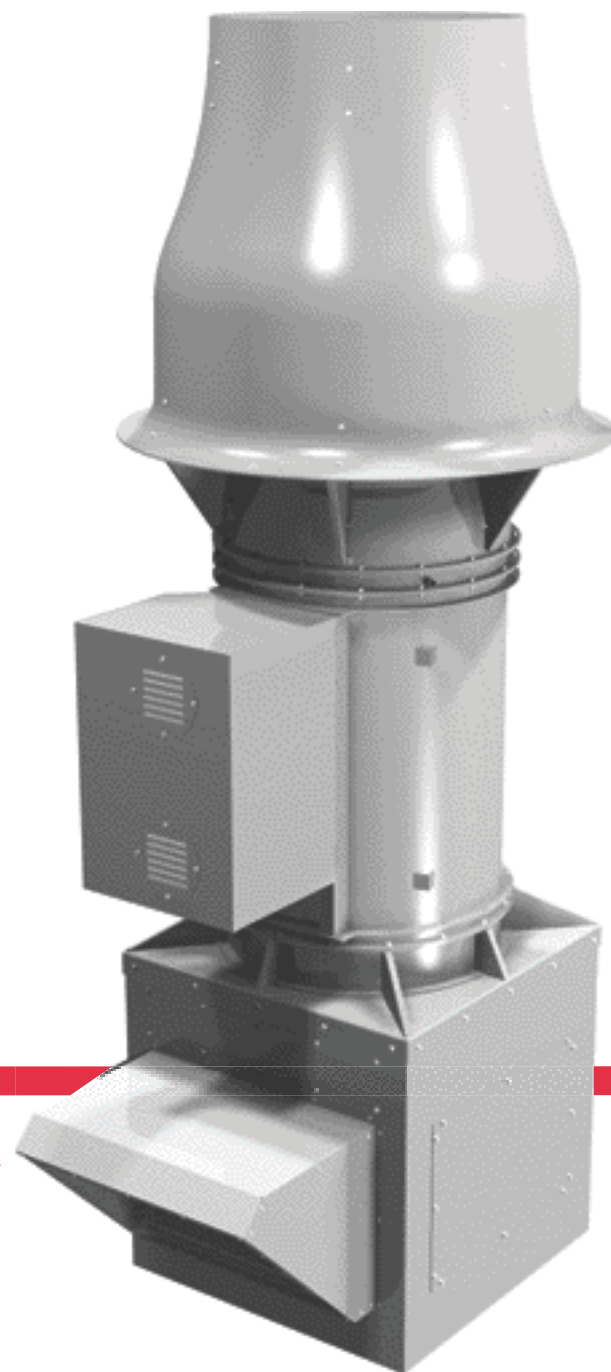




## Vari-Plume® Laboratory Exhaust

QMXVP and QMXHPVP Performance data



# QMX-VP

## Vari-Plume® Laboratory Exhaust Mixed Flow Inline Fan - Performance Data

### Introduction

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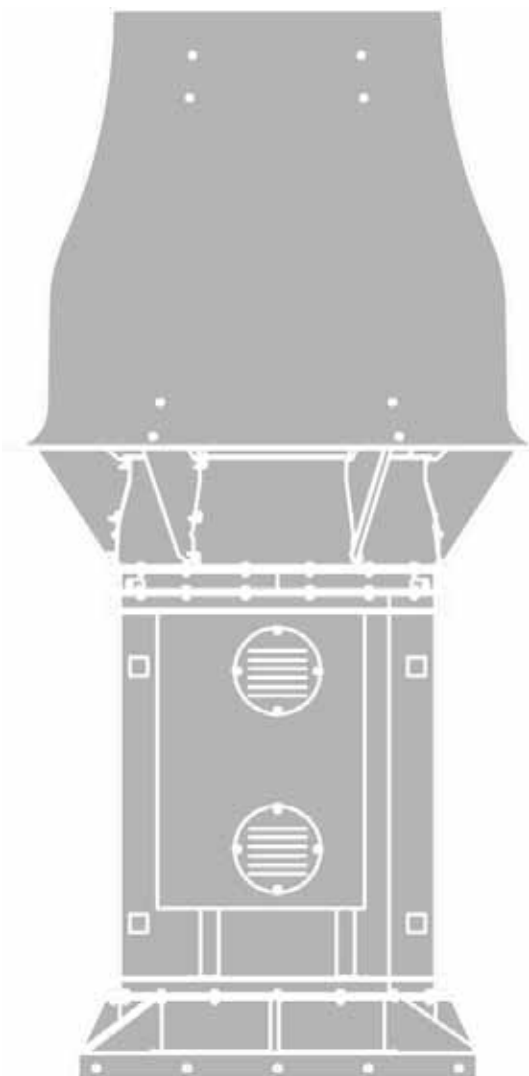
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# QMX-VP Standard Features and Dimension Data

## Vari-Plume® Laboratory Exhaust Mixed Flow Inline Belt Drive



### Standard Features

#### Fan Assembly

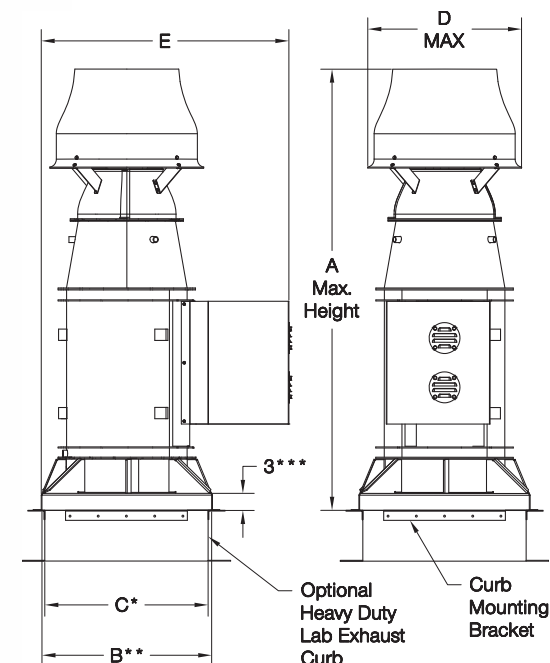
- Mixed-flow wheel
- Minimum 12 gauge steel welded housing
- Concentric dilution nozzle
- Penolic epoxy powder with UV protection (Light Gray)
- L50/200k concentric locking regreasable bearings
- Bolted access door.
- Lifting lugs
- Fan and nozzle drain
- Weather cover
- Reinforced curb cap
- Stainless Steel shaft
- Stainless Steel hardware
- Stainless Steel lube lines
- NEMA 3R disconnect mounted and pre-wired
- Minimum 1.5 Service Factor drives
- Designed to withstand 125 mph wind\*\*\*\*



Loren Cook Company certifies that the QMXVP and QMXHPVP shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Type QMXVP and QMXHPVP are furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).



NOT INTENDED TO BE SUPPORTED BY TRADITIONAL SHEETMETAL ROOF CURB, BUT BY INTEGRAL MEMBERS OF ROOF STRUCTURE.  
\*\*\*\* WINDLOAD RATING DEPENDANT ON ADEQUATE ATTACHMENT TO ROOF STRUCTURE.

### QMXVP / QMXHPVP Dimension Data

Size	A	B **	C *	D	E	Approx. Ship Wt.
90	65	28	27 3/16	23	30	310
120	71	28	27 3/16	28	37	387
135	77	28	27 1/8	28	39	464
150	87	30	29 1/8	36	42	504
165	89	32	31 1/8	36	44	586
180	98	34	33 1/8	43	46	745
202	104	38	36 15/16	43	50	875
225	113	42	40 15/16	43	56	1033
245	121	44	42 15/16	61	59	1230
270	128	48	46 15/16	61	63	1377
300	148	52	50 15/16	74	67	1862
330	154	56	54 13/16	74	73	2177
365	175	62	63 3/4	90	79	3294
402	183	67	65 5/8	90	88	3781
445	201	74	72 5/8	90	95	4320
490	219	80	78 1/2	101	103	6798
540	239	90	85 3/8	101	111	7467
600	263	101	94 3/8	101	122	8692

ALL DIMENSIONS IN INCHES, WEIGHTS IN LBS LESS MOTOR AND DRIVES.  
\* RECOMMENDED CURB OUTSIDE SQUARE DIMENSION.  
\*\* MIXING BOX INSIDE SQUARE DIMENSION.  
\*\*\* DIMENSION IS FROM THE BOTTOM OF THE CURB CAP TO THE TOP OF THE CURB.

# QMXVP Performance Data

90 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							4.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
90QMXVP09H	1500	15.3	4673	2641	2506	4080	1.20	86/87	15.2	4673	2601	2468	4484	1.58	88/89	15.3	4673	2647	2512	4878	1.99	90/91	15.4	4673	2664	2528	5254	2.44	93/93
	1640	16.3	5109	2906	2758	4388	1.49	88/89	16.1	5109	2841	2695	4758	1.90	90/91	16.2	5109	2867	2720	5123	2.33	91/93	16.3	5109	2910	2761	5478	2.80	93/94
	1780	17.3	5545	3168	3006	4699	1.83	90/91	17.0	5545	3093	2935	5043	2.27	91/92	17.0	5545	3092	2934	5383	2.73	93/94							
	1920	18.3	5981	3429	3253	5016	2.22	92/92	18.0	5981	3354	3182	5337	2.69	93/94														
	2060	19.2	6417	3688	3499	5336	2.67	93/94																					
90QMXVP09L	1900	15.6	3987	2704	2566	4318	1.25	89/91	15.5	3987	2681	2544	4668	1.70	90/92	15.4	3987	2665	2529	5010	2.18	92/94	15.3	3987	2641	2506	5331	2.64	93/95
	2020	16.2	4238	2880	2733	4549	1.45	91/92	16.1	4238	2854	2708	4878	1.92	92/94	16.1	4238	2841	2696	5204	2.42	93/95							
	2140	16.9	4490	3056	2900	4782	1.67	92/94	16.8	4490	3027	2872	5091	2.15	93/95	16.7	4490	3015	2861	5402	2.68	94/96							
	2260	17.5	4742	3233	3068	5017	1.91	94/95	17.4	4742	3201	3037	5308	2.40	94/96														
	2380	18.2	4994	3409	3235	5254	2.18	95/96																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>Wf</sub>A and outlet L<sub>Wo</sub>A sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 120 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							4.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
120QMXV/P09H	1500	15.8	4673	2621	2487	2809	1.58	88/87	15.6	4673	2587	2455	3256	2.29	100/91														
	1760	17.4	5483	3065	2908	3120	2.22	90/89	17.5	5483	3088	2930	3549	3.08	98/93	17.0	5483	2964	2812	3907	3.92	106/96							
	2020	19.1	6293	3524	3344	3456	3.07	92/92	19.2	6293	3535	3354	3854	4.05	96/95	19.2	6293	3540	3359	4190	4.99	104/97							
	2280	20.9	7103	3993	3789	3811	4.17	94/94	20.8	7103	3974	3771	4158	5.19	97/96														
	2540	22.7	7913	4468	4240	4180	5.55	96/97																					
120QMXV/P09L	1900	15.7	3987	2611	2478	2498	1.31	82/84	15.5	3987	2560	2430	2880	1.92	88/88	15.4	3987	2525	2396	3262	2.64	92/91							
	2340	18.1	4910	3250	3084	2908	2.07	86/88	17.9	4910	3189	3026	3228	2.80	89/90	17.8	4910	3155	2993	3536	3.56	93/93	17.6	4910	3126	2966	3847	4.42	96/95
	2780	20.5	5833	3886	3688	3337	3.13	89/92	20.3	5833	3827	3632	3617	3.99	91/93	20.1	5833	3782	3589	3881	4.85	94/95	20.0	5833	3751	3559	4140	5.75	96/97
	3220	22.9	6756	4520	4289	3777	4.53	92/95	22.7	6756	4468	4239	4028	5.51	94/96														
	3660	25.2	7679	5152	4889	4226	6.36	95/98																					
120QMXV/P12H	2500	19.6	4202	2689	4751	3019	2.34	87/89	19.7	4202	2699	4769	3330	3.11	89/91	19.5	4202	2668	4714	3628	3.94	93/93	19.1	4202	2574	4549	3912	4.81	96/95
	2790	21.2	4689	3003	5307	3299	3.04	89/92	21.3	4689	3009	5317	3582	3.89	91/93	21.3	4689	3006	5312	3854	4.79	93/95	21.0	4689	2960	5231	4117	5.73	96/96
	3080	22.9	5176	3318	5863	3583	3.89	91/94	22.9	5176	3317	5861	3844	4.82	92/95	22.9	5176	3324	5875	4094	5.79	94/96							
	3370	24.5	5664	3636	6426	3871	4.90	93/96	24.4	5664	3627	6409	4114	5.91	94/97														
	3660	26.1	6151	3956	6991	4162	6.08	95/99																					
120QMXV/P12L	3300	20.0	3525	2761	4878	3115	2.32	89/92	19.8	3525	2721	4808	3392	3.12	90/93	19.6	3525	2686	4746	3645	4.02	91/95	19.4	3525	2642	4669	3879	4.97	93/96
	3630	21.5	3878	3053	5395	3376	2.92	91/94	21.2	3878	3003	5306	3626	3.77	92/95	21.1	3878	2977	5260	3869	4.72	93/96	20.9	3878	2940	5195	4089	5.74	94/97
	3960	23.0	4230	3346	5913	3642	3.63	93/96	22.7	4230	3287	5808	3867	4.53	94/97	22.6	4230	3261	5763	4097	5.52	94/98							
	4290	24.5	4583	3640	6432	3911	4.45	95/98	24.2	4583	3574	6316	4115	5.41	95/99														
	4620	26.0	4935	3933	6949	4182	5.41	96/100																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind

QMXVP Performance Data

135 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							4.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
135QMX\VP09H	1500	16.2	4673	2609	2476	2636	2.05	93/91	16.3	4673	2653	2517	2937	2.85	95/94	16.3	4673	2648	2513	3165	3.63	97/95	16.3	4673	2648	2512	3381	4.47	99/97
	1770	17.8	5514	3048	2893	2963	2.96	96/94	18.1	5514	3113	2954	3286	3.96	99/96	18.1	5514	3131	2971	3509	4.88	100/98	18.1	5514	3127	2967	3702	5.80	101/99
	2040	19.5	6355	3505	3326	3280	4.10	98/96	19.7	6355	3558	3377	3627	5.33	102/99	19.9	6355	3598	3414	3860	6.43	103/101	19.9	6355	3608	3424	4048	7.49	104/102
	2310	21.3	7196	3987	3783	3600	5.54	101/99	21.4	7196	3996	3792	3958	6.98	104/102														
	2580	23.1	8037	4472	4243	3931	7.32	103/101																					
135QMX\VP09L	1800	15.9	3777	2529	2400	2126	1.34	85/86																					
	2270	18.3	4763	3190	3027	2442	2.15	87/88	18.2	4763	3163	3001	2838	3.09	93/93														
	2740	20.8	5749	3849	3652	2797	3.32	90/92	20.8	5749	3857	3660	3131	4.37	94/95	20.7	5749	3809	3615	3452	5.55	98/98	20.3	5749	3710	3521	3755	6.84	102/100
	3210	23.3	6735	4520	4289	3174	4.93	93/95	23.3	6735	4512	4281	3454	6.08	96/97	23.3	6735	4516	4286	3741	7.36	99/100							
	3680	25.9	7721	5195	4929	3562	7.00	96/98																					
135QMX\VP12H	2400	19.0	4034	2549	4504	2451	2.21	87/88																					
	2770	21.3	4655	2983	5272	2729	3.10	89/91	20.6	4655	2847	5031	3041	4.09	92/94	20.3	4655	2797	4942	3369	5.24	97/97							
	3140	23.4	5277	3399	6006	3019	4.23	91/94	22.8	5277	3295	5822	3286	5.28	94/95	22.3	5277	3198	5651	3572	6.50	97/98							
	3510	25.4	5899	3800	6716	3312	5.61	94/96	25.1	5899	3745	6619	3553	6.77	96/97														
	3880	27.5	6521	4200	7422	3612	7.29	96/98																					
135QMX\VP12L	3200	19.5	3418	2640	4665	2379	2.05	86/88	19.3	3418	2597	4589	2674	2.97	89/90	18.9	3418	2531	4473	2937	3.94	93/92	18.9	3418	2531	4472	3206	5.03	97/95
	3750	21.8	4006	3093	5466	2686	2.91	89/91	21.8	4006	3087	5455	2955	3.98	90/93	21.5	4006	3024	5344	3191	5.06	94/94	21.2	4006	2971	5250	3415	6.20	97/96
	4300	24.1	4594	3549	6272	3007	4.02	92/94	24.1	4594	3548	6270	3244	5.22	93/95	24.0	4594	3525	6230	3468	6.46	95/97							
	4850	26.5	5181	4007	7081	3337	5.43	95/96	26.4	5181	4000	7068	3542	6.73	96/98														
	5400	28.8	5769	4467	7893	3673	7.18	97/99																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>Wf</sub>A and outlet L<sub>Wo</sub>A sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 150 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							4.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
150QMX/VP09H	1800	18.3	5607	3031	2876	2416	2.72	84/90																					
	1970	19.3	6137	3315	3146	2571	3.33	85/92																					
	2140	20.4	6667	3603	3419	2736	4.04	85/94																					
	2310	21.5	7196	3891	3693	2907	4.88	86/95																					
	2480	22.6	7726	4180	3966	3080	5.83	87/97																					
150QMX/VP09L	2100	16.9	4406	2675	2539	1999	1.78	85/84	17.0	4406	2703	2565	2365	2.75	92/90														
	2510	18.9	5266	3191	3028	2245	2.60	87/87	18.9	5266	3214	3050	2573	3.68	93/92	19.0	5266	3232	3067	2867	4.87	97/95							
	2920	20.8	6127	3719	3529	2509	3.68	90/91	20.8	6127	3722	3532	2799	4.89	93/93	20.9	6127	3745	3553	3070	6.19	97/96							
	3330	22.9	6987	4260	4042	2787	5.10	92/94	22.8	6987	4234	4018	3040	6.39	95/95														
	3740	24.9	7847	4807	4562	3072	6.89	94/96																					
150QMX/VP12H	2300	19.5	3866	2550	4507	2070	2.06	86/85	19.6	3866	2566	4535	2421	3.06	103/91	19.9	3866	2618	4625	2736	4.20	111/95							
	2680	21.7	4504	2975	5257	2303	2.88	88/89	21.7	4504	2965	5239	2608	3.96	99/92	21.9	4504	3010	5319	2902	5.20	113/96							
	3060	23.9	5143	3400	6009	2550	3.96	90/92	23.8	5143	3391	5991	2815	5.12	95/94	23.8	5143	3391	5992	3082	6.43	108/97							
	3440	26.1	5782	3826	6761	2805	5.31	93/95	26.0	5782	3816	6744	3040	6.56	95/96														
	3820	28.2	6420	4251	7512	3065	6.97	94/97																					
150QMX/VP12L	3000	19.6	3205	2563	4530	1919	1.76	83/83	20.0	3205	2646	4676	2206	2.65	87/87	20.4	3205	2713	4794	2487	3.54	91/91	20.8	3205	2789	4928	2773	4.76	96/95
	3620	22.3	3867	3091	5462	2194	2.65	87/87	22.5	3867	3121	5515	2450	3.67	89/89	22.9	3867	3200	5655	2682	4.74	92/92	23.2	3867	3257	5756	2914	5.79	95/95
	4240	25.1	4529	3628	6411	2484	3.84	90/91	25.0	4529	3623	6402	2712	4.97	92/92	25.3	4529	3672	6489	2921	6.22	94/94							
	4860	27.8	5192	4165	7360	2784	5.38	93/94	27.7	5192	4149	7332	2986	6.66	94/95														
	5480	30.5	5854	4702	8309	3091	7.32	96/97																					
150QMX/VP15H	4000	23.4	3645	2564	6960	2161	2.44	87/88	23.2	3645	2530	6868	2393	3.41	89/90	23.3	3645	2535	6883	2623	4.52	90/93	23.4	3645	2555	6936	2843	5.71	92/95
	4530	25.6	4128	2914	7910	2388	3.25	89/91	25.4	4128	2877	7811	2595	4.30	91/93	25.3	4128	2864	7775	2799	5.48	92/95	25.4	4128	2873	7800	3000	6.76	94/96
	5060	27.8	4611	3258	8843	2618	4.24	92/94	27.7	4611	3230	8769	2808	5.40	93/95	27.5	4611	3202	8693	2991	6.64	94/96							
	5590	30.0	5094	3601	9775	2852	5.42	94/97	29.9	5094	3582	9725	3028	6.71	95/97														
	6120	32.2	5577	3943	10704	3089	6.84	96/99																					
150QMX/VP15L	4700	23.6	3062	2588	7026	2260	2.52	89/91	23.7	3062	2613	7093	2486	3.53	92/92	23.6	3062	2585	7016	2678	4.59	92/94	23.3	3062	2551	6924	2864	5.75	93/95
	5210	25.4	3394	2874	7801	2462	3.18	92/93	25.5	3394	2886	7833	2664	4.28	94/95	25.5	3394	2893	7852	2854	5.43	95/96	25.2	3394	2850	7736	3020	6.64	95/96
	5720	27.2	3726	3162	8583	2668	3.97	94/96	27.2	3726	3156	8567	2847	5.16	96/97	27.3	3726	3180	8634	3032	6.40	97/97							
	6230	29.0	4059	3450	9364	2877	4.90	96/98	28.9	4059	3432	9318	3037	6.18	97/98														
	6740	30.9	4391	3739	10149	3088	5.99	97/99																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WO}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

QMXVP Performance Data

165 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
165QMXVP09H	1500	17.5	4673	2661	2525	1962	2.38	90/87	17.5	4673	2666	2530	2196	3.42	94/90	17.4	4673	2655	2519	2575	5.88	99/95	17.2	4673	2592	2460	2884	8.50	103/99
	1770	19.3	5514	3154	2993	2229	3.48	94/90	19.2	5514	3136	2975	2441	4.61	97/93	19.3	5514	3152	2991	2801	7.33	102/97	19.2	5514	3122	2963	3099	10.3	105/101
	2040	21.1	6355	3645	3459	2505	4.94	98/94	21.0	6355	3615	3430	2696	6.17	100/96	21.1	6355	3628	3443	3034	9.07	104/100							
	2310	23.0	7196	4129	3918	2785	6.77	101/97	22.9	7196	4107	3897	2959	8.15	103/99														
	2580	24.8	8037	4609	4374	3070	9.02	104/100																					
165QMXVP09L	2100	18.7	4406	2991	2838	1895	2.32	90/88																					
	2590	21.2	5434	3669	3482	2176	3.59	93/92																					
	3080	23.9	6462	4375	4151	2476	5.42	97/95	23.9	6462	4391	4167	2744	7.05	101/98														
	3570	26.7	7491	5117	4855	2782	7.83	100/98	26.4	7491	5060	4802	3022	9.58	104/101														
	4060	29.5	8519	5873	5573	3094	10.9	103/101																					
165QMXVP12H	2300	20.0	3866	2523	4459	1969	2.63	91/90																					
	2760	22.6	4639	3030	5355	2229	3.92	94/93	22.3	4639	2969	5247	2500	5.36	99/97														
	3220	25.2	5412	3536	6249	2497	5.66	96/96	25.1	5412	3532	6241	2766	7.30	101/99														
	3680	27.8	6185	4050	7157	2780	7.93	99/100	27.8	6185	4042	7142	3026	9.72	103/102														
	4140	30.4	6958	4566	8068	3070	10.8	102/103																					
165QMXVP12L	3100	20.3	3312	2592	4580	1718	2.14	82/83	20.3	3312	2580	4560	2031	3.33	88/89														
	3970	24.2	4241	3347	5914	2035	3.66	86/88	24.0	4241	3313	5855	2289	5.01	90/91	23.9	4241	3287	5808	2776	8.21	98/97							
	4840	28.1	5170	4110	7263	2376	5.89	90/93	27.8	5170	4059	7172	2592	7.45	92/95	27.7	5170	4036	7132	2996	10.9	99/99							
	5710	32.0	6100	4864	8595	2729	8.93	95/98	31.7	6100	4818	8514	2915	10.8	96/99														
	6580	35.8	7029	5616	9924	3091	13.0	99/103																					
165QMXVP15H	4500	24.8	4101	2754	7477	1964	3.31	86/88	24.6	4101	2726	7402	2198	4.65	88/90	23.3	4101	2525	6854	2628	7.56	96/96	24.1	4101	2650	7194	3062	11.1	103/102
	5290	27.9	4820	3245	8810	2229	4.79	90/92	27.8	4820	3232	8773	2436	6.35	91/93	27.0	4820	3097	8408	2811	9.55	96/97							
	6080	31.0	5540	3739	10151	2504	6.74	93/96	30.9	5540	3719	10095	2684	8.46	95/96	30.6	5540	3666	9952	3026	12.1	97/98							
	6870	34.2	6260	4237	11502	2785	9.22	96/99	34.0	6260	4208	11424	2945	11.1	98/99														
	7660	37.4	6980	4736	12856	3071	12.3	100/102																					
165QMXVP15L	5200	24.5	3388	2704	7340	1947	3.06	87/89	23.9	3388	2611	7088	2162	4.33	89/91	23.3	3388	2520	6840	2547	7.14	92/94	23.3	3388	2518	6835	2936	10.6	99/100
	6130	27.8	3993	3221	8743	2217	4.44	91/93	27.1	3993	3122	8476	2413	5.94	92/94	26.6	3993	3041	8254	2747	8.96	95/96	26.1	3993	2953	8015	3075	12.5	97/99
	7060	30.9	4599	3721	10101	2495	6.24	94/96	30.5	4599	3656	9924	2670	7.93	95/97	29.8	4599	3535	9597	2981	11.4	98/99							
	7990	34.1	5205	4216	11446	2780	8.54	98/99	33.8	5205	4181	11349	2936	10.4	99/100														
	8920	37.2	5811	4710	12786	3070	11.4	101/102																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.



## QMXVP Performance Data

## 180 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
180QMXVP12L	3100	20.9	3312	2604	4602	1582	2.34	87/84	20.8	3312	2584	4566	1895	3.69	93/91														
	4020	25.0	4294	3402	6012	1874	4.05	89/89	24.7	4294	3354	5926	2128	5.60	93/93	24.6	4294	3340	5902	2588	9.21	101/100							
	4940	28.9	5277	4181	7388	2189	6.58	91/94	28.9	5277	4176	7379	2410	8.46	95/96	28.5	5277	4099	7243	2811	12.4	103/101							
	5860	32.9	6260	4961	8766	2519	10.1	95/99	32.9	6260	4961	8767	2710	12.3	98/100														
	6780	36.9	7243	5744	10149	2860	14.9	99/103																					
180QMXVP15H	4100	23.9	3736	2539	6894	1620	2.77	84/85	23.7	3736	2507	6807	1883	4.17	89/89	24.0	3736	2552	6928	2363	7.32	98/98							
	5100	27.9	4647	3165	8592	1896	4.49	87/90	27.8	4647	3155	8564	2112	6.08	90/92	27.4	4647	3086	8378	2526	9.69	97/98	27.9	4647	3163	8587	2905	13.7	104/103
	6100	31.9	5559	3790	10289	2188	6.92	91/95	31.8	5559	3780	10263	2371	8.70	93/96	31.6	5559	3749	10177	2727	12.8	98/99							
	7100	35.8	6470	4416	11988	2490	10.2	94/99	35.8	6470	4405	11959	2649	12.2	96/99														
	8100	39.8	7381	5042	13687	2798	14.5	98/102																					
180QMXVP15L	4900	24.5	3192	2625	7125	1576	2.59	84/85	24.3	3192	2595	7044	1805	3.92	87/88								23.7	3192	2511	6816	2646	10.7	103/103
	6170	29.3	4020	3390	9202	1883	4.33	88/90	28.5	4020	3266	8865	2057	5.79	89/91	28.4	4020	3251	8825	2419	9.40	94/96	27.7	4020	3131	8500	2756	13.4	100/101
	7440	33.9	4847	4112	11163	2200	6.81	92/95	33.3	4847	4024	10924	2349	8.51	93/95	32.7	4847	3931	10673	2648	12.4	96/98							
	8710	38.4	5674	4817	13076	2523	10.2	96/98	38.2	5674	4785	12988	2658	12.2	97/99														
	9980	42.8	6502	5517	14978	2852	14.6	100/102																					
180QMXVP18H	5800	27.3	2720	2513	9898	1745	3.43	87/88	27.6	2720	2544	10020	1954	4.92	89/91	27.5	2720	2539	10004	2327	8.26	93/97	27.3	2720	2508	9878	2692	12.1	99/102
	7000	31.2	3283	3018	11889	2022	5.24	91/92	31.5	3283	3058	12047	2207	7.00	92/94	31.5	3283	3056	12038	2525	10.7	95/98	31.6	3283	3066	12078	2836	14.9	98/102
	8200	35.1	3846	3534	13921	2311	7.67	94/96	35.3	3846	3552	13994	2468	9.70	96/97	35.6	3846	3596	14166	2763	13.9	98/100							
	9400	39.2	4409	4056	15979	2608	10.9	98/100	39.1	4409	4054	15971	2741	13.1	99/100														
	10600	43.2	4972	4580	18040	2909	14.9	101/103																					
180QMXVP18L	7100	27.7	2972	2559	10082	1876	3.78	90/92	27.8	2972	2581	10167	2051	5.30	91/93	27.3	2972	2509	9883	2375	8.69	93/96	28.0	2972	2602	10249	2689	12.7	96/103
	8300	31.0	3475	2991	11783	2137	5.42	93/96	31.1	3475	3003	11829	2289	7.14	94/96	30.9	3475	2982	11749	2575	10.8	96/98							
	9500	34.3	3977	3429	13506	2405	7.55	97/99	34.3	3977	3427	13499	2538	9.47	97/99	34.5	3977	3456	13613	2797	13.6	99/101							
	10700	37.7	4480	3868	15237	2678	10.3	100/102	37.6	4480	3854	15184	2794	12.3	100/102														
	11900	41.1	4982	4307	16966	2953	13.6	103/105																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WO}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

202 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
202QMXVP12L	3200	22.1	3418	2707	4784	1459	2.95	89/89																					
	4150	26.1	4433	3486	6160	1730	5.11	93/93																					
	5100	30.2	5448	4295	7589	2009	8.27	96/97	30.2	5448	4290	7581	2223	10.6	100/100														
	6050	34.4	6463	5112	9034	2300	12.7	99/101	34.3	6463	5083	8982	2499	15.5	103/103														
	7000	38.6	7478	5931	10480	2603	18.6	102/105																					
202QMXVP15H	3900	24.4	3554	2504	6797	1411	2.87	85/87	25.2	3554	2630	7140	1699	4.63	93/92														
	5120	29.6	4666	3327	9033	1687	5.15	89/91	29.4	4666	3289	8928	1912	7.05	94/94	30.5	4666	3471	9424	2337	11.9	102/101							
	6340	34.8	5777	4144	11251	1983	8.61	92/95	34.5	5777	4092	11109	2177	10.8	95/97	34.8	5777	4138	11232	2536	16.0	103/102							
	7560	39.9	6889	4944	13423	2294	13.4	96/99	39.7	6889	4921	13360	2461	16.1	98/101														
	8780	44.9	8001	5744	15593	2614	19.9	100/104																					
202QMXVP15L	4500	24.5	2932	2510	6815	1284	2.43	82/84	25.0	2932	2599	7054	1557	4.04	88/89	26.9	2932	2901	7875	2031	7.97	99/98							
	6100	30.0	3974	3386	9191	1562	4.43	87/89	30.1	3974	3409	9255	1775	6.40	90/91	31.1	3974	3560	9666	2174	10.8	97/97	32.7	3974	3808	10337	2536	16.1	104/103
	7700	35.6	5016	4277	11611	1872	7.61	91/94	35.6	5016	4276	11607	2040	9.87	93/94	36.0	5016	4332	11760	2374	15.0	98/99							
	9300	41.3	6059	5171	14038	2196	12.3	95/98	41.3	6059	5162	14013	2337	14.8	97/99														
	10900	47.0	7101	6068	16472	2528	18.7	99/102																					
202QMXVP18H	5900	27.6	2767	2515	9908	1468	3.67	86/89	28.0	2767	2566	10108	1687	5.46	89/91	28.1	2767	2575	10144	2096	9.57	97/98	28.6	2767	2651	10442	2457	14.5	105/106
	7400	32.6	3471	3171	12493	1737	6.03	90/92	32.6	3471	3165	12467	1917	8.18	92/93	32.9	3471	3207	12634	2255	12.8	97/97	32.9	3471	3211	12650	2581	18.0	102/104
	8900	37.7	4174	3833	15098	2019	9.40	93/96	37.4	4174	3796	14955	2173	11.9	95/97	37.9	4174	3853	15178	2467	17.2	99/99							
	10400	42.8	4878	4493	17698	2309	14.0	97/100	42.5	4878	4456	17554	2445	16.8	98/100														
	11900	47.8	5582	5151	20293	2603	20.0	100/103																					
202QMXVP18L	6700	27.5	2805	2505	9868	1465	3.36	87/90	27.5	2805	2507	9874	1661	5.09	89/91	28.3	2805	2603	10252	2031	9.21	94/95	29.5	2805	2760	10874	2378	14.0	103/102
	8500	32.9	3559	3201	12611	1753	5.53	91/94	32.6	3559	3165	12470	1922	7.72	93/95	32.9	3559	3210	12646	2224	12.2	96/97	33.5	3559	3287	12948	2516	17.6	99/100
	10300	38.1	4312	3882	15293	2054	8.69	95/98	37.9	4312	3864	15220	2201	11.2	97/98	37.7	4312	3838	15119	2464	16.5	99/100							
	12100	43.2	5066	4556	17947	2364	13.1	99/101	43.3	5066	4557	17951	2492	15.9	100/102														
	13900	48.4	5819	5229	20598	2678	18.8	103/105																					
202QMXVP21H	7600	30.4	3612	2531	12658	1617	4.73	89/90	30.4	3612	2522	12615	1795	6.81	90/92	30.3	3612	2518	12595	2132	11.3	94/95	30.4	3612	2529	12648	2438	16.3	97/99
	8900	34.2	4230	2969	14847	1835	6.80	92/94	34.1	4230	2958	14796	1990	9.07	93/94	34.0	4230	2952	14761	2287	14.2	96/97	34.0	4230	2948	14744	2566	19.5	99/100
	10200	37.9	4848	3404	17023	2058	9.51	95/96	37.9	4848	3396	16984	2197	11.9	96/97	37.8	4848	3384	16923	2460	17.6	98/99							
	11500	41.7	5466	3839	19202	2286	12.9	98/99	41.6	5466	3833	19170	2412	15.6	99/100														
	12800	45.4	6084	4276	21383	2517	17.2	101/102																					
202QMXVP21L	9600	31.8	3496	2692	13463	1762	5.99	92/94	31.0	3496	2602	13015	1909	8.02	93/95	30.4	3496	2523	12617	2186	12.5	95/97	30.6	3496	2546	12735	2457	18.0	97/99
	10900	35.1	3969	3070	15354	1961	8.11	95/97	34.5	3969	3004	15023	2094	10.4	96/97	33.5	3969	2884	14421	2342	15.2	97/99							
	12200	38.3	4443	3445	17227	2164	10.8	97/99	37.9	4443	3399	17000	2286	13.3	98/100	36.7	4443	3263	16317	2511	18.5	100/101							
	13500	41.5	4916	3817	19090	2369	14.0	100/102	41.2	4916	3785	18929	2481	16.7	101/102														
	14800	44.7	5390	4189	20950	2576	17.8	102/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 225 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
225QMXVP12H	2300	22.0	3866	2526	4464	1354	3.93	92/90	22.0	3866	2527	4466	1522	5.79	95/94	22.1	3866	2542	4493	1800	10.0	100/98	22.1	3866	2539	4487	2031	14.8	103/102
	2830	24.9	4756	3105	5487	1588	6.29	96/95	25.0	4756	3111	5498	1736	8.37	98/97	25.0	4756	3114	5503	1991	13.2	103/101	25.1	4756	3128	5527	2209	18.5	106/104
	3360	27.9	5647	3686	6513	1829	9.54	99/99	27.9	5647	3690	6521	1961	11.9	101/100	28.0	5647	3693	6526	2195	17.3	105/103							
	3890	30.9	6538	4270	7545	2076	13.9	103/102	30.9	6538	4267	7541	2195	16.6	104/104														
	4420	33.9	7429	4855	8580	2326	19.4	106/105																					
225QMXVP15H	4000	25.5	3645	2544	6906	1319	3.69	90/89																					
	5150	30.2	4693	3299	8957	1555	6.27	93/93																					
	6300	34.9	5741	4027	10932	1800	9.91	96/97	34.9	5741	4037	10960	1992	13.0	101/100														
	7450	39.5	6789	4763	12929	2052	14.9	98/100	39.6	6789	4770	12949	2234	18.6	103/103														
	8600	44.2	7837	5509	14956	2315	21.6	101/104																					
225QMXVP15L	4800	25.5	3127	2545	6908	1172	3.00 SP	82/84	25.3	3127	2523	6849	1440	5.00	92/91														
	6500	31.2	4235	3453	9374	1411	5.53	88/89	31.2	4235	3450	9364	1623	7.89	91/92	26.4	4235	2687	7295	2006	13.3	102/100							
	8200	37.0	5342	4370	11864	1682	9.66	95/94	36.9	5342	4349	11807	1847	12.2	96/95	37.1	5342	4378	11885	2186	18.6	100/100							
	9900	42.8	6450	5288	14356	1966	15.6	100/98	42.7	6450	5264	14291	2105	18.6	100/99														
	11600	48.7	7557	6209	16856	2258	23.6	102/102																					
225QMXVP18H	6000	29.1	2814	2605	10261	1290	4.10	84/86	28.4	2814	2521	9930	1519	6.33	90/90														
	7500	34.2	3518	3269	12878	1511	6.77	88/90	33.7	3518	3214	12662	1692	9.11	91/92	33.8	3518	3216	12670	2055	15.0	100/99							
	9000	39.2	4221	3931	15484	1746	10.5	92/95	39.1	4221	3914	15419	1897	13.1	94/96	38.0	4221	3765	14832	2202	19.6	99/99							
	10500	44.3	4925	4596	18105	1990	15.5	95/99	44.2	4925	4575	18023	2120	18.7	97/99														
	12000	49.5	5629	5264	20736	2240	22.1	99/102																					
225QMXVP18L	7800	30.0	3266	2728	10748	1290	4.44	85/87	29.3	3266	2635	10382	1476	6.68	88/89														
	9700	35.3	4061	3422	13479	1522	7.29	90/92	34.9	4061	3365	13256	1672	9.68	91/93	33.8	4061	3220	12686	1964	15.6	95/96	31.6	4061	2938	11574	2244	22.0	101/101
	11600	40.6	4856	4108	16183	1763	11.3	94/96	40.3	4856	4066	16019	1891	14.0	95/97	39.4	4856	3948	15552	2144	20.5	98/99							
	13500	45.9	5652	4793	18882	2010	16.5	97/100	45.6	5652	4759	18747	2125	19.8	98/100														
	15400	51.1	6447	5478	21578	2261	23.4	100/103																					
225QMXVP21H	7900	31.9	3755	2612	13061	1392	5.26	87/88	31.6	3755	2577	12888	1570	7.52	89/90	31.3	3755	2541	12706	1917	12.8	95/95	32.7	3755	2703	13516	2262	19.2	103/101
	9500	36.6	4515	3160	15803	1605	7.99	91/92	36.2	4515	3118	15595	1758	10.6	92/93	35.8	4515	3064	15324	2046	16.3	96/97	35.8	4515	3069	15349	2339	23.1	101/101
	11100	41.2	5276	3700	18503	1826	11.7	94/96	41.0	5276	3668	18346	1959	14.7	95/97	40.5	5276	3621	18107	2213	21.0	98/99							
	12700	45.8	6036	4237	21189	2052	16.5	97/99	45.7	6036	4218	21095	2170	19.8	98/100														
	14300	50.5	6797	4774	23876	2282	22.6	100/102																					
225QMXVP21L	9300	32.1	3387	2642	13213	1389	5.01	88/89	31.3	3387	2549	12747	1554	7.27	90/91	31.2	3387	2531	12658	1843	12.3	94/94	31.9	3387	2621	13108	2103	17.9	98/98
	11200	36.9	4079	3196	15982	1609	7.64	92/94	36.5	4079	3149	15750	1749	10.2	93/95	35.4	4079	3019	15097	2011	15.9	96/96	35.7	4079	3054	15271	2241	22.2	99/99
	13100	41.6	4771	3741	18711	1837	11.1	96/97	41.4	4771	3721	18609	1959	14.1	97/98	40.3	4771	3589	17947	2193	20.4	98/99							
	15000	46.3	5462	4285	21431	2071	15.8	99/101	46.2	5462	4277	21390	2178	19.0	100/101														
	16900	50.9	6154	4829	24149	2307	21.5	102/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WO}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

QMXVP Performance Data

245 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
245QMXVP15H	5200	31.2	4738	3340	9068	1410	6.84	96/94																					
	5950	34.3	5422	3827	10389	1555	9.33	98/96																					
	6700	37.4	6105	4312	11705	1710	12.5	100/99																					
	7450	40.4	6789	4797	13023	1869	16.3	103/101	40.4	6789	4783	12984	2010	19.9	106/103														
	8200	43.5	7472	5271	14310	2026	20.9	105/104																					
245QMXVP15L	4800	26.0	3127	2511	6816	1079	3.30	87/85																					
	6500	31.8	4235	3431	9315	1282	5.92	89/89	31.6	4235	3394	9212	1496	8.70	96/94														
	8200	37.6	5342	4342	11788	1506	9.97	92/93	37.4	5342	4318	11721	1690	13.2	97/97	37.3	5342	4294	11658	2013	20.6	105/102							
	9900	43.4	6450	5268	14302	1749	15.9	96/97	43.2	6450	5231	14201	1903	19.6	100/100														
	11600	49.4	7557	6202	16837	2003	24.1	99/101																					
245QMXVP18H	5900	29.2	2767	2523	9939	1154	4.30	87/86	29.5	2767	2561	10088	1389	6.83	94/92														
	7600	34.8	3565	3260	12844	1356	7.25	90/90	34.7	3565	3243	12776	1552	10.2	95/94	35.4	3565	3331	13121	1894	16.9	103/101							
	9300	40.4	4362	3988	15709	1578	11.6	93/94	40.4	4362	3986	15702	1741	15.0	97/97	40.4	4362	3989	15716	2052	22.8	104/102							
	11000	46.0	5159	4713	18566	1812	17.8	96/98	46.0	5159	4719	18588	1949	21.6	99/100														
	12700	51.5	5957	5440	21431	2053	26.0	100/102																					
245QMXVP18L	7500	30.0	3140	2635	10380	1111	4.18	84/84	29.3	3140	2540	10005	1306	6.51	89/90								29.5	3140	2563	10096	1987	19.0	109/106
	9600	36.0	4019	3416	13456	1319	7.01	89/90	35.4	4019	3338	13149	1478	9.78	91/92	34.8	4019	3254	12818	1781	16.1	97/98							
	11700	41.9	4898	4178	16458	1542	11.1	93/94	41.5	4898	4137	16297	1676	14.4	95/95	40.4	4898	3990	15717	1931	21.4	99/99							
	13800	47.6	5777	4933	19433	1774	16.9	97/99	47.5	5777	4913	19352	1889	20.6	98/99														
	15900	53.4	6657	5688	22408	2011	24.5	101/102																					
245QMXVP21H	7600	31.7	3612	2510	12552	1188	5.04	85/86	31.9	3612	2534	12673	1382	7.54	91/91	32.5	3612	2612	13063	1754	13.7	100/99							
	9400	37.1	4468	3141	15707	1387	8.11	89/91	36.7	4468	3099	15499	1543	10.9	92/93	37.3	4468	3166	15835	1855	17.6	99/99							
	11200	42.5	5323	3766	18832	1596	12.4	93/95	41.9	5323	3705	18527	1728	15.6	95/96	42.1	5323	3724	18622	1992	22.8	100/100							
	13000	47.7	6179	4376	21883	1810	18.1	97/98	47.4	6179	4338	21695	1928	21.8	98/99														
	14800	52.9	7034	4982	24917	2028	25.4	100/102																					
245QMXVP21L	9200	32.2	3350	2578	12893	1177	4.94	86/87	31.7	3350	2521	12608	1348	7.42	89/90	32.1	3350	2558	12792	1664	13.3	94/95	32.6	3350	2614	13074	1965	20.0	99/105
	11400	37.7	4151	3216	16085	1382	7.92	91/92	37.3	4151	3170	15853	1525	10.8	93/93	36.9	4151	3118	15593	1789	17.3	96/97	37.3	4151	3163	15820	2043	24.7	100/100
	13600	43.1	4953	3842	19215	1596	12.0	95/96	42.9	4953	3818	19094	1718	15.3	96/97	42.2	4953	3735	18680	1952	22.5	99/100							
	15800	48.5	5754	4467	22340	1818	17.5	99/100	48.4	5754	4455	22280	1923	21.4	100/101														
	18000	53.9	6555	5091	25461	2043	24.7	102/103																					
245QMXVP24H	11800	38.3	3900	2764	19535	1367	7.20	92/92	37.7	3900	2713	19175	1506	10.1	93/93	37.0	3900	2639	18655	1765	16.4	96/96	35.6	3900	2508	17731	2007	23.5	100/100
	13500	42.4	4461	3169	22401	1525	9.84	95/95	42.0	4461	3134	22152	1649	13.0	96/96	41.1	4461	3044	21519	1882	20.0	98/98							
	15200	46.5	5023	3571	25245	1687	13.2	97/98	46.3	5023	3549	25084	1799	16.6	99/99	45.4	5023	3466	24498	2011	24.2	101/100							
	16900	50.6	5585	3973	28086	1851	17.2	100/100	50.5	5585	3959	27987	1953	21.0	101/101														
	18600	54.7	6147	4374	30919	2017	22.1	103/103																					
245QMXVP24L	12600	37.1	3268	2651	18741	1353	6.63	92/93	36.5	3268	2595	18345	1489	9.39	94/94	35.9	3268	2535	17919	1734	15.6	96/96	35.7	3268	2518	17802	1974	22.8	99/100
	14500	41.3	3760	3063	21654	1518	9.12	95/96	40.8	3760	3015	21310	1638	12.2	97/97	40.2	3760	2950	20854	1859	18.9	99/99							
	16400	45.5	4253	3471	24536	1687	12.3	98/99	45.2	4253	3438	24303	1794	15.7	99/100	44.4	4253	3361	23759	1997	23.0	101/101							
	18300	49.6	4746	3878	27409	1859	16.1	101/102	49.4	4746	3856	27258	1955	19.9	102/102														
	20200	53.8	5239	4283	30276	2033	20.8	104/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 270 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP							
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM				
270QMXVP15L	4700	27.0	3062	2571	6980	986	3.62	88/87																						
	6500	33.2	4235	3534	9594	1196	6.72	93/92	33.1	4235	3534	9593	1377	9.84	97/95															
	8300	39.3	5407	4506	12234	1423	11.7	96/96	39.5	5407	4538	12319	1586	15.4	100/99	36.9	5407	4130	11211	1847	23.6	105/103								
	10100	45.6	6580	5495	14917	1665	19.0	100/100	45.5	6580	5481	14880	1803	23.3	103/102															
	11900	51.8	7752	6479	17588	1913	29.0	103/104																						
270QMXVP18H	6400	30.7	3002	2618	10315	1130	5.74	91/90	30.3	3002	2563	10097	1319	8.68	96/94															
	8000	35.9	3752	3304	13017	1309	9.23	94/93	35.4	3752	3238	12755	1486	12.8	98/97															
	9600	41.2	4503	3986	15701	1503	14.2	96/97	40.8	4503	3943	15531	1658	18.3	100/100	40.1	4503	3842	15134	1920	27.0	106/104								
	11200	46.4	5253	4668	18389	1707	21.0	99/101	46.1	5253	4625	18221	1839	25.5	103/103															
	12800	51.7	6004	5354	21090	1918	29.8	102/104																						
270QMXVP18L	7100	29.9	2972	2516	9909	978	4.10	85/86																						
	9300	36.1	3893	3330	13119	1160	7.08	88/90	35.8	3893	3286	12945	1328	10.1	93/92	35.2	3893	3206	12630	1639	17.4	101/99								
	11500	42.3	4815	4132	16278	1357	11.5	92/94	42.0	4815	4098	16145	1500	15.1	94/96	41.5	4815	4035	15895	1766	23.0	101/100								
	13700	48.4	5736	4926	19406	1565	17.6	96/98	48.3	5736	4911	19345	1688	21.9	97/99															
	15900	54.5	6657	5719	22530	1779	25.9	99/102																						
270QMXVP21H	7800	32.5	3707	2538	12690	1089	5.83	86/87	32.6	3707	2553	12769	1287	8.84	93/93	33.1	3707	2607	13037	1593	15.8	101/100								
	9600	37.8	4563	3157	15787	1257	9.15	90/91	37.2	4563	3088	15441	1417	12.5	94/94	38.3	4563	3209	16049	1720	20.4	102/101	38.3	4563	3212	16062	1953	29.2	106/106	
	11400	43.1	5418	3769	18848	1435	13.7	93/95	42.6	5418	3717	18589	1573	17.6	96/96	42.5	5418	3708	18543	1844	26.3	103/102								
	13200	48.3	6274	4377	21891	1618	19.8	96/98	47.9	6274	4336	21685	1741	24.3	98/99															
	15000	53.5	7129	4987	24939	1807	27.7	99/101																						
270QMXVP21L	9200	33.0	3350	2593	12970	1039	5.19	84/86	32.8	3350	2570	12852	1210	7.98	90/90	33.7	3350	2680	13405	1539	14.8	98/98	35.4	3350	2875	14377	1808	22.7	103/105	
	11500	38.7	4188	3265	16331	1215	8.29	89/91	38.5	4188	3239	16200	1361	11.6	92/93	37.8	4188	3153	15768	1628	18.9	98/98	39.2	4188	3325	16628	1893	27.8	103/104	
	13800	44.5	5025	3938	19693	1403	12.7	93/95	44.2	5025	3897	19488	1528	16.5	95/96	44.0	5025	3880	19404	1761	24.8	100/100								
	16100	50.2	5863	4601	23008	1598	18.6	97/99	50.0	5863	4570	22853	1705	22.9	98/99															
	18400	55.9	6701	5263	26319	1798	26.4	100/102																						
270QMXVP24H	11200	37.1	3701	2615	18484	1125	6.47	88/89	36.4	3701	2547	18005	1272	9.43	91/91	36.1	3701	2514	17772	1553	16.5	96/97								
	13600	43.0	4494	3196	22590	1303	9.93	92/93	42.5	4494	3147	22243	1432	13.4	94/94	41.6	4494	3058	21617	1667	20.9	98/97								
	16000	48.9	5288	3771	26659	1490	14.6	96/97	48.6	5288	3737	26415	1602	18.7	97/98	47.6	5288	3643	25750	1809	27.1	100/100								
	18400	54.8	6081	4346	30718	1681	20.8	99/100	54.5	6081	4320	30536	1780	25.4	100/101															
	20800	60.7	6874	4919	34772	1876	28.7	102/103																						
270QMXVP24L	12700	37.3	3294	2632	18606	1133	6.52	89/90	36.8	3294	2587	18286	1271	9.58	91/91															
	15200	42.8	3942	3167	22385	1303	9.70	93/94	42.3	3942	3124	22080	1423	13.2	94/95	41.8	3942	3078	21760	1645	21.0	97/97	40.7	3942	2968	20978	1854	29.6	100/102	
	17700	48.2	4590	3695	26121	1480	13.9	96/97	47.9	4590	3667	25919	1585	17.9	97/98	47.2	4590	3603	25470	1782	26.4	100/100								
	20200	53.5	5239	4222	29841	1661	19.4	99/101	53.3	5239	4203	29707	1753	23.8	100/101															
	22700	58.9	5887	4747	33553	1844	26.3	102/103																						
270QMXVP27H	13500	38.9	3714	2529	21250	1231	8.29	91/92	38.7	3714	2514	21127	1364	11.7	93/93	39.2	3714	2557	21486	1603	19.0	96/97	38.9	3714	2528	21240	1830	27.4	100/100	
	15600	43.5	4292	2944	24740	1383	11.6	94/95	43.0	4292	2900	24369	1500	15.4	95/96	43.5	4292	2941	24709	1717	23.6	98/99								
	17700	48.2	4869	3362	28250	1540	15.8	97/98	47.5	4869	3303	27758	1643	19.9	98/99	47.6	4869	3309	27806	1842	29.0	100/101								
	19800	52.9	5447	3779	31755	1700	21.0	100/101	52.2	5447	3717	31232	1792	25.5	101/101															
	21900	57.5	6025	4195	35245	1861	27.4	102/103																						
270QMXVP27L	16900	41.6	3477	2774	23312	1330	10.0	94/96	41.2	3477	2735	22978	1440	13.5	95/97	40.5	3477	2675	22479	1651	21.4	98/99								
	19200	45.9	3950	3153	26496	1482	13.5	97/98	45.7	3950	3134	26337	1580	17.5	98/99	44.8	3950	3060	25709	1769	25.9	100/101								
	21500	50.1	4423	3530	29664	1637	17.9	100/101	50.0	4423	3525	29621	1726	22.3	101/102															
	23800	54.3	4896	3906	32823	1793	23.3	102/103	54.3	4896	3907	32831	1874	28.0	103/104															
	26100	58.5	5369	4282	35983	1951	29.7	104/106																						

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub>A sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

QMXVP Performance Data

300 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							5.00 SP							
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM				
300QMXVP1-8H	6200	31.3	2908	2540	10005	1046	6.86	93/92	31.2	2908	2525	9947	1175	10.1	96/95	31.2	2908	2521	9929	1287	13.6	99/98	31.5	2908	2564	10101	1484	21.6	103/102	
	7300	34.9	3424	3002	11824	1181	9.74	96/95	34.7	3424	2982	11746	1303	13.6	99/98	34.6	3424	2971	11704	1406	17.4	101/100	34.7	3424	2978	11731	1590	25.9	105/104	
	8400	38.5	3940	3471	13673	1316	13.4	100/98	38.2	3940	3438	13544	1435	17.8	102/101	38.1	3940	3428	13502	1532	22.2	104/102								
	9500	42.1	4456	3944	15535	1453	18.0	103/101	41.7	4456	3898	15355	1569	23.0	105/103															
	10600	45.7	4972	4413	17384	1590	23.7	105/104																						
300QMXVP1-8L	8400	33.7	3517	2850	11226	1013	7.11	92/91																						
	10200	39.1	4270	3553	13995	1135	10.6	93/93																						
	12000	44.1	5024	4205	16566	1267	15.3	95/97	43.1	5024	4077	16062	1439	20.5	101/101															
	13800	49.0	5777	4840	19065	1405	21.4	98/100	48.6	5777	4788	18860	1561	27.3	103/102															
	15600	53.8	6531	5472	21554	1550	29.0	101/103																						
300QMXVP21-H	8400	35.9	3992	2737	13686	1102	8.33	95/94																						
	9800	40.0	4658	3220	16102	1211	11.6	97/96																						
	11200	44.0	5323	3683	18417	1327	15.9	99/98																						
	12600	47.9	5989	4135	20680	1448	21.2	101/100	47.8	5989	4120	20602	1613	26.7	106/104															
	14000	51.8	6654	4588	22947	1573	27.6	103/103																						
300QMXVP21-L	9200	34.2	3350	2549	12749	934	6.15	87/87																						
	11400	39.9	4151	3206	16035	1065	9.50	89/91	39.1	4151	3111	15559	1238	13.8	94/95															
	13600	45.3	4953	3836	19183	1203	13.9	92/94	44.9	4953	3783	18920	1355	19.0	97/97	44.2	4953	3703	18518	1500	24.2	100/101								
	15800	50.6	5754	4455	22280	1349	19.8	95/98	50.5	5754	4440	22207	1487	25.8	99/100															
	18000	55.9	6555	5072	25365	1501	27.4	98/101																						
300QMXVP24-H	11200	37.4	3701	2525	17849	968	7.36	87/88								37.9	3701	2567	18148	1332	16.4	99/99								
	13400	42.9	4428	3063	21649	1092	10.7	90/91	42.2	4428	2991	21143	1244	15.3	95/95	42.2	4428	2994	21164	1396	20.4	99/99								
	15600	48.3	5155	3591	25384	1224	15.1	93/95	47.5	5155	3513	24832	1356	20.2	96/97	47.2	5155	3476	24574	1485	25.8	100/101								
	17800	53.6	5882	4107	29033	1361	20.7	96/98	53.0	5882	4050	28628	1477	26.3	99/100															
	20000	58.8	6609	4618	32646	1502	27.8	99/102																						
300QMXVP24-L	12500	37.8	3242	2559	18091	939	6.74	86/87																						
	15300	43.8	3968	3149	22261	1081	10.2	90/92	43.2	3968	3090	21841	1218	14.7	93/94	42.0	3968	2973	21016	1351	19.8	96/97								
	18100	49.8	4694	3730	26366	1233	15.0	94/96	49.6	4694	3710	26226	1349	20.0	96/97	48.8	4694	3637	25706	1465	25.5	98/99								
	20900	55.7	5420	4306	30436	1390	21.4	97/99	55.6	5420	4299	30391	1490	26.8	99/101															
	23700	61.6	6146	4883	34515	1551	29.5	101/103																						
300QMXVP27-H	13200	40.8	3631	2550	21425	1022	8.58	88/89	40.2	3631	2501	21012	1174	12.7	92/93	40.8	3631	2549	21416	1330	17.5	96/96								
	15400	45.6	4237	2982	25057	1144	12.0	91/93	45.2	4237	2948	24772	1277	16.6	94/95	44.9	4237	2917	24514	1406	21.7	97/98								
	17600	50.4	4842	3408	28635	1271	16.4	94/96	50.2	4842	3393	28513	1389	21.5	96/97	49.7	4842	3351	28158	1503	27.0	99/99								
	19800	55.1	5447	3832	32199	1402	22.0	97/99	55.1	5447	3829	32175	1507	27.5	99/100															
	22000	59.9	6052	4257	35768	1535	28.7	100/102																						
300QMXVP27-L	15800	41.1	3250	2577	21655	1024	8.54	89/90	40.5	3250	2520	21174	1158	12.8	91/93							40.5	3250	2520	21175	1530	27.8			101/101
	18300	45.6	3765	2983	25068	1146	11.8	92/94	45.5	3765	2969	24946	1264	16.4	94/96	44.7	3765	2897	24344	1376	21.5	96/98								
	20800	50.1	4279	3388	28464	1272	15.8	95/97	50.2	4279	3391	28496	1376	20.9	97/98	49.7	4279	3349	28143	1478	26.5	98/100								
	23300	54.7	4793	3792	31863	1400	20.9	98/100	54.8	4793	3801	31941	1495	26.4	99/101															
	25800	59.2	5308	4197	35261	1531	27.0	101/103																						
300QMXVP30-H	17900	46.1	3965	2647	29240	1130	11.8	92/95	45.7	3965	2616	28890	1248	16.4	94/97	45.3	3965	2583	28530	1365	21.5	96/100								
	19900	49.9	4408	2949	32568	1231	15.0	94/97	49.6	4408	2921	32257	1337	20.0	96/99	49.2	4408	2895	31975	1444	25.5	98/101								
	21900	53.7	4850	3246	35853	1334	19.0	97/100	53.5	4850	3226	35629	1431	24.2	98/101															
	23900	57.5	5293	3544	39140	1437	23.5	99/102	57.4	5293	3530	38988	1528	29.2	100/103															
	25900	61.3	5736	3841	42426	1543	29.0	101/104																						
300QMXVP30-L	20500	46.3	3532	2662	29401	1174	12.1	94/96	45.8	3532	2630	29042	1284	16.7	95/99	45.2	3532	2578	28475	1387	21.7	97/100								
	22800	50.1	3928	2965	32746	1282	15.4	96/99	49.8	3928	2941	32478	1382	20.5	98/101	49.3	3928	2902	32056	1478	25.9	99/102								
	25100	54.0	4325	3269	36101	1392	19.4	99/101	53.8	4325	3248	35874	1483	24.9	100/103															
	27400	57.9	4721	3572	39456	1504	24.2	101/104																						
	29700	61.8	5117	3876	42804	1617	29.8	103/106																						

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown

# QMXVP Performance Data

## 330 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							5.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
330QMXVP24H	11000	38.4	3635	2515	17779	864	8.04	88/89																					
	13700	44.9	4527	3149	22258	992	12.6	91/92	44.6	4527	3121	22060	1139	17.9	95/95														
	16400	51.5	5420	3794	26818	1129	18.9	94/96	51.0	5420	3753	26531	1261	25.3	97/99	50.8	5420	3731	26374	1378	31.5	101/101							
	19100	58.0	6312	4433	31338	1274	27.3	97/100	57.5	6312	4387	31012	1389	34.6	100/102														
	21800	64.5	7204	5069	35831	1423	38.3	100/103																					
330QMXVP24L	12900	39.7	3345	2643	18679	842	7.95	86/88	38.3	3345	2507	17724	1002	12.5	91/92	38.9	3345	2571	18171	1160	18.0	97/97							
	16100	46.8	4175	3339	23599	975	12.5	89/92	45.9	4175	3246	22943	1108	17.8	93/94	44.7	4175	3134	22154	1236	23.7	97/97	45.4	4175	3202	22631	1486	37.3	105/104
	19300	53.7	5005	4008	28333	1118	18.8	93/96	53.3	5005	3972	28077	1233	25.1	95/98	52.3	5005	3877	27408	1342	31.5	98/100							
	22500	60.4	5835	4667	32992	1267	27.3	96/100	60.4	5835	4665	32972	1368	34.4	98/101														
	25700	67.1	6665	5326	37644	1420	38.4	100/103																					
330QMXVP27H	13100	41.2	3604	2546	21390	895	9.27	87/88																					
	15800	46.8	4347	3045	25582	1014	13.7	90/92	46.9	4347	3055	25671	1151	19.3	94/95	46.3	4347	2997	25184	1279	25.1	99/98							
	18500	52.4	5089	3545	29783	1140	19.7	93/95	53.0	5089	3595	30208	1265	26.2	96/97	52.6	5089	3563	29935	1375	32.6	100/100							
	21200	58.1	5832	4055	34069	1274	27.5	96/99	58.6	5832	4097	34421	1383	34.7	98/100														
	23900	63.9	6575	4572	38414	1411	37.4	99/102																					
330QMXVP27L	15800	41.8	3250	2596	21814	867	8.73	86/88	41.1	3250	2532	21277	1005	13.6	90/91														
	19300	48.3	3970	3173	26662	1003	13.4	90/92	48.0	3970	3153	26492	1117	18.7	93/94	47.4	3970	3092	25985	1230	24.8	96/97	46.2	3970	2987	25097	1442	38.1	102/101
	22800	54.6	4690	3742	31445	1146	19.8	94/96	54.7	4690	3748	31495	1243	25.7	96/98	54.3	4690	3714	31207	1340	32.3	98/99							
	26300	60.9	5410	4309	36209	1293	28.2	97/100	61.1	5410	4325	36341	1379	34.9	99/101														
	29800	67.3	6130	4877	40980	1444	39.0	101/103																					
330QMXVP30H	17400	45.4	3854	2549	28148	931	11.1	88/91	44.9	3854	2517	27800	1059	16.2	91/93	44.8	3854	2504	27658	1181	22.1	94/96	45.6	3854	2570	28389	1413	34.9	103/102
	20000	50.5	4430	2948	32558	1035	15.3	91/94	49.8	4430	2896	31984	1146	20.8	93/95	49.7	4430	2891	31931	1256	26.9	96/98							
	22600	55.4	5006	3336	36847	1142	20.4	94/97	54.8	5006	3290	36336	1240	26.4	96/98	54.6	5006	3269	36103	1339	33.0	98/100							
	25200	60.3	5581	3719	41072	1252	26.7	97/99	60.0	5581	3695	40809	1340	33.2	98/100														
	27800	65.2	6157	4099	45276	1363	34.3	99/102																					
330QMXVP30L	19900	46.1	3429	2605	28768	938	10.8	90/92	45.9	3429	2589	28590	1054	15.9	93/94	45.1	3429	2531	27950	1163	21.6	97/96							
	23400	51.9	4032	3059	33789	1063	15.5	93/95	52.0	4032	3067	33876	1165	21.1	95/97	51.5	4032	3031	33482	1261	27.3	98/98							
	26900	57.7	4635	3517	38848	1194	21.5	96/98	57.8	4635	3522	38903	1283	27.8	97/100	57.8	4635	3521	38885	1370	34.6	99/101							
	30400	63.6	5238	3978	43938	1327	29.2	99/102	63.6	5238	3976	43913	1406	36.2	100/103														
	33900	69.5	5841	4441	49045	1463	38.7	102/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WA}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 365 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							5.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
365QMXVP27H	14700	42.9	4044	2537	21317	806	11.0	88/90	43.4	4044	2588	21748	967	17.0	96/95														
	17700	48.5	4869	3040	25542	912	16.4	91/93	48.6	4869	3052	25648	1042	23.0	95/96	49.5	4869	3133	26323	1179	30.5	102/100							
	20700	54.1	5695	3540	29747	1025	23.5	94/96	54.4	5695	3573	30018	1138	31.0	97/98	54.4	5695	3574	30031	1249	39.1	101/100							
	23700	59.7	6520	4043	33973	1143	32.8	96/99	60.1	6520	4077	34260	1241	41.0	99/101	60.2	6520	4089	34357	1339	49.9	102/103							
	26700	65.3	7345	4551	38237	1264	44.5	99/102																					
365QMXVP27L	16600	42.5	3415	2506	21055	758	9.52	86/87																					
	20700	49.7	4258	3147	26443	883	15.1	90/91	49.3	4258	3110	26129	994	21.4	93/93	49.1	4258	3092	25981	1099	28.2	95/96							
	24800	56.7	5102	3777	31734	1016	23.0	93/96	56.4	5102	3752	31524	1112	30.1	96/97	56.1	5102	3722	31276	1202	37.7	98/98							
	28900	63.6	5945	4398	36956	1155	33.6	97/99	63.6	5945	4392	36907	1237	41.6	98/100														
	33000	70.6	6789	5019	42169	1296	47.3	100/103																					
365QMXVP30H	18200	46.0	4031	2511	27728	815	11.9	88/89	46.0	4031	2509	27710	937	17.5	91/92														
	21800	52.3	4828	3004	33177	929	17.5	91/93	52.4	4828	3011	33252	1035	24.1	94/95	52.3	4828	3002	33156	1136	31.1	96/97	52.6	4828	3021	33364	1340	47.0	102/101
	25400	58.7	5626	3500	38652	1048	25.1	95/97	58.7	5626	3504	38695	1143	32.7	97/98	58.8	5626	3508	38750	1231	40.4	98/99							
	29000	65.0	6423	3996	44132	1171	34.8	97/100	65.0	6423	3997	44151	1255	43.3	99/101														
	32600	71.4	7220	4493	49619	1297	47.1	100/103																					
365QMXVP30L	20800	46.4	3584	2539	28041	809	11.4	88/89	46.1	3584	2512	27745	921	17.1	91/93														
	24600	52.3	4238	3002	33152	918	16.5	92/93	52.3	4238	2998	33113	1015	22.8	94/95	51.8	4238	2964	32736	1108	29.8	96/98	51.8	4238	2960	32690	1288	45.4	100/99
	28400	58.2	4893	3465	38265	1030	23.1	95/96	58.3	4893	3467	38296	1116	30.0	96/98	58.1	4893	3454	38148	1199	37.6	98/100							
	32200	64.2	5548	3930	43410	1146	31.4	97/99	64.2	5548	3930	43402	1223	39.3	99/101	64.2	5548	3930	43409	1297	47.3	100/102							
	36000	70.2	6203	4398	48571	1263	41.6	100/102																					
365QMXVP36H	27200	57.8	3978	2515	45349	968	19.1	94/94	57.6	3978	2506	45186	1059	26.3	95/96	57.5	3978	2502	45127	1147	34.1	97/97							
	30100	62.4	4403	2784	50212	1052	24.3	96/97	62.3	4403	2776	50067	1136	31.9	97/98	62.2	4403	2770	49953	1216	40.3	98/99							
	33000	67.1	4827	3054	55072	1138	30.6	98/99	66.9	4827	3047	54942	1215	38.5	99/100	66.8	4827	3040	54816	1289	47.4	100/100							
	35900	71.7	5251	3323	59931	1224	37.9	100/101	71.6	5251	3318	59830	1297	46.3	101/101														
	38800	76.3	5675	3593	64798	1312	46.5	102/103																					
365QMXVP36L	34500	60.8	3866	2693	48564	1064	24.7	97/99	59.7	3866	2628	47396	1139	31.9	98/99	58.5	3866	2560	46172	1211	39.5	99/100							
	36800	64.0	4124	2877	51885	1125	29.0	99/100	63.1	4124	2824	50931	1196	36.6	100/101	61.9	4124	2753	49647	1264	44.5	101/101							
	39100	67.2	4381	3061	55201	1186	33.7	100/101	66.4	4381	3018	54426	1255	41.9	101/102														
	41400	70.3	4639	3244	58498	1248	39.0	102/103	69.7	4639	3209	57868	1313	47.6	102/103														
	43700	73.5	4897	3427	61791	1310	44.9	103/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WA}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.



# QMXVP Performance Data

## 402 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							5.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
402QMXVP27L	15800	43.7	3250	2557	21484	706	11.0	88/88	44.8	3250	2654	22297	866	17.8	95/95														
	19800	50.6	4073	3173	26659	808	17.2	91/92	51.2	4073	3228	27123	940	25.2	96/96	52.0	4073	3297	27703	1064	33.7	101/100							
	23800	57.6	4896	3802	31944	922	26.2	94/96	58.0	4896	3837	32238	1033	34.9	98/99	58.6	4896	3884	32634	1141	44.9	102/102							
	27800	64.7	5719	4431	37227	1043	38.3	98/100	64.9	5719	4455	37436	1137	47.9	100/101	65.4	5719	4494	37757	1233	58.8	103/104							
	31800	71.7	6542	5060	42517	1167	53.9	100/104																					
402QMXVP30H	17500	47.5	3876	2531	27958	753	13.5	89/89	47.5	3876	2530	27941	888	20.4	96/95														
	21100	53.9	4673	3032	33486	851	20.0	92/93	54.3	4673	3066	33864	976	28.3	97/97	54.1	4673	3048	33660	1081	36.7	101/99							
	24700	60.4	5471	3539	39091	957	28.8	95/97	60.8	5471	3573	39465	1064	38.1	98/99	61.0	5471	3589	39636	1167	47.9	102/102							
	28300	66.9	6268	4050	44731	1068	40.3	98/101	67.2	6268	4073	44983	1160	50.4	100/102														
	31900	73.5	7065	4564	50404	1181	54.7	101/104																					
402QMXVP30L	20100	47.4	3463	2520	27830	721	12.4	88/88	47.3	3463	2513	27760	849	19.3	92/92	47.3	3463	2514	27770	966	27.0	99/97							
	24500	54.3	4221	3067	33869	826	18.7	92/93	54.4	4221	3070	33911	933	26.6	95/95	54.3	4221	3064	33836	1038	35.3	98/97	54.5	4221	3078	33994	1227	54.4	107/104
	28900	61.3	4979	3612	39896	936	27.2	95/97	61.5	4979	3623	40015	1031	36.3	97/98	61.4	4979	3621	39994	1119	45.8	100/100							
	33300	68.3	5737	4162	45965	1052	38.5	98/101	68.4	5737	4169	46041	1135	48.5	100/101	68.5	5737	4175	46112	1215	59.2	102/102							
	37700	75.4	6496	4712	52044	1171	52.9	101/104																					
402QMXVP36H	28200	59.9	4125	2596	46812	845	21.5	91/92	59.3	4125	2561	46178	936	29.4	93/94	58.9	4125	2539	45778	1023	37.7	96/96	58.5	4125	2517	45382	1198	57.2	101/101
	31600	65.4	4622	2917	52596	926	28.1	94/95	64.8	4622	2881	51946	1008	36.7	95/96	64.4	4622	2861	51599	1088	45.9	97/98							
	35000	70.9	5119	3235	58335	1008	36.0	96/97	70.4	5119	3205	57800	1083	45.4	98/98	69.9	5119	3179	57328	1156	55.4	99/100							
	38400	76.3	5616	3551	64044	1091	45.5	98/100	76.0	5616	3530	63664	1161	55.7	100/101														
	41800	81.8	6114	3869	69761	1176	56.7	100/102																					
402QMXVP36L	33400	60.6	3743	2640	47606	850	20.8	93/94	59.7	3743	2584	46595	933	28.5	94/95	58.4	3743	2509	45244	1012	37.1	96/96	58.6	3743	2520	45437	1153	55.4	99/100
	37400	66.2	4191	2961	53402	932	27.1	96/97	65.6	4191	2927	52783	1007	35.4	97/98	64.3	4191	2855	51487	1081	44.7	98/99							
	41400	71.6	4639	3279	59132	1016	34.6	98/99	71.3	4639	3259	58772	1085	43.8	99/100	70.4	4639	3208	57845	1152	53.6	100/101							
	45400	77.1	5087	3597	64861	1101	43.6	100/102	76.9	5087	3586	64666	1164	53.6	101/102														
	49400	82.6	5536	3914	70579	1188	54.3	102/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 445 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							5.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
445QMXVP30H	19400	49.4	4297	2565	28326	675	15.7	90/90																					
	23500	55.8	5205	3063	33831	761	23.5	92/94	57.2	5205	3179	35113	882	33.5	99/98														
	27600	62.7	6113	3602	39785	856	34.2	95/98	63.2	6113	3646	40270	958	44.9	100/100	64.5	6113	3745	41367	1058	57.4	104/103							
	31700	69.5	7021	4140	45728	955	48.1	98/101	69.5	7021	4135	45672	1042	59.8	101/102	70.7	7021	4230	46715	1134	73.1	105/105							
	35800	76.3	7929	4672	51599	1057	65.6	101/104																					
445QMXVP30L	21600	49.2	3722	2547	28129	634	14.1	87/88	50.2	3722	2629	29036	763	22.6	93/92														
	26900	56.8	4635	3142	34703	733	22.4	91/93	57.4	4635	3191	35248	836	31.6	95/95	58.4	4635	3266	36068	940	42.5	99/98							
	32200	64.4	5548	3739	41293	839	33.8	94/97	65.0	5548	3788	41840	927	44.6	97/99	65.5	5548	3825	42243	1012	55.8	100/100							
	37500	72.1	6461	4342	47952	949	49.0	98/101	72.6	6461	4381	48390	1026	61.4	100/102	73.1	6461	4421	48831	1100	73.9	102/103							
	42800	79.9	7374	4949	54658	1062	68.7	101/105																					
445QMXVP36H	27400	59.9	4008	2520	45451	696	20.1	89/90	59.9	4008	2518	45409	794	28.8	93/93	60.6	4008	2556	46092	891	38.7	97/97	61.6	4008	2618	47205	1073	61.8	105/104
	31800	67.3	4651	2949	53187	778	28.3	92/93	66.6	4651	2907	52421	862	37.7	95/95	67.1	4651	2933	52899	947	48.3	98/98	68.1	4651	2996	54031	1114	72.8	104/104
	36200	74.6	5295	3374	60836	864	38.9	95/96	73.7	5295	3318	59833	938	49.1	97/98	73.6	5295	3315	59773	1012	60.4	99/100							
	40600	81.8	5938	3788	68314	951	51.8	98/99	81.1	5938	3746	67551	1018	63.2	99/100														
	45000	88.9	6582	4201	75752	1039	67.5	100/102																					
445QMXVP36L	33000	60.9	3698	2574	46408	688	19.5	90/91	59.9	3698	2520	45436	777	28.1	92/93	59.6	3698	2503	45141	858	37.8	94/95	60.6	3698	2559	46150	1019	59.5	99/101
	38000	67.8	4258	2974	53627	767	26.8	93/94	67.0	4258	2932	52870	845	36.2	95/96	66.3	4258	2891	52140	920	46.7	97/98	66.3	4258	2891	52142	1057	70.0	100/101
	43000	74.5	4818	3368	60735	848	35.8	96/97	74.1	4818	3342	60266	918	46.3	98/99	73.4	4818	3299	59494	986	57.5	99/100							
	48000	81.3	5379	3762	67840	931	46.9	99/100	81.0	5379	3745	67540	994	58.6	100/101	80.5	5379	3712	66935	1056	70.6	101/102							
	53000	88.1	5939	4156	74939	1016	60.5	101/103	88.0	5939	4146	74773	1073	73.3	102/104														

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 490 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							5.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
490QMXV/P36H	28100	62.1	4110	2549	45974	637	23.2	90/90	61.4	4110	2512	45303	736	33.5	95/95	62.9	4110	2599	46871	830	45.3	100/99	63.0	4110	2605	46973	977	71.2	105/106
	33500	70.9	4900	3061	55192	723	34.4	93/94	69.9	4900	3002	54133	807	46.1	97/96	69.9	4900	3006	54209	891	58.9	101/100	71.8	4900	3113	56140	1036	87.4	107/106
	38900	79.6	5690	3569	64365	813	49.3	96/97	78.9	5690	3526	63576	887	62.5	99/99	77.9	5690	3470	62581	959	76.6	102/101							
	44300	88.4	6479	4076	73500	906	68.5	99/101	87.7	6479	4038	72810	972	83.2	101/102	87.0	6479	3995	72046	1036	98.7	103/103							
	49700	97.1	7269	4583	82637	1001	92.6	102/104																					
490QMXV/P36L	33000	62.7	3698	2586	46640	606	20.3	88/90	62.5	3698	2577	46464	695	30.2	93/93	61.4	3698	2510	45265	778	40.7	97/97	64.5	3698	2691	48530	943	66.6	103/104
	40000	72.5	4482	3155	56896	698	30.9	92/94	72.0	4482	3125	56354	775	42.3	95/96	71.9	4482	3121	56286	847	54.5	98/98	70.7	4482	3053	55060	985	80.9	103/103
	47000	82.2	5267	3720	67083	795	45.5	96/98	81.6	5267	3684	66434	861	58.2	98/99	81.4	5267	3672	66216	926	72.1	100/101							
	54000	91.9	6051	4280	77175	894	64.2	99/101	91.4	6051	4254	76715	952	78.5	101/102	90.9	6051	4225	76190	1010	93.9	102/103							
	61000	102	6835	4839	87261	997	88.6	103/105																					
490QMXV/P49H	49900	74.4	4168	2542	79021	744	35.6	95/96	73.6	4168	2507	77944	811	48.0	97/97	74.0	4168	2523	78445	873	60.8	99/99	74.7	4168	2555	79433	989	88.1	102/102
	55900	81.6	4669	2864	89038	818	46.7	98/99	80.5	4669	2815	87521	878	60.1	100/100	80.5	4669	2811	87401	936	74.4	101/101							
	61900	88.9	5170	3186	99057	894	60.4	101/102	87.7	5170	3132	97375	948	74.7	102/102	87.2	5170	3110	96700	1001	90.0	103/103							
	67900	96.1	5671	3508	109056	971	76.9	103/104	94.9	5671	3453	107346	1020	92.1	104/105														
	73900	103	6172	3829	119048	1049	96.4	105/106																					
490QMXV/P49L	62200	79.3	3885	2761	85834	805	42.8	99/100	78.9	3885	2742	85250	860	55.6	100/101	77.9	3885	2699	83927	913	68.8	101/102	77.1	3885	2661	82733	1017	98.6	103/104
	68200	85.3	4260	3027	94096	872	53.7	101/102	85.1	4260	3019	93859	923	67.7	102/103	84.3	4260	2983	92732	972	81.8	103/104							
	74200	91.3	4635	3292	102357	940	66.4	103/104	91.3	4635	3291	102329	987	81.6	104/105	90.7	4635	3265	101513	1033	96.8	105/106							
	80200	97.2	5009	3558	110609	1009	81.4	105/107	97.3	5009	3559	110654	1053	97.5	106/107														
	86200	103	5384	3823	118842	1078	98.5	107/109																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WO}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 540 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							4.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
540QMXVP36H	29000	65.1	4242	2630	47435	635	30.8	97/96																					
	33000	71.6	4827	3010	54272	690	41.1	99/98																					
	37000	77.9	5412	3373	60824	747	53.8	101/100																					
	41000	84.1	5997	3731	67289	807	69.3	103/102	83.8	5997	3719	67061	898	87.1	107/106														
	45000	90.2	6582	4090	73762	868	87.7	104/104																					
540QMXVP36L	34000	65.3	3810	2641	47618	561	25.9	90/91																					
	40000	73.6	4482	3127	56391	624	36.5	93/94	72.4	4482	3057	55128	714	51.2	97/97														
	46000	81.7	5155	3597	64866	690	49.8	95/97	81.1	5155	3561	64220	772	67.0	99/100	79.9	5155	3491	62950	848	84.0	102/103							
	52000	89.8	5827	4067	73331	759	66.7	98/100	89.6	5827	4055	73127	835	86.5	101/102														
	58000	97.9	6499	4533	81738	830	87.5	100/103																					
540QMXVP49H	48600	76.5	4059	2542	79042	623	36.7	93/94	75.7	4059	2509	78016	698	51.3	96/96								76.5	4059	2545	79140	849	85.4	102/102
	54600	83.6	4560	2858	88865	682	48.1	95/97	83.2	4560	2840	88307	750	64.0	97/98	82.3	4560	2801	87091	816	81.3	100/101							
	60600	90.6	5061	3171	98572	742	61.7	98/99	90.4	5061	3164	98369	804	78.9	99/101	89.7	5061	3133	97411	864	97.4	101/102							
	66600	97.6	5563	3484	108303	804	78.2	100/102	97.6	5563	3484	108311	860	96.6	101/103														
	72600	105	6064	3796	118029	867	97.7	102/104																					
540QMXVP49L	58500	77.3	3654	2578	80160	630	37.0	94/95	76.9	3654	2562	79660	696	51.9	96/97	75.5	3654	2500	77710	759	68.1	98/99							
	65500	84.1	4091	2884	89665	690	47.9	97/98	84.2	4091	2885	89688	750	64.2	98/100	83.2	4091	2840	88311	808	81.8	100/101							
	72500	91.0	4528	3190	99175	751	61.1	99/101	91.2	4528	3196	99362	806	78.7	100/102	90.8	4528	3178	98819	859	97.5	102/103							
	79500	97.9	4966	3496	108688	814	77.2	101/103	98.1	4966	3505	108959	864	95.8	103/104														
	86500	105	5403	3802	118210	877	95.8	103/105																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXVP Performance Data

## 600 QMXVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP						3.00 SP						4.00 SP								
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
600QMXVP49H	48300	78.4	4034	2526	78544	529	38.5	91/92	77.9	4034	2506	77898	607	55.3	96/96														
	55300	86.2	4619	2873	89315	581	51.6	94/95	86.8	4619	2900	90170	654	70.9	97/98	85.6	4619	2849	88561	720	90.6	101/101	85.0	4619	2821	87691	787	113	104/104
	62300	94.1	5203	3226	100283	637	68.4	96/98	95.1	5203	3271	101681	704	89.8	99/100	94.6	5203	3248	100995	764	112	102/102							
	69300	102	5788	3582	111368	694	88.5	99/101	103	5788	3621	112592	755	112	101/102														
	76300	110	6373	3944	122628	753	113	101/103																					
600QMXVP49L	58500	80.0	3654	2600	80825	517	36.7	91/92	79.2	3654	2563	79676	585	53.4	94/95	78.1	3654	2515	78190	651	72.6	98/98							
	67500	89.0	4216	2998	93196	576	50.3	94/96	88.8	4216	2990	92963	636	68.6	96/97	87.6	4216	2938	91347	695	89.3	99/100	86.8	4216	2902	90210	751	111	102/102
	76500	97.8	4778	3393	105478	638	67.9	97/99	98.0	4778	3399	105685	691	87.8	99/100	97.4	4778	3372	104828	743	109	100/101							
	85500	107	5340	3787	117727	701	89.4	100/102	107	5340	3800	118156	749	111	101/103														
	94500	116	5903	4181	129988	765	116	102/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

90 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							4.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
90QMXXHPV09H	1400	15.0	4361	2552	2421	4126	1.05	87/87	15.1	4361	2581	2449	4514	1.40	89/90	15.1	4361	2594	2462	4874	1.77	91/92	15.2	4361	2598	2465	5217	2.15	93/94
	1530	15.9	4766	2784	2642	4438	1.29	89/90	16.0	4766	2810	2666	4797	1.67	91/92	16.0	4766	2831	2686	5139	2.07	93/94	16.1	4766	2837	2692	5458	2.48	95/96
	1660	16.7	5171	3020	2865	4758	1.58	91/92	16.8	5171	3039	2884	5089	1.99	93/93	16.9	5171	3064	2908	5413	2.42	94/95							
	1790	17.6	5576	3256	3089	5082	1.92	93/94	17.7	5576	3269	3102	5386	2.35	94/95														
	1920	18.5	5981	3492	3314	5409	2.30	95/96																					
90QMXXHPV09L	1800	15.2	3777	2621	2487	4509	1.21	91/94	15.2	3777	2602	2469	4830	1.58	93/96	15.2	3777	2612	2479	5158	2.00 SP	94/98	15.2	3777	2609	2476	5462	2.43	96/100
	1900	15.8	3987	2773	2631	4727	1.38	92/96	15.7	3987	2748	2607	5029	1.76	94/98	15.7	3987	2755	2614	5341	2.19	96/99							
	2000	16.4	4196	2925	2776	4947	1.57	94/97	16.3	4196	2893	2745	5230	1.97	95/99														
	2100	17.0	4406	3078	2921	5168	1.77	95/99	16.8	4406	3040	2885	5434	2.18	96/100														
	2200	17.5	4616	3231	3066	5391	2.00 SP	97/100																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

## 120 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							5.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
120QMXHPVP09H	1500	15.9	4673	2666	2530	2748	1.46	84/84	15.9	4673	2649	2514	3108	2.01	87/86	15.8	4673	2632	2498	3445	2.60	91/89							
	1760	17.6	5483	3123	2964	3102	2.13	86/87	17.7	5483	3136	2976	3420	2.74	89/89	17.5	5483	3095	2937	3719	3.42	92/91							
	2020	19.4	6293	3585	3402	3468	2.99	89/89	19.4	6293	3593	3409	3752	3.69	91/91	19.4	6293	3594	3410	4023	4.42	94/93							
	2280	21.1	7103	4055	3847	3845	4.09	91/93	21.1	7103	4049	3842	4100	4.88	93/94														
	2540	22.9	7913	4527	4296	4228	5.44	94/95																					
120QMXHPVP09L	1900	15.8	3987	2621	2487	2594	1.27	83/84	15.7	3987	2615	2481	2927	1.83	85/86	15.5	3987	2562	2431	3241	2.44	87/88	15.4	3987	2532	2402	3811	3.77	93/92
	2270	17.8	4763	3163	3001	2981	1.92	86/87	17.6	4763	3116	2957	3259	2.52	87/89	17.6	4763	3126	2966	3537	3.22	89/90	17.1	4763	2992	2839	4050	4.71	93/93
	2640	19.8	5539	3708	3518	3381	2.79	88/91	19.6	5539	3639	3453	3621	3.45	90/92	19.5	5539	3625	3439	3861	4.20	91/93							
	3010	21.9	6316	4253	4036	3788	3.91	91/94	21.6	6316	4179	3965	4004	4.66	92/95	21.4	6316	4138	3927	4213	5.45	93/95							
	3380	23.9	7092	4800	4554	4202	5.32	94/97																					
120QMXHPVP12H	2500	19.9	4202	2747	4854	3187	2.32	87/89	19.8	4202	2717	4802	3454	3.01	88/91	19.6	4202	2682	4739	3700	3.67	90/92	19.2	4202	2606	4606	4160	5.11	94/95
	2740	21.3	4605	3012	5322	3441	2.90	89/92	21.2	4605	2991	5285	3690	3.65	90/93	21.0	4605	2958	5228	3923	4.40	92/94							
	2980	22.7	5008	3278	5792	3699	3.60	91/94	22.6	5008	3262	5765	3931	4.39	92/95	22.4	5008	3234	5714	4151	5.22	93/96							
	3220	24.0	5412	3544	6262	3961	4.41	92/96	24.0	5412	3532	6241	4178	5.24	94/96														
	3460	25.4	5815	3809	6732	4225	5.34	94/98																					
120QMXHPVP12L	3300	20.2	3426	2790	4931	3460	2.64	90/93	19.9	3426	2747	4854	3679	3.36	91/94	19.6	3426	2685	4744	3894	4.12	92/95							
	3500	21.0	3634	2961	5233	3643	3.06	92/94	20.9	3634	2929	5176	3853	3.82	92/95	20.5	3634	2866	5065	4054	4.60	93/96							
	3700	21.9	3842	3131	5534	3827	3.52	93/95	21.8	3842	3109	5493	4029	4.32	93/96	21.5	3842	3051	5391	4218	5.14	94/97							
	3900	22.8	4049	3302	5834	4012	4.03	94/97	22.7	4049	3284	5804	4205	4.88	95/97														
	4100	23.6	4257	3471	6133	4197	4.58	95/98																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WO}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

135 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP							
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM				
135QMXHPVP09H	1500	16.3	4673	2646	2511	2288	1.51	84/85	16.4	4673	2679	2542	2637	2.14	88/88															
	1850	18.4	5763	3217	3053	2643	2.41	87/89	18.7	5763	3289	3121	2977	3.22	91/91															
	2200	20.6	6854	3798	3604	3020	3.66	90/92	20.9	6854	3872	3674	3314	4.62	93/94	21.1	6854	3926	3725	3808	6.49	97/98								
	2550	22.8	7944	4388	4164	3410	5.32	94/95	23.0	7944	4440	4213	3667	6.41	96/97															
	2900	25.1	9034	4987	4732	3811	7.47	97/98																						
135QMXHPVP09L	1900	16.2	3987	2615	2481	2081	1.26	80/84	16.0	3987	2563	2432	2396	1.87	84/87															
	2400	18.8	5036	3319	3149	2454	2.10	85/89	18.7	5036	3290	3122	2737	2.85	87/91	18.4	5036	3197	3033	3207	4.43	92/95	18.2	5036	3140	2979	3650	6.20	96/98	
	2900	21.5	6085	4032	3826	2852	3.31	89/93	21.4	6085	3998	3794	3098	4.19	90/94	21.1	6085	3937	3736	3529	6.03	94/97								
	3400	24.2	7134	4753	4510	3267	4.99	92/96	24.0	7134	4702	4462	3475	5.96	93/97															
	3900	26.9	8183	5473	5193	3692	7.20	96/100																						
135QMXHPVP12H	2400	19.2	4034	2586	4569	2423	2.05	85/87	19.1	4034	2569	4540	2698	2.79	87/89	18.8	4034	2502	4422	3174	4.36	91/93								
	2800	21.4	4706	3018	5333	2736	2.96	88/90	21.4	4706	3013	5324	2981	3.78	89/91	21.1	4706	2959	5229	3420	5.60	93/95	20.8	4706	2905	5133	3810	7.45	96/98	
	3200	23.6	5378	3451	6098	3059	4.14	91/93	23.6	5378	3447	6092	3278	5.05	92/94	23.5	5378	3415	6034	3685	7.09	95/97								
	3600	25.9	6050	3886	6866	3387	5.62	93/96	25.8	6050	3880	6856	3586	6.64	95/97															
	4000	28.1	6723	4321	7635	3721	7.45	96/99																						
135QMXHPVP12L	3200	19.9	3323	2723	4811	2468	2.07	86/88	19.5	3323	2633	4653	2719	2.85	88/90	19.2	3323	2589	4575	3172	4.59	91/93	19.0	3323	2543	4494	3583	6.47	94/96	
	3700	22.1	3842	3146	5560	2777	2.91	90/91	21.9	3842	3104	5484	3001	3.79	91/92	21.4	3842	3007	5313	3410	5.72	93/95								
	4200	24.2	4361	3562	6295	3095	3.98	92/94	24.2	4361	3565	6300	3295	4.96	93/95	23.6	4361	3435	6071	3670	7.07	95/97								
	4700	26.3	4880	3977	7027	3418	5.31	95/96	26.4	4880	3999	7067	3597	6.39	96/97															
	5200	28.5	5399	4392	7761	3746	6.94	98/99																						

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.



# QMXHPVP Performance Data

## 150 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							5.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
150QMXHPVP09H	1500	16.5	4673	2569	2437	2084	1.51	87/85																					
	1780	18.3	5545	3046	2891	2316	2.16	89/88	18.3	5545	3046	2891	2674	3.09	94/92														
	2060	20.2	6417	3536	3356	2555	3.01	91/91	20.1	6417	3533	3352	2898	4.05	95/95														
	2340	21.9	7290	4016	3811	2808	4.11	93/94																					
	2620	23.7	8162	4489	4259	3072	5.47	95/96																					
150QMXHPVP09L	2100	17.1	4406	2728	2589	1959	1.56	82/83	16.8	4406	2642	2507	2268	2.31	88/87	16.6	4406	2594	2461	2571	3.16	92/90							
	2500	19.0	5245	3234	3069	2220	2.30	85/87	19.0	5245	3235	3070	2490	3.15	89/90	18.6	5245	3127	2968	2741	4.06	92/92							
	2900	20.9	6085	3738	3547	2495	3.29	89/91	21.0	6085	3768	3575	2727	4.21	91/93	20.9	6085	3731	3540	2957	5.24	94/94							
	3300	22.8	6924	4245	4028	2778	4.56	93/94	22.9	6924	4277	4059	2982	5.56	93/95														
	3700	24.7	7763	4756	4513	3065	6.14	95/97																					
150QMXHPVP12H	2400	20.0	4034	2636	4659	2107	2.02	84/85	20.0	4034	2635	4656	2379	2.81	88/88	19.8	4034	2592	4580	2622	3.63	91/91							
	2750	22.0	4622	3032	5358	2336	2.76	87/88	21.9	4622	3012	5322	2582	3.67	90/91	21.9	4622	3020	5337	2808	4.57	93/92							
	3100	24.0	5210	3425	6053	2573	3.70	90/92	23.9	5210	3397	6002	2794	4.70	92/93	23.9	5210	3400	6008	3006	5.73	94/94							
	3450	26.0	5798	3818	6747	2817	4.87	92/95	25.9	5798	3791	6699	3015	5.93	94/95														
	3800	28.0	6387	4211	7440	3066	6.29	94/97																					
150QMXHPVP12L	3100	20.1	3219	2656	4693	2046	1.88	83/84	19.8	3219	2598	4591	2293	2.66	87/87	19.7	3219	2585	4567	2525	3.53	90/90	20.2	3219	2679	4735	2971	5.52	94/94
	3610	22.3	3748	3095	5470	2295	2.64	87/88	22.2	3748	3069	5424	2528	3.55	90/90	21.9	3748	3011	5321	2726	4.47	92/92							
	4120	24.6	4278	3533	6243	2553	3.63	90/91	24.5	4278	3525	6229	2767	4.65	92/93	24.3	4278	3482	6152	2956	5.68	94/94							
	4630	26.8	4807	3973	7020	2820	4.86	93/94	26.8	4807	3969	7014	3012	5.99	94/95														
	5140	29.1	5337	4412	7796	3091	6.37	95/97																					
150QMXHPVP15H	4100	23.3	3736	2537	6887	2323	2.65	87/89	23.4	3736	2564	6961	2547	3.62	89/91	23.6	3736	2589	7028	2754	4.66	91/93							
	4500	24.8	4101	2785	7561	2507	3.30	89/92	24.9	4101	2802	7606	2713	4.33	91/94	25.1	4101	2831	7684	2909	5.45	92/95							
	4900	26.4	4465	3037	8244	2695	4.06	91/94	26.4	4465	3040	8252	2884	5.16	93/95	26.6	4465	3070	8333	3070	6.35	94/96							
	5300	28.0	4830	3290	8932	2886	4.95	93/96	28.0	4830	3281	8908	3060	6.12	94/97														
	5700	29.6	5194	3544	9622	3078	5.97	95/97																					
150QMXHPVP15L	4800	23.7	3127	2603	7067	2450	2.90	89/92	23.3	3127	2551	6924	2639	3.87	90/94	23.4	3127	2555	6937	2828	4.90	92/95							
	5140	24.9	3349	2793	7581	2598	3.42	91/94	24.6	3349	2746	7454	2774	4.44	92/95	24.4	3349	2724	7396	2952	5.53	93/96							
	5480	26.1	3570	2980	8091	2748	4.00 SP	92/95	25.8	3570	2942	7988	2912	5.08	93/96	25.6	3570	2903	7880	3078	6.21	94/97							
	5820	27.3	3792	3168	8601	2899	4.66	94/97	27.1	3792	3138	8518	3053	5.79	94/98														
	6160	28.4	4013	3356	9110	3051	5.39	95/98																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub>A sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

## 165 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
165QMXHPVP09H	1500	17.2	4673	2600	2467	2100	2.37	91/87	17.2	4673	2591	2459	2331	3.32	95/90	17.4	4673	2644	2509	2754	5.65	101/96	17.3	4673	2610	2477	3086	8.06	105/100
	1720	18.7	5358	2991	2838	2344	3.26	94/91	18.6	5358	2969	2817	2544	4.29	97/93	18.7	5358	3001	2848	2943	6.77	103/97							
	1940	20.2	6044	3382	3209	2591	4.36	97/94	20.1	6044	3356	3185	2774	5.51	100/96														
	2160	21.6	6729	3769	3577	2838	5.70	100/97	21.5	6729	3744	3553	3012	6.98	102/98														
	2380	23.1	7414	4158	3945	3087	7.32	102/100																					
165QMXHPVP09L	1800	17.0	3777	2552	2421	1626	1.41	82/82																					
	2410	20.5	5057	3466	3289	1958	2.59	85/87	20.3	5057	3421	3246	2236	3.62	90/89														
	3020	23.8	6337	4345	4123	2321	4.43	89/91	23.7	6337	4329	4108	2549	5.60	93/93	23.9	6337	4390	4166	3005	8.40	100/97							
	3630	27.1	7616	5226	4959	2699	7.07	93/96	27.1	7616	5223	4956	2898	8.46	96/97														
	4240	30.4	8896	6113	5801	3087	10.6	97/100																					
165QMXHPVP12H	2400	20.0	4034	2526	4464	1911	2.46	85/86	20.0	4034	2529	4469	2200	3.45	90/89														
	2870	22.6	4824	3041	5373	2180	3.72	87/90	22.5	4824	3019	5334	2430	4.88	92/93														
	3340	25.3	5613	3557	6286	2464	5.43	91/95	25.1	5613	3515	6211	2674	6.72	94/96	25.1	5613	3515	6212	3082	9.46	100/99							
	3810	27.9	6403	4066	7184	2752	7.62	94/99	27.7	6403	4028	7118	2938	9.06	97/100														
	4280	30.5	7193	4576	8086	3048	10.4	97/103																					
165QMXHPVP12L	3100	20.5	3219	2633	4652	1750	2.07	82/83	20.1	3219	2551	4509	2007	3.03	84/86	20.0	3219	2534	4477	2476	5.24	92/92							
	3880	24.1	4029	3332	5888	2058	3.42	85/87	23.8	4029	3260	5761	2285	4.57	87/89	23.3	4029	3168	5598	2677	6.99	93/93	23.3	4029	3166	5595	3051	9.84	99/97
	4660	27.6	4839	4007	7080	2384	5.33	89/92	27.4	4839	3974	7023	2581	6.68	91/94	26.8	4839	3857	6816	2933	9.53	95/96							
	5440	31.0	5648	4675	8261	2722	7.90	94/97	31.0	5648	4670	8253	2891	9.47	95/98														
	6220	34.4	6458	5342	9439	3067	11.3	98/101																					
165QMXHPVP15H	4200	23.9	3827	2612	7090	1954	2.90	84/87	23.7	3827	2586	7019	2170	3.97	86/88	23.3	3827	2515	6826	2567	6.47	91/93							
	4930	26.9	4492	3083	8371	2223	4.25	88/90	26.6	4492	3045	8267	2411	5.46	90/91	26.5	4492	3021	8201	2764	8.17	93/95	25.9	4492	2922	7931	3092	11.3	97/98
	5660	29.9	5158	3553	9645	2498	6.00 SP	92/94	29.6	5158	3514	9540	2665	7.36	93/95	29.4	5158	3483	9455	2982	10.3	96/97							
	6390	32.8	5823	4022	10918	2778	8.22	95/97	32.6	5823	3984	10815	2927	9.73	96/98														
	7120	35.8	6488	4491	12192	3063	11.0	98/100																					
165QMXHPVP15L	5100	24.9	3322	2776	7536	2084	3.22	87/89	24.6	3322	2723	7391	2285	4.50	89/90	24.1	3322	2646	7182	2627	7.05	92/93	23.7	3322	2586	7021	2947	9.88	95/96
	5840	27.6	3805	3191	8662	2330	4.42	90/92	27.3	3805	3147	8544	2510	5.83	92/93	26.8	3805	3063	8315	2829	8.76	95/96							
	6580	30.2	4287	3604	9785	2583	5.94	94/95	30.0	4287	3567	9684	2742	7.45	95/96	29.5	4287	3488	9468	3043	10.8	97/98							
	7320	32.8	4769	4017	10905	2840	7.81	97/98	32.6	4769	3987	10824	2983	9.43	98/99														
	8060	35.4	5251	4428	12020	3099	10.1	100/100																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WA}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

## 180 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							3.00 SP							5.00 SP							7.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
180QMXHPVP12L	3000	20.6	3115	2546	4499	1575	1.89	81/82								23.0	3115	3019	5335	2598	6.60	95/96							
	3950	24.9	4101	3399	6006	1920	3.47	85/88	25.0	4101	3413	6031	2326	5.97	91/93	24.3	4101	3266	5772	2670	8.66	95/96							
	4900	29.2	5088	4231	7476	2288	5.88	90/93	28.8	5088	4161	7353	2628	8.77	94/96	29.3	5088	4241	7494	2942	12.0	98/99							
	5850	33.4	6074	5046	8917	2667	9.31	94/99	33.1	6074	4990	8819	2959	12.6	98/100														
	6800	37.5	7061	5860	10355	3054	14.0	98/103																					
180QMXHPVP15H	4000	24.4	3645	2621	7114	1727	2.58	83/85	23.7	3645	2504	6798	2127	4.70	88/89	23.9	3645	2537	6888	2502	7.31	93/95	24.4	3645	2622	7117	2858	10.4	97/98
	4990	28.4	4547	3244	8807	2049	4.29	87/90	28.2	4547	3220	8741	2388	6.80	90/92	27.7	4547	3127	8490	2708	9.65	95/96	27.9	4547	3160	8579	3012	12.9	99/99
	5980	32.4	5449	3876	10522	2381	6.65	91/94	32.7	5449	3930	10668	2691	9.76	94/96	31.9	5449	3796	10305	2951	12.8	97/98							
	6970	36.5	6351	4517	12262	2722	9.83	95/98	36.8	6351	4565	12394	3004	13.6	98/100														
	7960	40.5	7254	5160	14007	3067	13.9	99/102																					
180QMXHPVP15L	5000	24.5	3257	2629	7138	1794	2.77	85/86	23.9	3257	2529	6864	2176	5.17	89/89	23.9	3257	2534	6879	2514	7.83	93/94	24.8	3257	2680	7276	2837	11.0	98/98
	6100	28.2	3974	3206	8704	2100	4.34	88/90	27.9	3974	3171	8607	2439	7.22	92/92	27.2	3974	3060	8308	2730	10.2	95/95	27.3	3974	3072	8338	3006	13.4	99/99
	7200	31.8	4691	3784	10272	2417	6.46	92/94	31.8	4691	3779	10259	2719	9.84	95/96	31.3	4691	3704	10055	2983	13.3	98/97							
	8300	35.5	5407	4362	11840	2742	9.28	96/97	35.5	5407	4364	11847	3010	13.1	99/99														
	9400	39.1	6124	4941	13412	3071	12.9	100/100																					
180QMXHPVP18H	6200	27.8	2908	2580	10164	2073	4.22	89/90	27.6	2908	2546	10031	2412	7.07	92/93	27.3	2908	2516	9911	2705	10.1	95/97	27.5	2908	2539	10001	2982	13.4	98/101
	7070	30.6	3316	2943	11592	2315	5.77	92/93	30.5	3316	2928	11534	2625	9.00	95/96	30.1	3316	2874	11322	2895	12.3	97/99							
	7940	33.4	3724	3306	13022	2561	7.71	94/96	33.3	3724	3297	12990	2845	11.3	97/98														
	8810	36.2	4132	3669	14453	2811	10.1	97/99	36.1	4132	3664	14434	3072	14.1	100/101														
	9680	39.0	4540	4032	15884	3063	12.9	100/102																					
180QMXHPVP18L	7600	29.2	3182	2757	10860	2305	5.01	92/94	28.7	3182	2689	10593	2594	8.11	94/96	28.8	3182	2704	10653	2869	11.6	96/98							
	8300	31.1	3475	3012	11865	2490	6.21	94/96	30.7	3475	2951	11623	2758	9.54	96/98	30.6	3475	2943	11595	3014	13.2	98/100							
	9000	33.1	3768	3267	12870	2678	7.63	97/98	32.7	3768	3219	12682	2927	11.2	98/100														
	9700	35.1	4061	3522	13873	2867	9.26	99/100																					
	10400	37.0	4354	3776	14874	3057	11.1	100/102																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{W/A}$  and outlet  $L_{W/O}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

202 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							3.00 SP							5.00 SP							7.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
202QMXHPVP12L	3000	21.4	3115	2563	4529	1351	2.12	81/82																					
	4060	25.9	4216	3450	6097	1653	4.03	86/89	26.1	4216	3482	6152	2037	7.02	93/94														
	5120	30.6	5316	4357	7700	1988	7.09	91/95	30.7	5316	4377	7735	2320	10.7	96/98	30.7	5316	4392	7761	2595	14.5	100/101							
	6180	35.2	6417	5267	9307	2332	11.5	95/100	35.2	6417	5258	9291	2609	15.7	99/102														
	7240	39.9	7517	6184	10928	2684	17.6	99/105																					
202QMXHPVP15H	4000	24.8	3645	2562	6954	1412	2.62	81/84	25.0	3645	2599	7056	1828	5.27	90/90														
	5250	29.7	4784	3340	9066	1715	4.74	86/89	29.7	4784	3333	9048	2071	8.03	91/93	30.2	4784	3410	9258	2379	11.6	97/97							
	6500	34.6	5923	4119	11183	2036	7.96	90/94	34.9	5923	4159	11291	2347	12.0	94/97	34.7	5923	4135	11226	2619	16.1	98/100							
	7750	39.7	7062	4910	13328	2371	12.6	94/99	39.9	7062	4954	13449	2641	17.2	98/101														
	9000	44.7	8201	5703	15483	2712	18.8	98/104																					
202QMXHPVP15L	4700	24.6	3062	2530	6869	1370	2.38	80/83	24.8	3062	2564	6959	1787	5.13	88/89	24.8	3062	2572	6982	2119	8.24	94/95							
	6200	29.7	4039	3340	9068	1676	4.32	86/88	29.5	4039	3313	8995	2014	7.51	90/91	29.9	4039	3369	9147	2324	11.3	95/96	30.4	4039	3444	9349	2605	15.5	99/99
	7700	34.9	5016	4154	11277	2001	7.29	90/93	34.8	5016	4142	11245	2287	11.0	94/95	34.6	5016	4112	11163	2548	15.2	97/98							
	9200	40.1	5993	4973	13501	2337	11.5	95/97	39.9	5993	4954	13449	2584	15.9	97/99														
	10700	45.3	6971	5793	15725	2679	17.2	99/101																					
202QMXHPVP18H	5900	28.3	2767	2609	10278	1584	3.61	84/86	27.6	2767	2513	9900	1933	6.66	89/92	28.0	2767	2569	10120	2259	10.3	93/97	28.6	2767	2644	10415	2525	14.1	98/100
	7200	32.7	3377	3177	12514	1854	5.70	88/91	32.4	3377	3143	12382	2157	9.27	92/94	31.8	3377	3057	12043	2430	13.2	95/98	32.2	3377	3112	12257	2699	17.7	98/102
	8500	37.0	3987	3741	14735	2132	8.56	92/94	37.1	3987	3756	14796	2404	12.7	95/96	36.4	3987	3667	14446	2643	17.1	98/100							
	9800	41.3	4597	4306	16963	2416	12.3	95/98	41.6	4597	4336	17082	2660	17.1	98/100														
	11100	45.7	5206	4872	19192	2705	17.2	99/102																					
202QMXHPVP18L	7000	27.9	2931	2560	10086	1611	3.64	86/88	27.9	2931	2557	10071	1957	7.02	89/91	27.6	2931	2515	9906	2238	10.5	93/95	28.2	2931	2590	10204	2513	14.5	97/99
	8400	31.8	3517	3066	12078	1867	5.48	89/92	31.9	3517	3080	12134	2167	9.35	92/94	31.7	3517	3052	12021	2432	13.5	95/97	31.4	3517	3018	11887	2663	17.7	98/100
	9800	35.7	4103	3573	14077	2133	7.96	93/95	35.8	4103	3591	14146	2390	12.3	95/97	35.8	4103	3590	14141	2639	17.1	98/100							
	11200	39.6	4689	4081	16078	2405	11.2	96/99	39.7	4689	4100	16150	2627	16.0	98/100														
	12600	43.5	5275	4590	18082	2680	15.3	99/102																					
202QMXHPVP21H	8100	31.6	3850	2662	13313	1870	5.86	89/91	30.8	3850	2579	12900	2162	9.74	91/93	30.8	3850	2570	12855	2422	13.8	94/97	30.4	3850	2527	12637	2661	18.0	97/99
	9100	34.5	4325	2999	15000	2065	7.78	91/93	33.7	4325	2908	14541	2331	12.0	94/95	33.6	4325	2900	14505	2573	16.6	96/98							
	10100	37.3	4800	3334	16675	2263	10.1	94/96	36.6	4800	3251	16261	2506	14.7	96/97														
	11100	40.2	5276	3669	18348	2463	13.0	96/98	39.6	5276	3602	18016	2687	17.9	98/100														
	12100	43.1	5751	4002	20015	2665	16.3	99/101																					
202QMXHPVP21L	10000	32.9	3642	2819	14099	2081	7.27	92/95	32.6	3642	2787	13936	2334	11.6	94/96	31.6	3642	2665	13326	2565	15.9	96/98							
	10800	34.9	3933	3050	15252	2228	8.80	94/97	34.6	3933	3018	15091	2464	13.4	96/98	33.9	3933	2937	14690	2683	18.1	98/100							
	11600	36.9	4224	3281	16407	2376	10.6	96/98	36.6	4224	3246	16231	2597	15.4	98/100														
	12400	38.9	4516	3511	17561	2524	12.5	98/100																					
	13200	40.8	4807	3742	18715	2674	14.8	100/102																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

## 225 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							3.00 SP							5.00 SP							7.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
225QMXHPVP12H	2400	22.5	4034	2622	4633	1537	4.29	93/92	22.3	4034	2596	4587	1868	8.02	100/97	22.2	4034	2578	4555	2142	12.3	104/101	22.2	4034	2571	4544	2377	17.1	107/104
	2810	24.8	4723	3070	5426	1738	6.14	96/95	24.7	4723	3054	5396	2040	10.4	101/99	24.6	4723	3030	5354	2298	15.0	106/103							
	3220	27.1	5412	3518	6217	1944	8.55	99/98	27.0	5412	3509	6201	2222	13.3	103/102														
	3630	29.4	6101	3968	7011	2154	11.6	102/101																					
	4040	31.7	6790	4416	7804	2366	15.4	105/104																					
225QMXHPVP12L	3600	24.3	3738	2987	5278	1330	3.57	86/87																					
	4540	28.2	4714	3744	6617	1566	6.13	89/92																					
	5480	33.0	5690	4676	8263	1821	9.74	93/96																					
	6420	37.3	6666	5525	9762	2082	14.6	96/101	36.2	6666	5301	9368	2347	19.9	100/103														
	7360	41.5	7642	6334	11193	2347	21.0	100/104																					
225QMXHPVP15H	4100	25.5	3736	2558	6944	1256	3.15	82/85																					
	5370	30.7	4893	3373	9156	1515	5.73	87/91	30.3	4893	3310	8984	1843	9.73	93/94														
	6640	35.9	6051	4188	11368	1794	9.65	91/96	35.5	6051	4130	11213	2087	14.4	96/98	35.2	6051	4087	11096	2321	19.4	99/100							
	7910	41.0	7208	5004	13585	2084	15.1	95/100	40.7	7208	4951	13441	2335	20.5	98/102														
	9180	46.2	8365	5820	15801	2380	22.6	98/104																					
225QMXHPVP15L	4800	25.6	3127	2567	6968	1163	2.71	79/82	25.7	3127	2584	7016	1559	5.98	89/90														
	6500	31.5	4235	3505	9514	1428	5.10	84/88	31.1	4235	3428	9306	1762	9.18	91/92	31.6	4235	3516	9546	2044	13.6	96/97	30.8	4235	3395	9217	2295	18.5	100/100
	8200	37.4	5342	4427	12019	1718	8.96	90/93	37.1	5342	4380	11890	1997	13.7	94/96	36.8	5342	4332	11759	2249	19.0	98/99							
	9900	43.3	6450	5359	14548	2019	14.6	94/98	43.2	6450	5337	14489	2254	19.9	97/99														
	11600	49.2	7557	6296	17093	2329	22.5	98/102																					
225QMXHPVP18H	6000	28.6	2814	2544	10021	1314	3.86	82/85	28.7	2814	2557	10073	1662	7.64	89/91	29.1	2814	2607	10268	1970	11.9	95/96							
	7500	33.9	3518	3239	12759	1554	6.39	87/90	33.7	3518	3207	12632	1861	10.9	92/94	33.6	3518	3191	12570	2117	15.7	96/97	33.9	3518	3237	12752	2369	21.1	100/101
	9000	39.1	4221	3915	15422	1806	9.99	91/94	38.3	4221	3805	14988	2068	15.0	94/97	38.7	4221	3860	15205	2311	20.7	98/100							
	10500	44.2	4925	4578	18035	2065	14.9	95/98	43.3	4925	4455	17549	2292	20.5	97/100														
	12000	49.3	5629	5239	20637	2329	21.3	98/102																					
225QMXHPVP18L	7500	29.4	3140	2647	10429	1336	4.11	83/86	28.7	3140	2558	10075	1664	8.09	88/90	28.4	3140	2518	9921	1940	12.6	93/95	29.1	3140	2608	10273	2202	17.7	97/99
	9300	34.3	3893	3289	12958	1577	6.63	88/90	33.9	3893	3230	12723	1865	11.3	91/94	33.3	3893	3162	12457	2107	16.5	94/96	33.1	3893	3124	12306	2330	22.0	98/99
	11100	39.2	4647	3931	15487	1828	10.2	92/95	39.0	4647	3904	15381	2077	15.6	94/97	38.4	4647	3826	15073	2306	21.4	97/99							
	12900	44.2	5401	4577	18031	2085	15.0	95/98	44.0	5401	4553	17936	2303	21.0	97/100														
	14700	49.2	6154	5223	20575	2347	21.3	99/102																					
225QMXHPVP21H	8000	32.4	3802	2671	13357	1464	5.32	86/87	31.0	3802	2512	12561	1762	9.45	90/91	32.0	3802	2622	13111	2034	14.2	94/95	32.5	3802	2682	13411	2274	19.2	98/99
	9500	36.7	4515	3176	15883	1682	7.98	89/91	35.3	4515	3009	15050	1943	12.7	92/94	35.3	4515	3011	15059	2184	17.9	95/97							
	11000	40.9	5228	3666	18336	1904	11.5	93/95	40.2	5228	3585	17927	2139	16.8	95/96	39.1	5228	3450	17256	2353	22.5	97/99							
	12500	45.1	5941	4154	20775	2130	16.0	96/98	45.1	5941	4149	20748	2345	22.0	98/99														
	14000	49.3	6654	4640	23207	2359	21.6	98/101																					
225QMXHPVP21L	8700	31.2	3168	2538	12691	1424	4.57	86/87	31.1	3168	2521	12606	1726	8.67	89/91	31.5	3168	2572	12865	1989	13.2	92/94	31.7	3168	2592	12965	2235	18.4	96/98
	10400	35.5	3787	3034	15171	1643	6.83	90/91	35.2	3787	2998	14993	1907	11.5	92/94	35.4	3787	3028	15142	2145	16.7	94/96	35.8	3787	3072	15362	2362	22.1	97/98
	12100	39.7	4406	3521	17609	1868	9.82	93/95	39.5	4406	3501	17511	2101	15.1	95/97	39.5	4406	3495	17477	2318	20.9	97/98							
	13800	43.9	5025	4007	20039	2098	13.7	96/98	43.9	5025	4016	20083	2307	19.7	98/99														
	15500	48.1	5645	4494	22474	2331	18.6	99/101																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

245 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							3.00 SP							5.00 SP							7.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
245QMXHPVP15H	4200	26.0	3827	2522	6846	1177	3.36	84/84																					
	5390	30.6	4912	3243	8803	1396	5.79	87/89																					
	6580	35.3	5996	3984	10815	1633	9.40	91/94	35.2	5996	3963	10758	1918	14.3	97/97														
	7770	40.0	7080	4722	12819	1876	14.4	95/98	39.6	7080	4662	12655	2126	20.0	100/100														
	8960	44.7	8165	5462	14827	2127	21.0	99/102																					
245QMXHPVP15L	4800	26.0	3127	2519	6838	1071	2.72	81/80																					
	6500	31.9	4235	3444	9348	1307	5.04	85/86	31.5	4235	3383	9183	1626	9.29	92/91	30.8	4235	3275	8890	1859	13.2	97/94							
	8200	37.7	5342	4365	11850	1562	8.70	90/91	37.3	5342	4304	11683	1840	13.8	95/95	37.0	5342	4249	11535	2077	19.3	99/98							
	9900	43.4	6450	5268	14300	1830	14.1	94/96	43.1	6450	5216	14159	2073	19.9	98/99														
	11600	49.1	7557	6168	16746	2107	21.5	98/101																					
245QMXHPVP18H	6100	29.4	2861	2551	10049	1200	3.85	83/83	29.2	2861	2535	9984	1540	7.76	91/89														
	7600	34.3	3565	3188	12560	1413	6.35	87/88	34.2	3565	3175	12506	1702	10.8	93/92	33.9	3565	3141	12371	1962	15.9	98/96							
	9100	39.2	4268	3828	15081	1637	9.94	91/93	39.0	4268	3801	14972	1884	14.8	96/95	39.0	4268	3802	14976	2117	20.7	100/98							
	10600	44.1	4972	4466	17594	1864	14.7	95/97	43.8	4972	4433	17462	2083	20.1	98/98														
	12100	49.0	5675	5106	20115	2096	20.9	98/100																					
245QMXHPVP18L	7200	29.2	3014	2527	9953	1176	3.65	83/83	29.1	3014	2519	9923	1485	7.37	89/89														
	9100	34.7	3810	3239	12760	1402	6.13	88/88	34.3	3810	3193	12578	1674	10.5	92/92	34.2	3810	3180	12528	1900	15.4	96/95	32.0	3810	2899	11419	2122	20.8	100/98
	11000	40.0	4605	3942	15527	1637	9.62	92/93	39.3	4605	3846	15150	1872	14.7	95/95	39.4	4605	3864	15220	2084	20.3	99/98							
	12900	45.3	5401	4631	18244	1877	14.3	96/97	44.6	5401	4537	17872	2086	20.4	99/98														
	14800	50.6	6196	5317	20946	2121	20.4	100/100																					
245QMXHPVP21H	7800	32.4	3707	2601	13010	1302	4.96	85/86	31.9	3707	2536	12683	1599	9.09	90/91	32.4	3707	2598	12992	1872	14.1	95/95	32.2	3707	2578	12894	2099	19.3	98/99
	9300	36.7	4420	3101	15511	1493	7.43	89/90	36.3	4420	3050	15253	1755	12.1	93/93	36.3	4420	3044	15226	1995	17.5	97/97							
	10800	41.1	5133	3604	18023	1691	10.7	92/94	41.0	5133	3593	17967	1927	16.1	95/96	40.2	5133	3507	17540	2136	21.8	98/99							
	12300	45.4	5846	4110	20556	1893	14.9	96/97	45.4	5846	4104	20523	2107	21.1	98/99														
	13800	49.8	6559	4618	23094	2098	20.3	99/100																					
245QMXHPVP21L	9300	32.5	3387	2607	13039	1332	5.07	87/88	32.6	3387	2625	13126	1617	9.56	90/91	31.6	3387	2509	12546	1870	14.6	94/94	32.2	3387	2574	12875	2105	20.4	98/99
	10900	36.5	3969	3074	15376	1513	7.30	90/91	36.3	3969	3055	15281	1763	12.3	93/94	36.1	3969	3030	15152	1994	17.9	96/96							
	12500	40.5	4552	3536	17683	1698	10.1	93/94	40.0	4552	3481	17411	1921	15.6	96/96	40.4	4552	3530	17653	2132	21.9	98/98							
	14100	44.4	5135	3995	19978	1887	13.7	96/97	43.9	5135	3931	19660	2088	19.8	99/99														
	15700	48.4	5717	4453	22272	2079	18.1	99/100																					
245QMXHPVP24H	11700	37.6	3866	2696	19054	1534	7.40	91/92	37.0	3866	2641	18670	1780	12.5	94/94	36.5	3866	2589	18303	1997	18.0	97/97							
	13000	40.7	4296	2999	21199	1677	9.49	94/94	40.2	4296	2957	20901	1903	15.0	96/96	39.6	4296	2897	20477	2108	21.1	99/98							
	14300	43.8	4726	3303	23344	1822	12.0	96/96	43.4	4726	3268	23099	2031	18.0	99/98														
	15600	46.9	5155	3605	25484	1968	14.9	98/99																					
	16900	50.0	5585	3908	27624	2116	18.4	100/101																					
245QMXHPVP24L	12400	36.4	3216	2578	18220	1537	6.85	92/92	35.6	3216	2505	17707	1776	12.0	95/94	35.7	3216	2511	17749	1992	17.6	97/97							
	13700	39.1	3553	2851	20150	1674	8.66	94/95	38.4	3553	2778	19635	1893	14.3	97/96	38.3	3553	2771	19589	2095	20.3	99/98							
	15000	41.9	3890	3123	22073	1812	10.8	97/97	41.3	3890	3063	21651	2015	16.9	99/98														
	16300	44.7	4227	3394	23993	1951	13.3	99/99	44.2	4227	3350	23679	2140	19.8	101/100														
	17600	47.5	4564	3665	25910	2092	16.2	101/101																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub>A sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

## 270 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
270QMXHPVP15L	4700	26.8	3062	2538	6891	931	2.89	80/82																					
	6500	32.9	4235	3497	9492	1146	5.60	85/88	33.0	4235	3512	9533	1300	7.84	89/91														
	8300	39.1	5407	4472	12141	1378	9.91	90/93	39.0	5407	4463	12116	1510	12.7	93/95	39.2	5407	4494	12199	1745	18.7	97/98							
	10100	45.2	6580	5442	14774	1618	16.2	94/98	45.2	6580	5436	14758	1735	19.6	96/99														
	11900	51.4	7752	6411	17405	1865	24.8	98/102																					
270QMXHPVP18H	6000	30.0	2814	2527	9955	1042	4.24	82/85	30.0	2814	2534	9983	1212	6.39	87/88														
	7600	35.4	3565	3228	12716	1230	7.08	87/89	35.0	3565	3187	12556	1374	9.60	90/92	35.5	3565	3250	12801	1631	15.2	96/96							
	9200	40.7	4315	3926	15466	1428	11.1	91/94	40.4	4315	3888	15318	1556	14.2	93/95	40.2	4315	3862	15212	1782	20.5	97/98							
	10800	46.0	5066	4617	18188	1632	16.7	94/97	45.8	5066	4587	18071	1746	20.3	96/99														
	12400	51.3	5816	5309	20912	1840	24.0	97/101																					
270QMXHPVP18L	7500	30.7	3140	2624	10335	1024	4.18	81/84	30.2	3140	2559	10080	1186	6.36	86/87	30.9	3140	2641	10404	1465	11.3	93/94							
	9600	36.6	4019	3383	13328	1220	7.13	86/89	36.3	4019	3349	13191	1359	9.73	89/91	35.2	4019	3203	12617	1602	15.5	94/95	36.2	4019	3335	13137	1821	21.9	98/100
	11700	42.3	4898	4139	16306	1428	11.4	91/94	42.1	4898	4104	16168	1547	14.5	92/95	41.7	4898	4054	15969	1764	21.1	96/98							
	13800	48.1	5777	4885	19244	1641	17.2	95/98	47.9	5777	4867	19171	1747	20.9	96/99														
	15900	53.8	6657	5631	22182	1860	25.0	98/102																					
270QMXHPVP21H	7800	33.0	3707	2599	12996	1091	5.18	84/86	32.4	3707	2527	12639	1242	7.47	87/88	32.8	3707	2574	12874	1501	12.6	93/93	33.4	3707	2642	13211	1725	18.0	98/98
	9600	38.2	4563	3205	16026	1274	8.26	88/90	38.0	4563	3177	15889	1405	11.0	90/91	37.4	4563	3106	15533	1635	16.8	95/96	37.9	4563	3166	15832	1841	23.2	99/99
	11400	43.4	5418	3807	19038	1464	12.5	92/94	43.3	5418	3799	18998	1579	15.7	94/95	42.5	5418	3704	18525	1788	22.4	97/98							
	13200	48.6	6274	4412	22066	1661	18.3	95/98	48.5	6274	4405	22028	1762	21.8	97/98														
	15000	53.8	7129	5018	25097	1861	25.6	99/101																					
270QMXHPVP21L	9000	32.2	3277	2508	12545	1070	4.77	83/85	32.2	3277	2510	12553	1210	6.97	87/88	32.3	3277	2520	12605	1474	12.3	92/93	33.4	3277	2640	13204	1699	18.2	97/97
	11100	37.6	4042	3128	15644	1251	7.53	88/90	37.2	4042	3082	15413	1378	10.3	90/91	37.3	4042	3095	15478	1598	16.0	94/95	37.4	4042	3104	15526	1809	22.8	97/98
	13200	42.8	4807	3735	18682	1439	11.3	92/94	42.3	4807	3685	18428	1553	14.6	94/95	42.3	4807	3676	18385	1748	21.0	96/97							
	15300	47.9	5572	4335	21681	1634	16.4	96/97	47.7	5572	4307	21539	1734	20.1	97/98														
	17400	53.1	6336	4931	24662	1832	22.9	99/101																					
270QMXHPVP24H	11300	37.0	3734	2601	18384	1213	6.58	87/89	36.7	3734	2575	18200	1345	9.30	89/91	36.2	3734	2528	17872	1575	15.0	93/95	36.1	3734	2519	17808	1782	21.3	96/99
	13200	41.5	4362	3045	21524	1373	9.40	91/92	41.3	4362	3022	21360	1491	12.5	92/94	40.9	4362	2989	21129	1701	19.0	95/97	40.4	4362	2939	20775	1889	25.8	98/100
	15100	46.0	4990	3484	24626	1536	13.0	94/96	45.9	4990	3470	24527	1643	16.5	95/97	45.5	4990	3435	24279	1837	23.8	98/99							
	17000	50.5	5618	3923	27729	1702	17.5	97/98	50.4	5618	3917	27688	1801	21.4	98/99														
	18900	55.0	6246	4361	30826	1870	23.0	100/101																					
270QMXHPVP24L	13300	38.5	3449	2750	19442	1299	7.54	90/91	38.0	3449	2699	19082	1414	10.3	91/93	36.8	3449	2588	18296	1630	16.5	94/96	36.1	3449	2519	17806	1821	23.2	96/99
	15000	42.2	3890	3108	21971	1436	9.95	93/94	41.8	3890	3074	21726	1540	13.0	94/95	40.7	3890	2967	20973	1738	19.8	96/98							
	16700	45.8	4331	3465	24490	1576	12.9	95/96	45.6	4331	3443	24334	1671	16.4	96/97	44.6	4331	3347	23657	1852	23.5	98/99							
	18400	49.4	4772	3820	27002	1718	16.5	98/99	49.3	4772	3805	26896	1804	20.3	98/100														
	20100	53.1	5213	4175	29515	1861	20.8	100/101																					
270QMXHPVP27H	13800	40.4	3796	2663	22378	1362	9.04	91/92	39.8	3796	2615	21970	1475	12.1	93/93	39.8	3796	2609	21920	1686	18.8	96/96	39.1	3796	2544	21376	1868	25.6	98/99
	15300	43.7	4209	2958	24857	1488	11.6	94/94	43.3	4209	2921	24546	1589	14.9	95/95	42.9	4209	2889	24271	1787	22.2	98/98							
	16800	47.0	4622	3252	27322	1615	14.6	96/96	46.7	4622	3225	27100	1706	18.2	97/97	46.0	4622	3167	26610	1890	26.0	99/99							
	18300	50.2	5034	3545	29785	1744	18.3	98/99	50.0	5034	3526	29628	1827	22.1	99/99														
	19800	53.5	5447	3837	32242	1874	22.5	100/101																					
270QMXHPVP27L	16500	41.1	3394	2728	22920	1473	10.6	94/95	41.0	3394	2720	22852	1568	13.8	95/96	40.1	3394	2639	22174	1752	20.6	97/98							
	17800	43.5	3662	2941	24715	1574	12.8	96/97	43.5	3662	2940	24707	1663	16.2	97/98	42.7	3662	2872	24129	1834	23.3	99/99							
	19100	45.9	3929	3155	26507	1676	15.2	98/99	45.9	3929	3159	26543	1760	19.0	98/99														
	20400	48.3	4197	3368	28304	1779	18.0	100/101	48.3	4197	3374	28348	1858	22.0	100/101														
	21700	50.7	4464	3582	30099	1883	21.2	101/102																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WO</sub>A sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.



# QMXHPVP Performance Data

## 300 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
300QMXHPVP18H	6700																												
	8000	38.7	3752	3505	13806	1177	9.71	92/92																					
	9300	42.8	4362	4040	15913	1314	13.8	94/96																					
	10600	46.9	4972	4569	18000	1455	19.0	97/99	47.5	4972	4643	18288	1590	23.7	101/101														
	11900	51.1	5582	5112	20136	1600	25.4	100/102																					
300QMXHPVP18L	7000	31.1	2931	2505	9867	881	4.39	82/83																					
	9200	37.3	3852	3321	13081	1042	7.48	86/89	37.1	3852	3286	12945	1200	10.9	91/92														
	11400	43.2	4773	4093	16122	1217	12.0	90/93	43.4	4773	4114	16207	1352	16.2	94/96	43.4	4773	4118	16221	1601	25.1	100/100							
	13600	49.2	5694	4870	19182	1401	18.5	95/98	49.5	5694	4904	19320	1520	23.3	97/99														
	15800	55.2	6615	5652	22265	1590	27.1	99/102																					
300QMXHPVP21H	7900	34.3	3755	2561	12810	980	5.94	85/88	34.2	3755	2545	12727	1144	8.82	91/93														
	9600	39.3	4563	3135	15676	1122	9.12	88/92	38.9	4563	3085	15430	1269	12.5	93/95														
	11300	44.1	5371	3700	18503	1273	13.4	92/96	43.8	5371	3666	18333	1396	17.2	96/98	43.6	5371	3640	18202	1627	25.4	102/102							
	13000	49.0	6179	4259	21300	1428	19.1	95/99	48.8	6179	4241	21210	1537	23.3	98/101														
	14700	53.8	6987	4818	24096	1586	26.3	99/102																					
300QMXHPVP21L	9400	34.3	3423	2557	12789	936	5.54	83/86																					
	11800	40.2	4297	3245	16230	1098	9.01	87/91	39.7	4297	3186	15936	1230	12.5	91/94	39.0	4297	3101	15509	1472	20.2	98/99							
	14200	46.1	5171	3923	19617	1269	13.9	91/96	45.7	5171	3877	19389	1383	17.9	94/97	44.9	5171	3784	18926	1597	26.7	100/101							
	16600	51.8	6045	4589	22950	1445	20.5	95/100	51.6	6045	4564	22827	1547	25.2	97/101														
	19000	57.5	6919	5255	26280	1626	29.2	99/103																					
300QMXHPVP24H	11400	38.5	3767	2628	18574	1017	7.15	85/87	38.0	3767	2577	18212	1156	10.4	89/90	37.5	3767	2530	17883	1402	17.7	95/96							
	13500	43.5	4461	3122	22067	1152	10.3	89/91	43.2	4461	3092	21859	1278	14.2	91/93	41.8	4461	2954	20882	1495	22.0	97/97							
	15600	48.5	5155	3611	25526	1293	14.6	92/94	48.4	5155	3594	25402	1406	18.9	94/95	47.5	5155	3510	24809	1607	27.8	99/99							
	17700	53.6	5849	4101	28989	1438	19.9	95/98	53.4	5849	4089	28902	1539	24.7	97/98														
	19800	58.6	6543	4590	32446	1586	26.7	98/101																					
300QMXHPVP24L	12900	39.0	3345	2675	18911	1023	7.10	85/87	38.7	3345	2653	18754	1158	10.5	89/90	37.3	3345	2510	17739	1396	18.1	94/95	37.9	3345	2572	18180	1608	26.5	100/100
	15400	44.5	3994	3218	22744	1171	10.5	89/91	44.0	3994	3169	22400	1287	14.3	92/93	43.5	3994	3117	22033	1501	22.8	96/97							
	17900	49.9	4642	3747	26489	1325	14.9	93/95	49.6	4642	3710	26223	1427	19.3	95/96	49.3	4642	3681	26018	1620	28.7	99/100							
	20400	55.3	5290	4275	30216	1482	20.7	96/98	55.1	5290	4254	30066	1573	25.5	98/99														
	22900	60.7	5939	4801	33937	1642	27.9	99/101																					
300QMXHPVP27H	13500	41.7	3714	2630	22099	1108	8.80	87/91	41.1	3714	2578	21659	1235	12.4	90/94							40.6	3714	2535	21297	1672	29.1	101/102	
	15600	46.4	4292	3049	25621	1242	12.3	91/95	45.8	4292	3002	25227	1355	16.3	93/96	45.2	4292	2942	24720	1562	25.1	98/100							
	17700	50.9	4869	3458	29053	1379	16.7	94/97	50.7	4869	3436	28868	1481	21.1	96/99														
	19800	55.5	5447	3864	32468	1519	22.1	97/100	55.4	5447	3862	32452	1612	27.0	98/101														
	21900	60.0	6025	4269	35874	1660	28.7	100/103																					
300QMXHPVP27L	15800	41.9	3250	2647	22241	1130	8.84	89/92	41.6	3250	2620	22014	1247	12.4	91/94	40.5	3250	2521	21183	1462	20.7	95/98	40.4	3250	2516	21144	1663	29.9	99/102
	18200	46.3	3744	3045	25584	1267	12.2	92/95	46.3	3744	3039	25536	1371	16.2	94/97	45.5	3744	2970	24958	1568	25.3	98/100							
	20600	50.7	4238	3440	28901	1407	16.4	95/98	50.8	4238	3450	28986	1501	21.0	97/100														
	23000	55.1	4732	3834	32213	1550	21.6	98/101	55.3	4732	3852	32363	1634	26.6	100/102														
	25400	59.5	5225	4228	35528	1694	27.9	101/104																					
300QMXHPVP30H	18300	47.4	4053	2752	30393	1276	13.0	92/94	46.9	4053	2716	29995	1380	17.2	94/96	45.8	4053	2629	29034	1569	26.3	98/99							
	20100	50.9	4452	3022	33376	1382	16.3	95/96	50.6	4452	3004	33175	1477	20.9	97/98														
	21900	54.3	4850	3290	36341	1489	20.2	97/99	54.2	4850	3285	36284	1577	25.1	99/100														
	23700	57.7	5249	3559	39309	1597	24.7	100/101	57.8	5249	3562	39339	1679	30.0	101/102														
	25500	61.2	5648	3827	42273	1706	30.0	102/103																					
300QMXHPVP30L	21800	48.0	3756	2801	30931	1372	15.2	95/97	48.1	3756	2807	31004	1464	19.8	97/98	47.4	3756	2750	30374	1637	29.6	100/101							
	23400	50.7	4032	3006	33197	1460	18.2	97/99	50.7	4032	3011	33260	1545	22.9	99/100														
	25000	53.3	4307	3211	35465	1549	21.5	99/100	53.3	4307	3216	35519	1629	26.5	100/101														
	26600	55.9	4583	3417	37736	1638	25.2	101/102																					
	28200	58.5	4859	3622	40009	1728	29.4	103/103																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.



# QMXHPVP Performance Data

## 330 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
330QMXHPVP24H	11200	38.8	3701	2555	18063	870	7.09	85/87	38.5	3701	2527	17864	1004	10.8	88/89	38.6	3701	2541	17961	1232	18.5	96/95							
	14100	46.1	4660	3272	23131	1029	11.9	88/91	45.3	4660	3196	22591	1142	16.0	91/93	45.0	4660	3165	22374	1342	25.2	97/97	45.3	4660	3189	22541	1522	35.1	102/101
	17000	53.1	5618	3955	27958	1195	18.6	92/96	52.6	5618	3902	27583	1293	23.4	95/97	52.0	5618	3843	27166	1473	34.2	99/100							
	19900	60.0	6576	4624	32688	1366	27.8	96/100	59.9	6576	4618	32643	1453	33.4	98/101														
	22800	66.8	7535	5291	37402	1541	39.9	100/104																					
330QMXHPVP24L	12700	39.4	3294	2618	18504	867	7.01	84/87	39.0	3294	2574	18191	998	10.6	88/89	38.5	3294	2526	17854	1226	18.8	95/95	38.7	3294	2549	18019	1399	27.0	102/100
	16000	46.7	4149	3329	23528	1026	11.5	88/91	46.2	4149	3281	23189	1138	15.9	91/92	45.4	4149	3206	22661	1335	25.2	96/96	45.2	4149	3177	22460	1515	35.6	101/100
	19300	53.8	5005	4021	28424	1194	18.0	92/95	53.5	5005	3991	28214	1289	23.0	94/96	52.8	5005	3930	27778	1466	33.9	98/99							
	22600	60.8	5861	4708	33277	1367	26.6	97/99	60.7	5861	4701	33233	1450	32.5	98/100														
	25900	67.8	6717	5393	38121	1543	38.0	100/103																					
330QMXHPVP27H	13400	41.5	3686	2566	21559	935	8.78	86/88	41.1	3686	2534	21290	1057	12.6	89/90														
	16000	47.1	4402	3069	25786	1071	13.1	89/92	46.9	4402	3052	25643	1177	17.5	92/93	46.3	4402	3002	25224	1369	27.1	97/98	46.0	4402	2968	24937	1544	37.8	101/101
	18600	52.6	5117	3566	29966	1210	18.8	93/95	52.6	5117	3561	29922	1305	23.9	95/97	52.1	5117	3515	29531	1479	34.6	99/100							
	21200	58.2	5832	4064	34144	1353	26.2	96/99	58.2	5832	4065	34152	1439	31.9	98/100														
	23800	63.7	6547	4561	38320	1498	35.4	99/102																					
330QMXHPVP27L	15400	41.4	3168	2562	21523	923	8.18	86/87	41.0	3168	2522	21191	1043	12.2	88/90	41.0	3168	2522	21192	1253	20.9	94/95							
	18800	47.7	3868	3126	26268	1075	12.7	89/92	47.6	3868	3114	26164	1179	17.3	92/94	47.1	3868	3070	25799	1366	27.5	96/98	47.2	3868	3079	25868	1532	38.3	100/101
	22200	53.9	4567	3683	30947	1233	18.8	94/96	54.0	4567	3692	31024	1324	24.1	95/97	53.5	4567	3641	30590	1492	35.6	99/100							
	25600	60.2	5266	4240	35623	1396	26.9	97/100	60.4	5266	4257	35773	1475	32.8	99/101														
	29000	66.4	5966	4797	40305	1562	37.3	101/103																					
330QMXHPVP30H	17600	46.9	3898	2666	29444	1030	11.4	91/91	46.3	3898	2623	28965	1135	15.8	95/92	45.4	3898	2553	28197	1326	25.4	96/96	44.8	3898	2507	27686	1498	35.9	100/100
	20400	52.2	4518	3086	34080	1160	16.0	94/94	52.1	4518	3073	33945	1255	21.0	97/96	51.0	4518	2986	32985	1426	31.7	99/99							
	23200	57.5	5138	3501	38669	1294	22.0	96/97	57.7	5138	3512	38785	1379	27.5	99/99	56.7	5138	3436	37954	1536	39.3	102/101							
	26000	62.8	5759	3916	43250	1430	29.4	99/101	63.1	5759	3936	43476	1507	35.6	101/101														
	28800	68.1	6379	4331	47832	1568	38.5	102/103																					
330QMXHPVP30L	21600	48.4	3722	2790	30820	1108	13.5	91/93	48.4	3722	2788	30787	1203	18.3	93/94	47.5	3722	2720	30040	1379	29.1	96/98							
	24500	53.1	4221	3158	34883	1232	18.1	94/96	53.3	4221	3168	34986	1317	23.5	96/97	52.7	4221	3123	34492	1478	35.3	98/100							
	27400	57.9	4721	3526	38948	1357	23.9	97/99	58.1	4721	3544	39137	1436	29.8	99/100														
	30300	62.6	5221	3894	43007	1484	30.9	100/102	62.8	5221	3915	43241	1557	37.4	101/103														
	33200	67.3	5720	4263	47078	1613	39.3	103/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{wI}$ A and outlet  $L_{wO}$ A sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

## 365 QMXHPVP

Mode	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
365QMXHPVP27H	14900	43.2	4099	2571	21601	835	10.1	85/88	42.7	4099	2519	21168	950	14.6	89/91														
	18100	49.4	4979	3126	26269	966	15.7	89/92	49.2	4979	3107	26104	1066	20.8	91/93	48.2	4979	3015	25332	1240	32.0	96/97	48.2	4979	3017	25349	1406	44.5	100/101
	21300	55.6	5860	3676	30886	1103	23.3	92/96	55.6	5860	3676	30888	1190	29.2	94/97	54.8	5860	3605	30292	1351	42.0	98/100							
	24500	61.7	6740	4224	35496	1245	33.5	95/100	61.8	6740	4233	35571	1321	40.0	97/101														
	27700	67.8	7620	4773	40102	1389	46.5	98/103																					
365QMXHPVP27L	17300	43.4	3559	2583	21706	832	9.81	85/88	43.1	3559	2557	21484	942	14.3	88/90	42.8	3559	2530	21256	1137	24.7	93/94							
	21100	50.1	4341	3183	26748	969	15.4	89/92	49.4	4341	3122	26230	1063	20.5	91/93	49.4	4341	3120	26215	1232	32.1	95/97	49.0	4341	3084	25909	1390	45.1	99/100
	24900	56.6	5122	3763	31622	1110	22.8	92/96	56.1	5122	3722	31274	1192	28.8	94/97	55.6	5122	3679	30910	1345	41.8	97/99							
	28700	63.0	5904	4340	36467	1256	32.8	95/100	62.8	5904	4324	36329	1328	39.6	97/100														
	32500	69.4	6686	4914	41292	1404	45.5	99/103																					
365QMXHPVP30H	19800	48.5	4385	2700	29824	917	13.4	87/90	47.9	4385	2658	29361	1017	18.5	90/92	46.4	4385	2541	28062	1194	29.4	95/95							
	23000	54.0	5094	3133	34606	1034	19.1	90/94	53.8	5094	3121	34467	1122	24.8	92/95	52.6	5094	3023	33384	1286	37.0	96/98							
	26200	59.5	5803	3563	39358	1154	26.3	93/97	59.6	5803	3570	39434	1233	32.8	95/98	58.6	5803	3496	38616	1382	46.3	98/100							
	29400	65.0	6512	3993	44100	1277	35.5	96/100	65.2	6512	4009	44279	1347	42.5	98/100														
	32600	70.5	7220	4422	48836	1400	46.5	99/103																					
365QMXHPVP30L	23400	50.1	4032	2828	31231	973	15.0	90/91	49.9	4032	2814	31077	1066	20.5	91/92	48.4	4032	2693	29743	1227	32.1	95/96	47.0	4032	2589	28590	1378	45.0	99/99
	26500	54.9	4566	3202	35367	1078	20.1	92/94	54.8	4566	3198	35325	1162	26.3	94/95	53.8	4566	3116	34415	1311	39.0	97/98							
	29600	59.7	5100	3577	39503	1185	26.3	95/97	59.7	5100	3576	39501	1261	33.2	96/98	59.1	5100	3530	38990	1402	47.2	99/100							
	32700	64.4	5634	3950	43631	1294	33.9	97/99	64.5	5634	3952	43649	1363	41.4	98/100														
	35800	69.2	6168	4325	47772	1404	43.0	99/102																					
365QMXHPVP36H	28900	59.9	4227	2640	47611	1123	23.9	93/95	59.2	4227	2597	46835	1200	30.4	94/96	58.4	4227	2553	46032	1343	44.7	97/98							
	31000	63.3	4534	2836	51144	1194	28.5	95/96	62.7	4534	2801	50512	1266	35.4	96/97														
	33100	66.7	4841	3031	54657	1265	33.7	97/98	66.2	4841	3003	54148	1333	40.9	98/99														
	35200	70.0	5148	3226	58167	1337	39.6	98/100	69.6	5148	3203	57765	1401	47.2	99/100														
	37300	73.4	5456	3420	61665	1409	46.1	100/101																					
365QMXHPVP36L	35800	62.8	4012	2805	50574	1258	30.0	97/99	62.4	4012	2785	50223	1324	37.6	98/100														
	37000	64.4	4146	2901	52314	1296	32.7	98/100	64.0	4146	2879	51911	1359	40.4	99/101														
	38200	66.1	4281	2997	54038	1334	35.5	99/101	65.7	4281	2974	53634	1395	43.3	100/102														
	39400	67.7	4415	3093	55775	1372	38.4	100/102																					
	40600	69.4	4550	3189	57506	1410	41.5	101/102																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{wA}$  and outlet  $L_{wA}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

## 402 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
402QMXHPVP27H	14500	45.1	3989	2674	22469	765	11.7	86/89	44.6	3989	2634	22131	876	16.9	90/91														
	17400	51.4	4787	3244	27254	875	17.7	90/93	50.8	4787	3186	26773	971	23.5	93/95														
	20300	57.6	5585	3799	31921	989	25.8	93/97	57.0	5585	3741	31431	1074	32.4	95/98	56.3	5585	3685	30961	1233	46.9	100/101							
	23200	63.7	6382	4339	36462	1106	36.2	96/101	63.3	6382	4312	36232	1183	43.7	98/101														
	26100	69.6	7180	4874	40958	1224	49.2	98/104																					
402QMXHPVP27L	16000	43.8	3292	2559	21505	698	9.49	83/85	43.2	3292	2507	21067	811	14.5	88/89														
	20100	51.2	4135	3224	27086	819	15.5	88/91	51.0	4135	3207	26949	918	21.3	91/93	49.6	4135	3079	25871	1086	34.3	96/96	47.9	4135	2933	24645	1235	48.2	100/100
	24200	58.6	4978	3884	32636	949	24.1	91/95	58.5	4978	3874	32551	1031	30.7	93/96	57.9	4978	3823	32121	1187	45.5	98/99							
	28300	65.9	5822	4537	38125	1082	35.8	95/100	65.9	5822	4539	38135	1154	43.4	96/100														
	32400	73.2	6665	5191	43615	1218	51.1	98/103																					
402QMXHPVP30H	18000	48.1	3987	2577	28458	757	12.3	86/88	47.6	3987	2538	28035	862	17.6	89/91														
	21600	54.7	4784	3096	34199	867	18.5	89/92	54.5	4784	3081	34028	959	24.7	92/94	53.4	4784	2992	33045	1125	38.5	96/97							
	25200	61.4	5581	3614	39918	983	27.0	92/96	61.3	5581	3607	39839	1063	34.0	94/97	60.5	5581	3550	39212	1212	49.0	98/99							
	28800	67.9	6379	4128	45598	1100	37.9	95/100	67.9	6379	4127	45583	1172	45.7	97/100														
	32400	74.5	7176	4645	51298	1219	51.5	98/103																					
402QMXHPVP30L	20800	47.8	3584	2551	28171	756	12.1	86/88	47.9	3584	2565	28329	859	17.8	89/90														
	25000	54.6	4307	3089	34118	869	18.2	89/92	54.3	4307	3063	33835	956	24.7	92/94	54.1	4307	3047	33653	1120	38.9	95/96							
	29200	61.5	5031	3624	40026	987	26.4	92/96	60.9	5031	3579	39533	1063	33.8	94/97	61.2	5031	3600	39765	1209	49.5	98/99							
	33400	68.2	5755	4148	45817	1107	36.9	95/100	67.8	5755	4118	45484	1176	45.3	97/100														
	37600	74.8	6478	4670	51575	1229	50.3	98/103																					
402QMXHPVP36H	28800	61.2	4212	2672	48181	900	22.5	90/92	60.0	4212	2604	46953	978	29.5	92/93	58.4	4212	2514	45329	1123	44.8	95/97							
	31900	66.1	4666	2955	53288	979	28.7	92/94	65.6	4666	2928	52809	1052	36.4	94/95	63.0	4666	2775	50047	1185	52.7	97/98							
	35000	70.9	5119	3236	58347	1059	36.2	94/96	70.9	5119	3238	58385	1128	44.7	96/98														
	38100	75.7	5573	3515	63390	1141	45.1	97/99	76.0	5573	3534	63726	1205	54.1	98/100														
	41200	80.5	6026	3794	68422	1223	55.3	98/101																					
402QMXHPVP36L	31400	58.9	3519	2542	45836	876	19.1	90/92	58.5	3519	2519	45429	955	26.1	92/93	58.7	3519	2527	45566	1101	41.3	95/96	59.4	3519	2568	46310	1231	57.5	97/99
	35000	63.9	3922	2829	51016	958	24.6	93/94	63.8	3922	2822	50887	1030	32.2	94/95	63.4	3922	2802	50532	1166	48.7	96/98							
	38600	68.8	4325	3115	56177	1041	31.2	95/97	68.9	4325	3121	56282	1108	39.5	96/98	68.3	4325	3086	55642	1234	57.2	98/100							
	42200	73.7	4729	3401	61333	1126	39.0	97/99	74.0	4729	3416	61602	1188	48.1	98/100														
	45800	78.7	5132	3687	66481	1212	48.3	99/101																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

445 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
445QMXHPVP30H	21600	53.0	4784	2847	31449	702	16.9	90/91	52.8	4784	2832	31279	795	24.0	93/93	52.0	4784	2769	30584	955	39.2	98/97	50.6	4784	2658	29362	1097	56.2	102/101
	26000	60.1	5759	3406	37617	808	25.9	94/95	60.6	5759	3444	38041	889	34.0	96/96	59.7	5759	3368	37198	1032	51.4	100/100	59.0	5759	3317	36635	1163	70.5	103/103
	30400	67.3	6733	3968	43829	918	38.2	97/99	67.8	6733	4008	44271	989	47.3	99/100	67.5	6733	3983	43994	1121	67.1	103/102							
	34800	74.6	7708	4537	50111	1031	54.2	100/103	75.0	7708	4567	50436	1095	64.4	102/103														
	39200	81.9	8682	5108	56412	1146	74.5	103/106																					
445QMXHPVP30L	21600	48.6	3722	2507	27684	634	12.6	86/87	49.0	3722	2537	28021	733	19.0	91/90	48.6	3722	2501	27624	904	33.5	96/96							
	27500	57.3	4738	3181	35135	757	21.4	91/93	57.7	4738	3215	35507	839	29.0	94/95	57.3	4738	3184	35169	988	46.0	99/99	57.3	4738	3187	35195	1121	64.5	102/102
	33400	66.0	5755	3866	42702	886	34.2	95/98	66.0	5755	3865	42685	955	43.0	97/99	67.0	5755	3940	43520	1086	62.2	101/102							
	39300	74.7	6771	4544	50186	1018	51.8	99/102	74.7	6771	4547	50217	1079	62.0	101/103														
	45200	83.4	7788	5221	57666	1152	74.9	102/106																					
445QMXHPVP36H	27900	61.0	4081	2580	46527	762	19.6	88/90	60.7	4081	2567	46288	843	26.7	91/92	60.1	4081	2528	45594	989	42.2	95/96	60.9	4081	2578	46481	1125	60.4	99/100
	32200	67.8	4710	2977	53685	855	27.5	92/93	67.8	4710	2979	53714	928	35.6	93/95	66.5	4710	2902	52339	1058	52.3	97/98							
	36500	74.7	5339	3379	60925	950	37.5	95/96	74.7	5339	3376	60882	1016	46.6	96/97	73.9	5339	3331	60060	1136	65.2	99/100							
	40800	81.7	5968	3781	68187	1047	50.0	98/99	81.5	5968	3773	68035	1107	60.0	99/100														
	45100	88.6	6596	4185	75466	1145	65.1	100/102																					
445QMXHPVP36L	33400	61.4	3743	2606	46988	784	20.3	90/91	61.0	3743	2580	46530	859	27.7	92/93	61.3	3743	2599	46862	999	44.6	95/96							
	37400	67.0	4191	2928	52804	861	26.5	93/94	66.3	4191	2891	52126	928	34.5	94/95	66.9	4191	2927	52787	1057	52.7	97/98							
	41400	72.5	4639	3248	58568	938	33.7	96/97	71.8	4639	3211	57910	1000	42.7	97/98	72.0	4639	3219	58046	1119	62.0	99/100							
	45400	78.0	5087	3567	64317	1017	42.4	98/99	77.5	5087	3537	63786	1075	52.5	99/100														
	49400	83.4	5536	3884	70040	1097	52.8	100/101	83.1	5536	3861	69633	1150	63.6	101/102														

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet L<sub>WA</sub> and outlet L<sub>WA</sub> sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

## 490 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							4.00 SP							6.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
490QMXHPVP36H	27900	62.6	4081	2580	46530	638	20.4	87/89	61.7	4081	2528	45579	717	28.5	90/91	61.7	4081	2526	45556	852	46.1	96/96	63.0	4081	2601	46903	975	65.5	100/101
	33100	70.9	4841	3064	55252	728	30.3	90/93	70.6	4841	3047	54951	798	39.8	93/94	69.3	4841	2967	53497	921	59.4	97/98							
	38300	79.3	5602	3548	63976	821	43.5	94/96	79.2	5602	3541	63862	883	54.1	96/97	77.7	5602	3457	62340	996	76.2	99/100							
	43500	87.6	6362	4032	72717	916	60.3	97/100	87.5	6362	4026	72594	971	72.0	98/101														
	48700	96.0	7123	4518	81472	1012	81.2	100/103																					
490QMXHPVP36L	32500	61.6	3642	2524	45512	630	19.1	87/89	61.3	3642	2506	45195	704	27.0	90/91								62.7	3642	2586	46631	960	65.8	99/100
	38500	70.1	4314	3015	54363	718	27.9	91/93	69.2	4314	2966	53483	786	37.4	93/94	69.6	4314	2984	53809	902	56.7	97/98	69.2	4314	2965	53459	1016	79.9	100/101
	44500	78.3	4987	3493	62997	809	39.5	94/96	77.6	4987	3451	62225	870	50.3	96/97	77.3	4987	3436	61960	976	72.0	99/100							
	50500	86.5	5659	3968	71562	902	54.2	97/99	86.1	5659	3943	71100	957	66.4	99/100														
	56500	94.7	6331	4440	80075	997	72.8	100/102																					
490QMXHPVP49H	50800	76.9	4243	2655	82539	826	39.0	95/96	76.2	4243	2623	81535	881	50.0	97/98	75.5	4243	2592	80575	989	74.1	99/100							
	53800	80.5	4493	2814	87482	868	44.9	97/98	79.9	4493	2788	86683	920	56.4	98/99														
	56800	84.1	4744	2972	92400	911	51.6	98/99	83.6	4744	2952	91773	960	63.6	99/100														
	59800	87.6	4995	3130	97321	954	58.9	100/101	87.3	4995	3114	96804	1000	71.3	100/101														
	62800	91.2	5245	3288	102227	997	66.9	101/102																					
490QMXHPVP49L	60800	78.3	3798	2715	84407	896	46.1	99/100	78.3	3798	2716	84445	943	57.8	99/101														
	62800	80.3	3923	2803	87156	922	49.9	100/101	80.4	3923	2807	87271	968	62.2	100/101														
	64800	82.3	4047	2893	89929	949	54.1	101/102	82.4	4047	2896	90050	993	66.7	101/102														
	66800	84.3	4172	2981	92686	975	58.4	102/103	84.4	4172	2986	92830	1019	71.5	102/103														
	68800	86.3	4297	3070	95445	1002	63.1	103/104																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{WA}$  and outlet  $L_{WO}$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.

# QMXHPVP Performance Data

540 QMXHPVP

Model	Fan Inlet CFM	1.00 SP							2.00 SP							3.00 SP							4.00 SP						
		Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out	Eff Plume Ht	Nozzle Vel	Windband		Fan RPM	Fan BHP	LwA In/Out
				Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM						Outlet Vel	Outlet CFM			
540QMXHPVP36H	27700	62.8	4051	2500	45090	574	22.8	88/92																					
	32600	70.7	4768	2955	53284	646	33.0	91/95	69.9	4768	2912	52515	724	44.4	95/98	69.9	4768	2908	52439	794	56.1	99/101							
	37500	78.5	5485	3406	61426	721	46.3	94/98	78.0	5485	3379	60932	788	58.7	98/101	77.3	5485	3340	60231	856	72.3	101/103							
	42400	86.1	6202	3852	69468	798	63.0	97/101	85.9	6202	3837	69188	858	76.8	100/103														
	47300	93.8	6918	4299	77527	876	83.6	100/104																					
540QMXHPVP36L	33700	63.8	3776	2556	46097	557	22.1	86/90																					
	39700	72.0	4449	3031	54664	628	31.9	90/94	71.1	4449	2980	53734	699	43.4	93/96	70.3	4449	2933	52895	767	55.9	97/99	69.7	4449	2897	52248	831	69.0	100/101
	45700	80.1	5121	3501	63133	701	44.3	93/97	79.4	5121	3459	62379	765	57.3	95/99	78.6	5121	3417	61616	826	71.2	98/101	77.9	5121	3375	60870	884	85.5	101/103
	51700	88.1	5793	3963	71473	776	60.1	96/101	87.6	5793	3937	70989	835	74.8	98/102	86.9	5793	3895	70235	889	89.6	100/103							
	57700	96.0	6466	4425	79799	853	79.8	99/103																					
540QMXHPVP49H	49900	78.6	4168	2636	81945	683	38.7	92/96	77.6	4168	2593	80628	746	51.3	94/98	77.0	4168	2568	79833	806	65.2	97/100	76.4	4168	2539	78936	862	79.6	99/102
	53900	83.3	4502	2847	88505	727	46.4	94/98	82.6	4502	2816	87554	787	60.0	96/100	81.8	4502	2782	86485	843	74.5	98/102							
	57900	88.0	4836	3057	95040	772	55.2	96/100	87.6	4836	3039	94473	829	69.9	98/101	86.7	4836	2999	93245	882	85.0	99/103							
	61900	92.7	5170	3266	101541	818	65.4	98/101	92.6	5170	3259	101330	871	80.8	99/103														
	65900	97.4	5504	3475	108042	864	76.8	99/103																					
540QMXHPVP49L	58500	78.8	3654	2645	82247	699	38.8	94/97	78.6	3654	2639	82054	757	51.7	96/99	78.0	3654	2612	81202	814	65.9	98/101	77.2	3654	2578	80137	868	81.1	99/102
	62500	82.8	3904	2823	87770	739	45.3	95/99	82.8	3904	2825	87844	794	59.1	97/100	82.3	3904	2801	87076	847	73.7	99/102							
	66500	86.8	4154	3001	93299	779	52.6	97/100	87.0	4154	3010	93567	831	67.2	99/102	86.5	4154	2990	92947	881	82.3	100/103							
	70500	90.8	4403	3179	98826	820	60.8	99/102	91.1	4403	3192	99229	869	76.2	100/103														
	74500	94.8	4653	3356	104343	861	69.9	100/103																					

Performance certified is for installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Performance ratings do not include the effects of cross winds. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. Values shown are for inlet  $L_{wI}A$  and outlet  $L_{wO}A$  sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction. Effective Plume Height referenced from base of unit and calculated using Equation 7 from 2007 ASHRAE Application Handbook, Chapter 44, with a 10 MPH wind.



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