



Fan 1680 C 200-240V 50Hz
Fan 1680 M 200-240V 50Hz

34302003
34322133

Images



34302003



34322133

Technical data

Voltage:	200 – 240	[V ac] +/-10%
Phase:	1	
Frequency:	50	[Hz]
Max. current:	5,79	[A]
Current (at 50 Pa and 240V):	4,64	[A]
Input power (at 50 Pa and 240V):	1091	[W]
Shaft power (at 50 Pa and 240V):	742	[W]
Max. input power:	1131	[W]
Max. air volume:	20750	[m ³ /h]
Max. pressure:	113	[pa]
Max. rotations:	914	[RPM]
Capacitor:	16+16	[μF]
Poles:	6	
Cos phi:	0,99	
Controllable:	T,E	Trafo, Electronic
Insulation class:	F	
Protection class:	IP 66	
Sound production (calculated):	69 (58)	[dB(A)]
Impeller:	789 / 5 / 40 / 22	D / n / ° / shaft diameter
Weight 34302003 (excl. pack.):	38,2 / 84	[Kg] / [lbs]
Weight 34322133 (excl. pack.):	34 / 74,9	[Kg] / [lbs]

- Air density 1,2 kg/m³, 1 Pa (Pascal) = 1N/m² ~ 0,102 mm wk. (20°C).
- Sound production is calculated at 0 Pa and at a distance of 2 meter (the value between brackets is calculated at a distance of 7 meter).
- Measurement without protection grid.
- Measurement performed with electronic control.
- According to AMCA 210 / ISO 5801.
- Images may differ slightly from reality.

**Conformity****CE ErP 2015****Data according to ErP directive**

Overall efficiency:	35,7 [%]
Measurement category:	C
Efficiency category:	Static
Efficiency grade (N) at optimum energy efficiency	41,7
Variable speed drive VSD:	No
Year of manufacture:	See typelabel
Commercial registration number:	Fancom B.V. 12015669 Panningen (NL)
Model number:	1680 50Hz
Input power at optimum energy efficiency point:	1131 [W]
Air volume at optimum energy efficiency point:	13020 [m ³ /h]
Pressure at optimum energy efficiency point:	113 [pa]
Rotations at optimum energy efficiency point:	898 [RPM]
Compressibility factor:	0,9883
Information on dismantling, recycling and disposal:	Observe the manual of this product
Information about environment and optimal live:	Observe the manual of this product
Description of additional items used when determining the fan energy efficiency:	No special items have been used

Ambient climate

Operating temperature range:	0°C to +40°C (32°F to +104°F)
Storage temperature range:	-10°C to +50°C (14°F to +122°F)
Relative humidity:	<95%, uncondensed

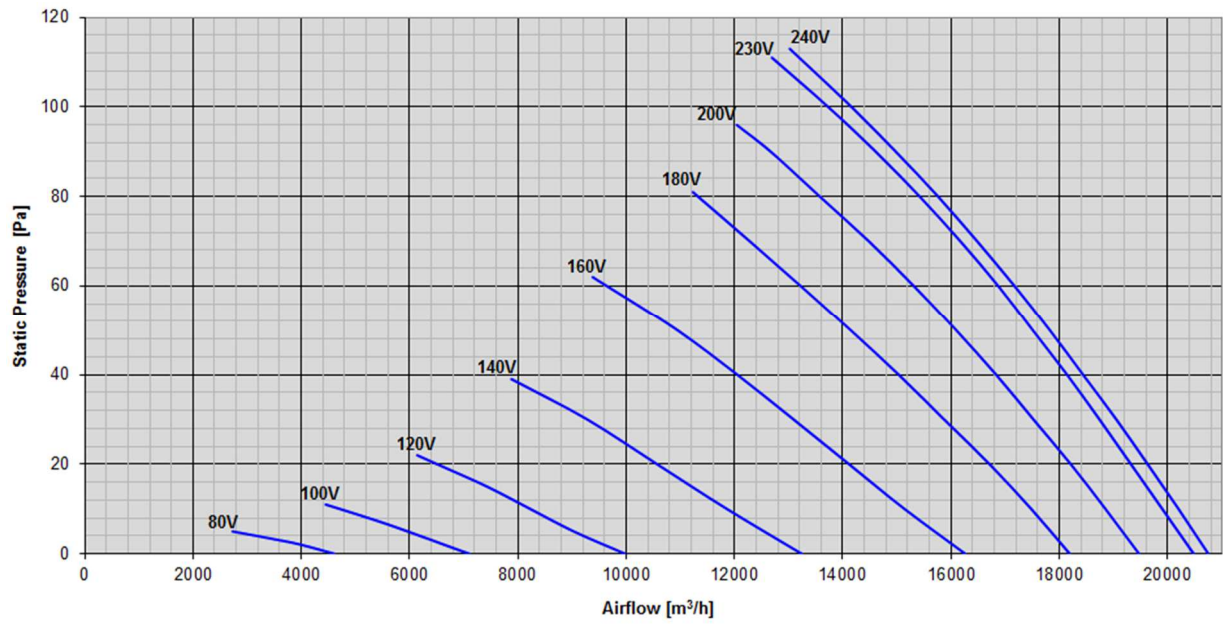


Specifications Fan 1680 50Hz

Spanning Voltage	Druk Pressure	Debiet Airflow	Toerental Rotations	Vermogen Power	Stroom Current	Luchtsnel. Airspeed	Tot. Rendement Tot. Efficiency	Spec. Verm. Spec. Power		
U	p	V	RPM	P	I	v	η_{tot}	P_{spec}		
[V]	[Pa]	[m ³ /h] [m ³ /s]	[1/min]	[W]	[A]	[m/s]	[% at 20°C]	[W/1000m ³ /h]		
240	0	20750	5.76	914	1027	4.38	11.5	44.3	49.5	
	10	20200	5.61	912	1043	4.43	11.2	45.6	51.6	
	20	19630	5.45	909	1057	4.48	10.8	46.7	53.8	
	30	19050	5.29	907	1070	4.53	10.5	47.7	56.2	
	40	18435	5.12	905	1081	4.59	10.2	48.5	58.6	
	50	17820	4.95	903	1091	4.64	9.8	49.1	61.2	
	60	17170	4.77	901	1100	4.69	9.5	49.4	64.1	
	70	16480	4.58	899	1108	4.73	9.1	49.5	67.2	
	80	15760	4.38	898	1115	4.76	8.7	49.3	70.7	
	90	14980	4.16	898	1121	4.78	8.3	48.7	74.8	
	100	14160	3.93	897	1126	4.78	7.8	47.8	79.5	
	110	13283	3.69	898	1130	4.76	7.3	46.5	85.1	
	113	13020	3.62	898	1131	4.76	7.2	46.1	86.9	
230	0	20480	5.69	905	1008	4.63	11.3	43.4	49.2	
	10	19900	5.53	901	1029	4.76	11.0	44.4	51.7	
	20	19320	5.37	897	1046	4.85	10.7	45.4	54.1	
	30	18740	5.21	895	1060	4.91	10.4	46.3	56.6	
	40	18140	5.04	893	1070	4.94	10.0	47.2	59.0	
	50	17505	4.86	892	1077	4.95	9.7	47.9	61.5	
	60	16870	4.69	890	1083	4.96	9.3	48.5	64.2	
	70	16170	4.49	889	1087	4.95	8.9	48.7	67.2	
	80	15420	4.28	888	1089	4.94	8.5	48.6	70.6	
	90	14610	4.06	887	1091	4.93	8.1	48.0	74.7	
	100	13730	3.81	886	1092	4.93	7.6	47.0	79.5	
	111	12690	3.53	885	1094	4.94	7.0	45.3	86.2	
	200	0	19470	5.41	862	932	5.16	10.8	40.3	47.9
10		18850	5.24	856	950	5.25	10.4	41.4	50.4	
20		18210	5.06	851	964	5.31	10.1	42.4	52.9	
30		17520	4.87	847	975	5.36	9.7	43.1	55.6	
40		16830	4.68	842	985	5.41	9.3	43.6	58.5	
50		16090	4.47	839	992	5.44	8.9	43.9	61.7	
60		15310	4.25	836	997	5.47	8.5	43.9	65.1	
70		14480	4.02	833	1002	5.50	8.0	43.5	69.2	
80		13575	3.77	832	1007	5.54	7.5	42.6	74.2	
90		12670	3.52	830	1012	5.57	7.0	41.5	79.9	
96		12040	3.34	830	1016	5.59	6.7	40.3	84.4	
180		0	18190	5.05	808	852	5.34	10.1	36.0	46.8
		10	17480	4.86	799	870	5.43	9.7	36.8	49.8
	20	16710	4.64	790	884	5.51	9.2	37.4	52.9	
	30	15870	4.41	783	893	5.57	8.8	37.6	56.3	
	40	15030	4.18	775	902	5.62	8.3	37.7	60.0	
	50	14140	3.93	770	909	5.67	7.8	37.4	64.3	
	60	13220	3.67	766	915	5.71	7.3	36.9	69.2	
	70	12280	3.41	765	922	5.75	6.8	36.1	75.1	
	80	11325	3.15	766	930	5.79	6.3	35.0	82.1	
	81	11230	3.12	766	931	5.79	6.2	34.9	82.9	
	160	0	16260	4.52	723	757	5.42	9.0	28.9	46.6
		10	15140	4.21	701	765	5.51	8.4	28.6	50.5
		20	14115	3.92	689	773	5.57	7.8	28.7	54.7
30		13090	3.64	676	780	5.62	7.2	28.6	59.6	
40		12050	3.35	670	787	5.66	6.7	28.3	65.3	
50		10940	3.04	665	793	5.71	6.0	27.6	72.5	
60		9640	2.68	662	799	5.77	5.3	25.8	82.9	
62		9380	2.61	661	800	5.78	5.2	25.4	85.3	
140		0	13240	3.68	592	616	5.25	7.3	19.2	46.5
		10	11860	3.29	566	622	5.30	6.6	18.9	52.4
		20	10570	2.94	555	627	5.35	5.8	19.0	59.3
		30	9280	2.58	543	632	5.39	5.1	18.7	68.1
		39	7880	2.19	536	635	5.43	4.4	17.4	80.6
120	0	9980	2.77	449	452	4.74	5.5	11.2	45.3	
	5	9030	2.51	429	449	4.74	5.0	11.1	49.7	
	10	8230	2.29	423	454	4.77	4.5	11.3	55.1	
	15	7430	2.06	416	458	4.79	4.1	11.3	61.6	
	20	6509	1.81	412	459	4.80	3.6	10.9	70.6	
	22	6140	1.71	411	460	4.80	3.4	10.7	74.9	
	100	0	7100	1.97	322	296	3.99	3.9	6.2	41.7
4		6190	1.72	307	298	4.00	3.4	6.4	48.1	
7		5490	1.53	300	299	4.01	3.0	6.4	54.5	
11		4450	1.24	297	299	4.00	2.5	6.0	67.2	
80	0	4610	1.28	212	169	3.11	2.5	3.0	36.7	
	2	4000	1.11	204	172	3.13	2.2	3.2	43.0	
	3	3610	1.00	201	173	3.14	2.0	3.1	47.9	
	5	2730	0.76	200	177	3.18	1.5	2.7	64.8	



Fan characteristic



Specific power

