	36
3	8	700	0.200	700	400	70	67	62	58	52	52	64	57	50	45	40	35
4	10	1100	0.200	800	445	67	65	61	59	54	52	65	59	53	46	42	39
5	12	1600	0.200	1350	710	74	69	65	61	60	57	66	59	55	50	46	43
6	14	2100	0.200	1700	775	74	71	68	64	60	58	70	60	57	51	48	44
7	16	2800	0.200	1800	1300	79	76	68	66	62	59	75	68	64	62	59	57

QFV, PARALLEL FAN POWERED TERMINAL UNIT

Unit Size	Inlet Size	Primary CFM	Min. Ps	Discharge Data													
				Fan		Fan Only Sound Power, Lw							Primary Only @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7
2	6	400	0.200	330	190	72	62	60	58	54	53	81	75	67	63	59	53
3	8	700	0.200	505	230	72	62	60	58	55	54	81	78	70	67	61	55
4	10	1100	0.200	850	350	73	65	64	64	61	60	82	78	72	69	64	58
5	12	1600	0.200	1285	800	75	69	67	68	65	64	82	77	75	71	67	62
6	14	2100	0.200	1545	800	77	70	68	68	62	63	83	79	77	72	69	64
7	16	2800	0.200	1805	1030	78	69	70	71	67	66	84	81	79	76	72	67

Unit Size	Inlet Size	Primary CFM	Min. Ps	Radiated Data													
				Fan		Fan Only Sound Power, Lw							Primary Only @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7
2	6	400	0.200	330	190	71	65	60	58	52	47	67	60	57	50	45	38
3	8	700	0.200	505	230	71	65	60	57	52	47	70	64	63	56	51	46
4	10	1100	0.200	850	350	73	68	62	61	58	57	75	70	67	59	55	49
5	12	1600	0.200	1285	800	74	69	67	68	65	62	74	68	66	58	54	50
6	14	2100	0.200	1545	800	75	72	67	67	65	62	73	68	65	59	56	51
7	16	2800	0.200	1805	1030	75	73	68	67	64	63	81	79	77	71	68	65

KLPP, LOW PROFILE PARALLEL FAN POWERED TERMINAL UNIT

Unit Size	Inlet Size	Primary CFM	Min. Ps	Discharge Data													
				Fan		Fan Only Sound Power, Lw							Primary Only @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7
2	8	700	0.140	600	275	70	64	60	58	52	49	75	71	64	58	54	49
4	12	1575	0.766	800	400	70	65	66	62	55	55	80	106	97	107	121	137

Unit Size	Inlet Size	Primary CFM	Min. Ps	Radiated Data													
				Fan		Fan Only Sound Power, Lw							Primary Only @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7
2	8	700	0.140	600	275	67	63	61	57	50	40	71	66	60	55	52	48
4	12	1575	0.220	800	400	67	67	66	63	57	48	72	69	65	58	52	48

NOTE: See notes on previous page.



KQFP | Ultra Quiet, Parallel Flow

KQFP Discharge Sound Performance Data

KQFP, DISCHARGE SOUND DATA

FAN POWERED TERMINAL UNITS

Unit Size	Inlet Size	Flow Rate		Min. Δ Ps		Primary @ 0.5" Δ Ps							Primary @ 1.5" Δ Ps							Primary @ 2.0" Δ Ps									
						Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw							Lp
						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
2	6	100	(47)	0.013	(3.1)	36	32	27	23	23	24	-	40	33	28	25	28	32	-	41	33	29	26	29	34	-			
		200	(94)	0.050	(12.4)	48	45	39	33	30	28	-	52	46	40	35	35	35	-	53	46	40	36	36	37	-			
		300	(142)	0.113	(28.0)	55	52	46	39	34	30	-	59	53	47	41	39	37	-	60	53	47	42	40	39	-			
		400	(189)	0.200	(49.8)	60	58	50	43	36	31	-	64	58	52	45	42	39	-	65	59	52	46	43	41	21			
		500	(236)	0.313	(77.8)	64	62	54	46	39	33	-	68	63	55	48	44	40	25	69	63	56	49	45	42	26			
3	8	180	(85)	0.013	(3.3)	39	42	40	31	26	23	-	45	46	44	35	31	31	-	47	47	45	36	33	33	-			
		360	(170)	0.053	(13.2)	51	50	45	38	32	28	-	57	55	49	42	38	35	-	59	56	50	43	39	37	-			
		540	(255)	0.119	(29.6)	58	55	48	42	36	31	-	64	60	52	46	42	38	20	66	61	53	47	43	40	22			
		700	(330)	0.200	(49.8)	63	59	50	45	38	33	-	69	63	54	49	44	40	26	71	64	55	50	45	42	28			
		900	(425)	0.331	(82.3)	67	62	52	47	41	34	-	73	66	56	51	46	42	32	75	67	57	53	48	44	34			
4	10	290	(137)	0.014	(3.5)	44	42	39	33	26	20	-	48	46	42	37	30	26	-	49	47	43	38	32	27	-			
		580	(274)	0.056	(13.8)	57	52	46	43	37	30	-	61	56	49	47	41	36	-	62	57	50	48	43	37	-			
		870	(411)	0.125	(31.1)	65	58	50	48	43	36	-	69	62	53	52	48	42	26	70	63	54	53	49	43	27			
		1100	(519)	0.200	(49.8)	69	62	52	51	47	40	-	73	66	56	55	52	45	31	74	66	57	56	53	47	33			
		1450	(684)	0.348	(86.5)	74	66	55	55	51	44	26	78	70	59	59	56	50	38	79	71	60	60	57	51	39			
5	12	420	(198)	0.014	(3.4)	46	43	43	35	26	20	-	53	49	48	40	32	29	-	55	51	49	41	34	31	-			
		840	(396)	0.055	(13.7)	55	49	48	43	36	28	-	63	56	53	48	42	37	-	65	57	54	49	44	39	21			
		1260	(595)	0.124	(30.9)	60	53	51	47	42	33	-	68	59	56	53	48	42	25	70	61	57	54	50	44	28			
		1600	(755)	0.200	(49.8)	64	55	53	50	45	36	-	71	61	58	55	52	44	29	73	63	59	57	53	47	32			
		2100	(991)	0.345	(85.7)	67	58	55	53	49	39	-	75	64	60	58	55	48	34	77	66	61	60	57	50	36			
6	14	570	(269)	0.015	(3.7)	49	42	39	34	27	21	-	56	50	47	41	34	29	-	58	52	49	42	36	32	-			
		1140	(538)	0.059	(14.7)	58	50	47	43	37	31	-	65	57	54	49	44	39	21	67	59	56	51	46	41	23			
		1710	(807)	0.133	(33.0)	63	54	51	48	44	36	-	70	62	59	54	50	44	28	72	64	61	56	52	47	30			
		2100	(991)	0.200	(49.8)	66	56	53	51	47	39	-	73	64	61	57	53	47	31	75	66	63	59	55	49	34			
		2850	(1345)	0.368	(91.7)	70	60	57	54	51	43	21	77	67	64	61	58	51	36	79	69	66	62	60	53	39			
7	16	740	(349)	0.014	(3.5)	54	49	44	42	34	23	-	61	55	51	47	39	30	-	63	57	53	48	40	32	-			
		1480	(698)	0.056	(13.9)	64	57	52	51	45	35	-	71	64	59	56	50	42	28	73	65	61	57	51	44	31			
		2220	(1048)	0.126	(31.3)	69	62	56	56	52	42	20	77	68	63	61	57	49	36	79	70	65	63	58	50	38			
		2800	(1321)	0.200	(49.8)	73	65	59	59	55	46	24	80	71	66	64	60	53	40	82	73	68	66	62	54	43			
		3700	(1746)	0.349	(86.9)	77	68	62	63	60	50	30	84	75	69	68	65	57	45	86	76	71	69	66	59	48			

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. 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, as a function of flow rate shown. AHRI certification points are shown in bold, white font. For a complete list of AHRI certified data, see pages B2-4 and B2-5. All other 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.

K Q F P

KQFP Radiated Sound Performance Data
KQFP, RADIATED SOUND DATA

Unit Size	Inlet Size	Flow Rate		Min. Δ Ps		Primary @ 0.5" Δ Ps							Primary @ 1.5" Δ Ps							Primary @ 2.0" Δ Ps									
						Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw							Lp
						2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
2	6	100	(47)	0.013	(3.1)	35	30	26	23	23	23	-	39	33	30	27	29	31	-	40	34	31	29	31	33	-			
		200	(94)	0.050	(12.4)	43	39	34	29	27	25	-	48	42	38	34	34	33	-	49	43	39	35	35	35	-			
		300	(142)	0.113	(28.0)	48	44	39	33	30	27	-	52	47	43	38	36	35	-	54	48	44	39	38	37	-			
		400	(189)	0.200	(49.8)	51	47	42	36	31	28	-	56	51	46	40	38	36	-	57	51	47	42	40	38	21			
		500	(236)	0.313	(77.8)	54	50	44	38	33	28	-	59	53	48	42	39	36	22	60	54	49	44	41	38	24			
3	8	180	(85)	0.013	(3.3)	43	38	32	26	18	15	-	48	43	38	32	25	26	-	49	45	40	33	27	28	-			
		360	(170)	0.053	(13.2)	51	45	38	33	25	20	-	56	50	44	38	32	30	-	57	52	46	40	34	33	-			
		540	(255)	0.119	(29.6)	56	49	41	37	30	23	-	61	55	47	42	37	33	23	62	56	49	44	39	36	25			
		700	(330)	0.200	(49.8)	59	52	43	39	33	25	21	64	57	50	45	40	35	27	65	58	51	46	41	38	28			
		900	(425)	0.331	(82.3)	62	55	45	42	35	27	25	67	60	52	47	42	37	31	68	61	53	49	44	40	32			
4	10	290	(137)	0.014	(3.5)	43	37	33	25	19	16	-	48	42	38	30	24	24	-	50	43	39	32	26	26	-			
		580	(274)	0.056	(13.8)	51	45	41	33	28	24	-	57	51	46	39	33	32	-	58	52	47	40	35	34	21			
		870	(411)	0.125	(31.1)	56	50	45	38	33	29	-	62	56	50	44	39	37	24	63	57	51	45	40	39	26			
		1100	(519)	0.200	(49.8)	59	53	48	41	37	31	22	65	59	53	46	42	39	28	66	60	54	48	43	41	30			
		1450	(684)	0.348	(86.5)	62	57	51	44	40	34	26	68	62	56	50	45	42	32	70	64	57	51	47	44	34			
5	12	420	(198)	0.014	(3.4)	38	40	36	33	27	20	-	44	45	42	38	33	28	-	46	46	44	39	34	30	-			
		840	(396)	0.055	(13.7)	49	47	43	39	34	28	-	55	52	49	44	40	36	23	57	54	51	45	41	38	25			
		1260	(595)	0.124	(30.9)	56	52	47	43	38	32	21	62	57	53	48	43	40	27	63	58	54	49	45	42	29			
		1600	(755)	0.200	(49.8)	59	54	49	45	40	35	23	66	59	55	50	46	43	30	67	61	57	51	47	45	31			
		2100	(991)	0.345	(85.7)	64	57	51	47	43	38	27	70	62	58	52	48	46	35	71	64	59	53	50	48	37			
6	14	570	(269)	0.015	(3.7)	45	39	37	32	26	22	-	53	46	44	37	32	31	-	55	48	46	39	34	34	-			
		1140	(538)	0.059	(14.7)	54	47	44	39	34	28	-	62	54	51	45	41	38	25	64	56	53	46	42	40	27			
		1710	(807)	0.133	(33.0)	59	51	48	43	39	32	22	67	58	55	49	45	42	31	69	60	57	50	47	44	34			
		2100	(991)	0.200	(49.8)	62	53	50	45	41	34	25	70	60	57	51	48	44	34	72	62	59	53	50	46	37			
		2850	(1345)	0.368	(91.7)	66	56	53	48	45	37	30	74	63	60	54	51	47	40	76	65	62	56	53	49	42			
7	16	740	(349)	0.014	(3.5)	50	45	40	36	31	27	-	58	54	50	47	43	43	24	61	57	52	50	46	47	27			
		1480	(698)	0.056	(13.9)	58	52	48	44	39	34	22	67	61	57	55	52	50	32	69	64	60	58	55	54	35			
		2220	(1048)	0.126	(31.3)	63	57	52	48	44	38	26	72	66	62	59	57	54	37	74	68	64	62	60	58	40			
		2800	(1321)	0.200	(49.8)	66	59	55	51	47	41	29	75	68	64	62	59	57	41	77	71	67	65	63	61	44			
		3700	(1746)	0.349	(86.9)	69	62	58	54	51	44	34	78	71	67	65	63	59	45	80	74	70	68	66	64	48			

FAN POWERED TERMINAL UNITS

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. AHRI certification points are shown in bold, white font. For a complete list of AHRI certified data, see pages B2-4 and B2-5. All other 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.

KQFP | Ultra Quiet, Parallel Flow

KQFP Radiated & Discharge Sound Performance Data

KQFP, FAN ONLY RADIATED & DISCHARGE SOUND DATA

FAN POWERED TERMINAL UNITS

Unit Size	Flow Rate		Discharge Sound Power							Radiated Sound Power						
			Octave Band Sound Power, Lw							Lp	Octave Band Sound Power, Lw					
	CFM	(L/s)	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC
2	150	(71)	62	56	54	47	40	36	-	47	51	45	37	32	23	-
	240	(113)	65	61	58	52	46	43	21	59	59	52	48	42	36	28
	325	(153)	67	64	61	55	51	47	22	66	64	57	55	48	43	34
	400	(189)	69	66	62	57	53	50	24	71	67	60	60	53	49	38
	500	(236)	70	68	64	59	57	53	26	76	70	63	65	57	54	43
3	300	(142)	61	60	56	51	50	46	-	50	49	47	38	35	34	20
	450	(212)	67	65	61	57	55	52	23	59	58	54	48	43	43	29
	600	(283)	71	69	65	60	58	57	28	66	63	59	54	48	49	34
	700	(330)	73	71	67	62	60	59	30	70	67	62	58	52	52	38
	910	(429)	77	74	70	65	63	63	33	76	72	67	64	57	58	44
4	370	(175)	62	63	56	51	47	42	20	59	60	52	46	42	39	29
	550	(260)	66	65	60	56	53	49	23	63	62	57	52	48	46	32
	700	(330)	69	66	62	58	56	53	24	65	64	60	56	52	50	35
	800	(378)	70	67	63	60	58	55	24	67	65	61	59	54	52	36
	1100	(519)	74	68	66	64	62	60	26	70	67	65	64	58	58	40
5	500	(236)	64	59	55	52	51	46	-	64	60	56	47	45	40	30
	800	(378)	69	64	60	58	57	54	21	69	64	60	54	52	48	35
	1100	(519)	73	67	64	62	61	60	25	72	67	63	58	56	54	38
	1350	(637)	76	69	66	65	64	63	28	74	69	65	61	60	57	41
	1700	(802)	78	72	68	68	67	67	69	77	71	67	64	63	62	44
6	750	(354)	72	69	65	59	56	54	26	66	67	59	54	48	42	38
	1000	(472)	73	70	67	61	58	57	28	68	69	62	58	52	48	40
	1275	(602)	74	71	68	63	61	59	29	71	70	65	60	56	52	41
	1700	(802)	75	73	70	66	63	62	31	74	71	68	64	60	58	44
	1800	(849)	76	73	70	66	64	63	32	74	71	69	64	61	59	45
7	750	(354)	67	63	61	58	55	51	20	69	65	59	53	48	43	35
	1060	(500)	71	67	64	63	60	57	25	73	69	63	58	53	49	40
	1375	(649)	75	70	67	66	64	62	28	76	72	65	62	57	54	44
	1800	(849)	78	74	70	70	68	67	32	79	76	68	66	62	59	48
	2000	(944)	80	75	71	71	70	68	34	80	77	69	68	63	61	49

NOTES: Discharge sound power is the sound emitted from the unit discharge. Discharge sound power has been corrected for end reflection. 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, as a function of flow rate shown. AHRI certification points are shown in bold, white font. For a complete list of AHRI certified data, see pages B2-4 and B2-5. All other 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.

K Q F P