

AHRI Certified Performance Data for Series Fan Powered Terminal Units

KQFS, ULTRA QUIET SERIES FAN POWERED TERMINAL UNIT

Unit Size	Inlet Size	Primary CFM	Min. Ps	Fan		Discharge Data							Radiated Data											
						Fan Only Sound Power, Lw							Fan Only Sound Power, Lw							Fan + Primary @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	
2	6	400	0.100	450	190	73	63	56	49	43	45	67	55	52	48	43	35	68	57	55	51	47	44	
3	8	700	0.100	900	430	73	69	68	63	63	63	65	58	58	55	48	44	67	62	61	57	50	47	
4	10	1100	0.100	1200	480	73	71	70	66	63	64	62	57	59	50	44	41	69	63	63	55	51	49	
5	12	1600	0.100	1750	780	75	72	69	70	67	68	71	63	63	60	52	48	71	66	65	60	54	52	
6	14	2100	0.100	2400	1100	78	77	72	76	73	73	72	64	65	63	55	51	72	67	65	63	57	55	
7	16	2800	0.100	2800	1470	86	81	75	77	75	76	75	69	67	65	59	55	78	71	70	67	61	59	

QFC, SERIES FAN POWERED TERMINAL UNIT

Unit Size	Inlet Size	Primary CFM	Min. Ps	Fan		Discharge Data							Radiated Data											
						Fan Only Sound Power, Lw							Fan Only Sound Power, Lw							Fan + Primary @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	
2	6	400	0.100	450	200	65	65	66	62	58	57	65	64	57	54	46	42	70	71	65	57	52	49	
3	8	700	0.100	850	380	67	68	68	67	65	66	69	67	61	57	50	48	74	75	67	61	55	52	
4	10	1100	0.100	1350	555	67	67	70	68	65	61	69	67	61	57	53	49	75	73	67	61	56	53	
5	12	1600	0.100	2050	950	74	74	73	75	73	73	75	70	66	62	57	57	79	76	69	64	60	57	
6	14	2100	0.100	2400	1150	76	74	76	76	74	73	72	69	66	65	63	61	78	77	70	67	65	61	
7	16	2800	0.100	3600	2750	79	78	76	76	72	72	78	75	70	67	63	62	83	79	74	70	66	64	

KLPS, LOW PROFILE SERIES FAN POWERED TERMINAL UNIT

Unit Size	Inlet Size	Primary CFM	Min. Ps	Fan		Discharge Data							Radiated Data											
						Fan Only Sound Power, Lw							Fan Only Sound Power, Lw							Fan + Primary @ 1.5" Inlet Ps				
				CFM	Watts	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	
1	6	400	0.100	400	70	71	67	67	64	61	58	62	56	53	49	43	39	66	63	62	56	51	47	
2	8	700	0.100	700	150	79	76	76	75	74	73	70	64	60	57	51	48	75	73	70	64	59	55	
3	8	700	0.100	1000	460	78	69	67	67	65	63	69	60	58	56	51	44	69	62	60	56	51	46	
4	8x14	1400	0.100	1500	665	81	64	63	61	62	60	73	65	62	60	53	44	77	74	69	66	58	52	
5	12	1600	0.100	1700	680	78	73	72	73	70	69	68	60	57	53	48	42	68	65	61	56	55	58	

NOTES: All sound data is based on tests conducted in accordance with AHRI 880-11. ΔPs is the difference in static pressure from inlet to discharge. Sound power levels are in dB, re 10⁻¹² Watts. 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. NC application data is from AHRI Standard 885-08 Appendix E. 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. AHRI certification points are shown in bold white text in the sound performance data section for each of the corresponding models.



FAN POWERED TERMINAL UNITS

CERTIFIED - DATA

KQFS Discharge Sound Performance Data
KQFS, 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				
		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
2	6	150	(71)	200	(94)	0.014	(3.50)	68	59	54	46	39	39	25	68	59	54	46	39	39	25	68	61	54	46	39	39	25
		250	(118)	300	(142)	0.039	(9.72)	70	61	55	47	41	42	24	70	63	57	47	41	42	24	70	64	57	47	41	42	24
		300	(142)	350	(165)	0.056	(14.00)	71	62	56	48	42	43	25	71	65	58	48	42	43	25	71	65	58	48	42	43	25
		350	(165)	400	(189)	0.077	(19.05)	72	63	56	48	43	44	26	72	65	58	48	43	44	26	72	66	59	48	43	44	26
		400	(189)	450	(212)	0.100	(24.88)	73	63	56	49	43	45	27	73	66	59	49	43	45	27	73	67	59	49	43	45	27
3	8	450	(212)	500	(236)	0.041	(10.28)	65	61	58	50	52	51	-	65	63	58	50	52	51	21	65	64	58	50	52	51	22
		500	(236)	600	(283)	0.051	(12.70)	67	63	61	54	55	55	21	67	63	61	54	55	55	21	67	66	61	54	55	55	24
		550	(260)	700	(330)	0.062	(15.36)	70	66	64	58	58	58	23	70	66	64	58	58	58	23	70	68	64	58	58	58	25
		625	(295)	800	(378)	0.080	(19.84)	71	67	66	60	61	61	25	71	67	66	60	61	61	25	71	70	66	60	61	61	27
		700	(330)	900	(425)	0.100	(24.88)	73	69	68	63	63	63	27	73	69	68	63	63	63	27	73	71	68	63	63	63	29
4	10	650	(307)	700	(330)	0.035	(8.69)	67	64	62	56	53	53	21	67	67	62	56	53	53	24	69	68	62	56	55	55	26
		800	(378)	850	(401)	0.053	(13.16)	69	67	65	60	57	57	24	69	69	65	60	57	57	27	71	70	67	60	59	59	28
		900	(425)	1000	(472)	0.067	(16.66)	71	69	67	63	60	60	27	71	71	67	63	60	60	29	73	72	67	63	60	62	30
		1000	(472)	1100	(519)	0.083	(20.57)	72	70	69	65	61	62	28	72	72	69	65	61	62	30	74	73	69	65	61	64	32
		1100	(519)	1200	(566)	0.100	(24.88)	73	71	70	66	63	64	30	73	73	70	66	63	64	32	75	74	70	66	63	66	33
5	12	1000	(472)	1100	(519)	0.039	(9.72)	71	65	63	58	56	57	22	71	68	63	58	56	57	26	71	70	63	58	56	57	27
		1100	(519)	1250	(590)	0.047	(11.76)	72	67	64	61	59	60	25	72	70	64	61	59	60	28	72	71	64	61	59	60	29
		1250	(590)	1400	(661)	0.061	(15.19)	73	69	66	64	62	63	27	73	71	66	64	62	63	29	73	72	66	64	62	63	30
		1400	(661)	1600	(755)	0.077	(19.05)	75	71	68	67	65	66	30	75	71	68	67	65	66	30	75	73	68	67	65	66	32
		1600	(755)	1750	(826)	0.100	(24.88)	75	72	69	70	67	68	32	75	72	69	70	67	68	32	75	75	69	70	67	68	33
6	14	1300	(614)	1400	(661)	0.038	(9.54)	74	70	67	64	62	63	28	76	70	67	64	62	63	28	77	70	67	64	62	63	30
		1650	(779)	1750	(826)	0.062	(15.36)	75	73	69	69	67	67	31	77	73	69	69	67	67	31	79	73	69	69	67	67	32
		1850	(873)	2100	(991)	0.078	(19.31)	77	75	71	73	70	71	35	77	75	71	73	70	71	35	80	75	71	73	70	71	35
		2000	(944)	2250	(1062)	0.091	(22.57)	77	76	72	75	71	72	36	79	76	72	75	71	72	36	80	76	72	75	71	72	36
		2100	(991)	2400	(1133)	0.100	(24.88)	78	77	72	76	73	73	37	78	77	72	76	73	73	37	80	77	72	76	73	73	37
7	16	1500	(708)	1500	(708)	0.029	(7.14)	74	66	63	63	60	61	26	76	69	63	63	60	63	29	77	70	63	63	60	61	29
		1825	(861)	1825	(861)	0.042	(10.57)	77	71	67	68	65	66	30	79	73	67	68	65	68	33	80	74	67	68	65	66	33
		2150	(1015)	2150	(1015)	0.059	(14.67)	81	75	70	71	69	70	34	81	76	70	71	69	72	36	82	77	70	71	69	70	37
		2475	(1168)	2475	(1168)	0.078	(19.44)	83	78	73	74	72	73	38	83	78	73	74	72	75	39	83	80	73	74	72	73	40
		2800	(1321)	2800	(1321)	0.100	(24.88)	86	81	75	77	75	76	41	86	81	75	77	77	78	42	86	82	77	77	77	76	43

FAN POWERED TERMINAL UNITS

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.

KQFS Radiated Sound Performance Data

KQFS, RADIATED SOUND DATA

FAN POWERED TERMINAL UNITS

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						
		CFM (L/s)		CFM (L/s)		"WG	(Pa)	Octave Band Sound Power, Lw							Octave Band Sound Power, Lw							Octave Band Sound Power, Lw						
		2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC						
2	6	150 (71)	200 (94)	0.014	(3.50)	55	44	43	39	33	26	-	55	44	43	39	33	26	-	55	44	43	39	36	32	-		
		250 (118)	300 (142)	0.039	(9.72)	61	49	47	44	38	31	23	61	49	47	44	38	31	23	61	51	50	45	42	38	24		
		300 (142)	350 (165)	0.056	(14.00)	63	51	49	45	40	32	26	63	51	49	45	40	32	26	63	54	52	47	44	40	26		
		350 (165)	400 (189)	0.077	(19.05)	65	53	50	47	41	34	28	65	53	50	47	41	34	28	65	55	53	49	46	42	28		
		400 (189)	450 (212)	0.100	(24.88)	67	55	52	48	43	35	31	67	55	52	48	43	35	31	68	57	55	51	47	44	33		
3	8	450 (212)	500 (236)	0.041	(10.28)	58	52	50	46	40	36	25	58	52	50	46	40	36	25	61	56	53	48	43	39	27		
		500 (236)	600 (283)	0.051	(12.70)	60	54	53	49	43	38	27	60	54	53	49	43	38	27	63	58	55	51	45	41	30		
		550 (260)	700 (330)	0.062	(15.36)	62	55	55	51	45	41	29	62	55	55	51	45	41	29	64	59	57	51	47	43	32		
		625 (295)	800 (378)	0.080	(19.84)	63	57	57	53	47	43	31	63	57	57	53	47	43	31	66	61	59	55	49	45	34		
		700 (330)	900 (425)	0.100	(24.88)	65	58	58	55	48	44	33	65	58	58	55	48	44	33	67	62	61	57	50	47	36		
4	10	650 (307)	700 (330)	0.035	(8.69)	62	55	52	49	43	38	27	62	55	52	49	43	40	27	62	58	54	49	46	46	29		
		800 (378)	850 (401)	0.053	(13.16)	62	56	55	49	43	39	29	62	56	55	49	43	41	29	65	60	57	52	48	47	32		
		900 (425)	1000 (472)	0.067	(16.66)	62	56	57	50	44	40	32	62	56	57	50	44	42	32	66	61	60	53	49	48	35		
		1000 (472)	1100 (519)	0.083	(20.57)	62	56	58	50	44	40	33	64	56	58	50	44	42	33	67	62	61	54	50	48	37		
		1100 (519)	1200 (566)	0.100	(24.88)	62	57	59	50	44	41	35	65	59	59	53	46	43	35	69	63	63	55	51	49	38		
5	12	1000 (472)	1100 (519)	0.039	(9.72)	60	52	53	48	40	35	27	60	54	55	50	43	39	29	60	57	56	50	46	44	31		
		1100 (519)	1250 (590)	0.047	(11.76)	63	55	56	51	44	39	30	63	55	56	51	46	42	30	63	59	58	53	48	46	33		
		1250 (590)	1400 (661)	0.061	(15.19)	65	58	58	54	46	42	33	65	58	58	54	46	44	33	65	61	61	54	50	48	36		
		1400 (661)	1600 (755)	0.077	(19.05)	69	61	61	57	50	45	36	69	61	61	57	50	45	36	69	64	63	57	52	50	39		
		1600 (755)	1750 (826)	0.100	(24.88)	71	63	63	60	52	48	39	71	63	63	60	52	48	39	71	66	65	60	54	52	41		
6	14	1300 (614)	1400 (661)	0.038	(9.54)	61	54	55	51	44	39	30	61	56	55	53	46	42	30	61	58	58	53	48	47	33		
		1650 (779)	1750 (826)	0.062	(15.36)	65	58	59	56	49	44	34	65	58	59	56	49	46	34	65	62	62	56	52	50	37		
		1850 (873)	2100 (991)	0.078	(19.31)	69	62	62	60	52	48	38	69	62	62	60	52	48	38	69	65	64	60	55	53	40		
		2000 (944)	2250 (1062)	0.091	(22.57)	70	63	64	61	54	49	39	70	63	64	61	54	49	39	70	66	65	61	56	54	41		
		2100 (991)	2400 (1133)	0.100	(24.88)	72	64	65	63	55	51	40	72	64	65	63	55	51	40	72	67	65	63	57	55	40		
7	16	1500 (708)	1500 (708)	0.029	(7.14)	68	57	57	54	46	41	33	68	57	57	54	48	46	33	70	59	59	54	48	49	35		
		1825 (861)	1825 (861)	0.042	(10.57)	70	61	60	57	50	46	36	70	61	60	57	52	49	36	72	63	63	59	52	52	38		
		2150 (1015)	2150 (1015)	0.059	(14.67)	72	64	63	60	54	49	38	74	64	65	62	56	52	40	74	66	66	62	56	54	41		
		2475 (1168)	2475 (1168)	0.078	(19.44)	74	67	65	62	57	52	41	76	67	67	64	58	54	43	76	69	68	64	59	57	44		
		2800 (1321)	2800 (1321)	0.100	(24.88)	75	69	67	65	59	55	43	77	71	69	67	61	55	45	78	71	70	67	61	59	46		

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.

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