



Pulse-Width Modulation (PWM) Technology

Benefits of Delta's Advanced PWM Control:

- Advanced soft-switching control (*available on select models*)
- Wide PWM frequency input range: **30 Hz – 30 kHz**
- Flexible and precise speed control
- Prevention of current spikes
- Low switching noise
- Reduced vibration
- High power efficiency

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Advanced Cooling Solutions Deliver Superior Performance with Greater Efficiency

The PWM Advantage

Pulse Width Modulation (PWM) technology precisely controls fan speed by rapidly switching the voltage signal between fully on and fully off. This method significantly reduces power loss—when the switch is off, there's virtually no current; when it's on, there's almost no voltage drop. The result? **Near-zero power loss and maximum energy Efficiency.**

Energy Savings & Extended Lifespan

Delta's advanced thermal technology delivers **superior performance**, exceptional reliability, and cost-effective cooling solutions. PWM plays a key role in enhancing fan efficiency and durability, giving Delta fans a clear edge over the competition.



A Full Range of PWM-Controlled DC Fans

Delta offers a comprehensive lineup of PWM speed control fans, with sizes ranging from **36×36×28 mm** to **280×280×162 mm**, making them ideal for a wide variety of applications.

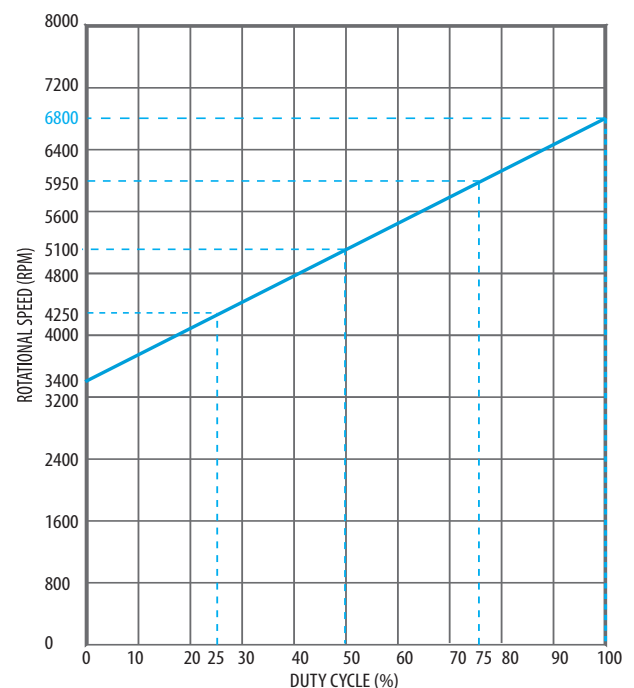
Speed vs PWM Control Signal:

(at rated voltage 48V; PWM signal with 3.3 VDC TTL;
Frequency: 2K Hz; Temperature: 25C)

Duty Cycle (%)	Speed (RPM +/-10%)	Current (A)	Noise (dB-A)
100	6800	0.14	46.5
75	5950	0.09	43.5
50	5100	0.06	40.5
25	4250	0.03	36.5
0	3400	0.02	32.0

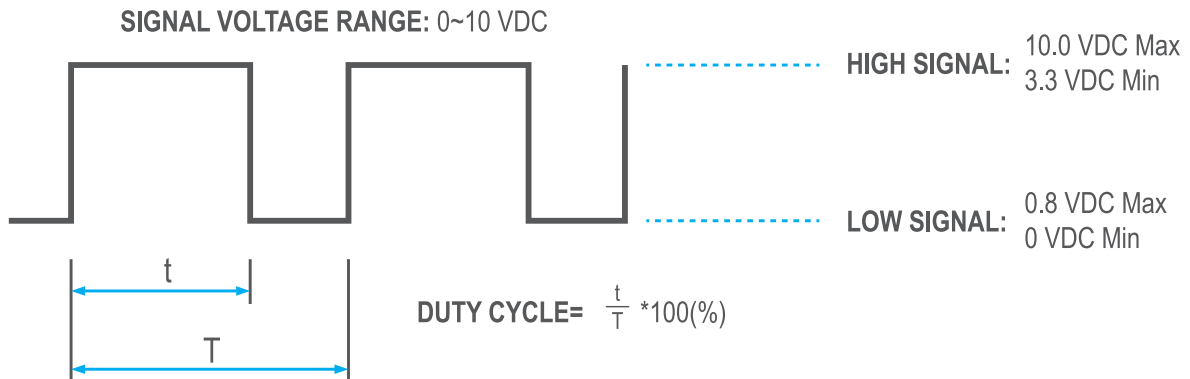
* Above referenced part number AFB0648EH-TP27

PWM DC Fan Curve – Speed Characteristics



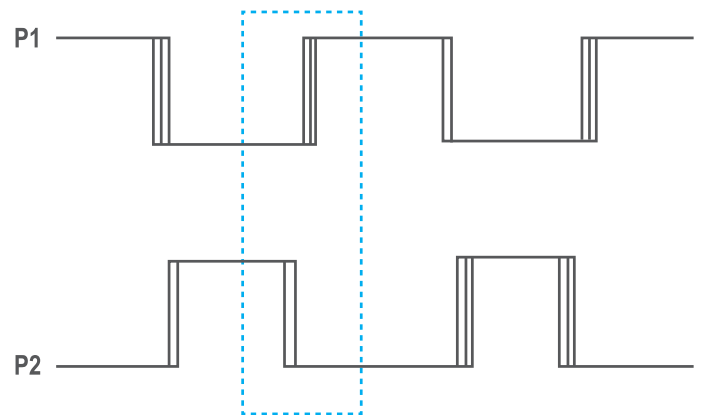
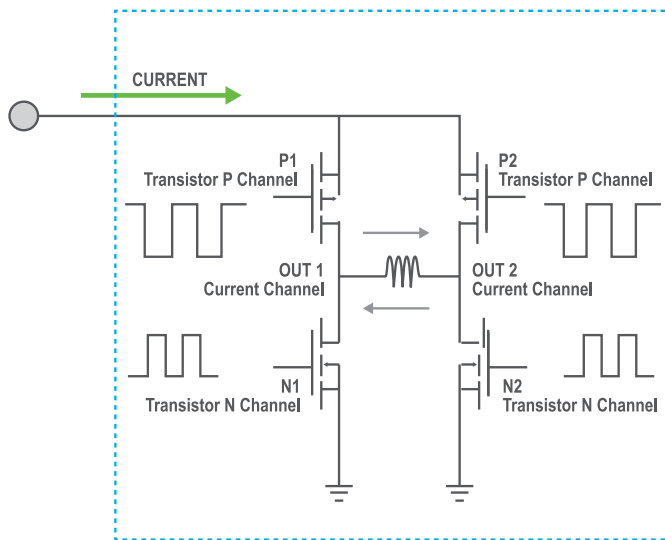
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PWM Input Signal

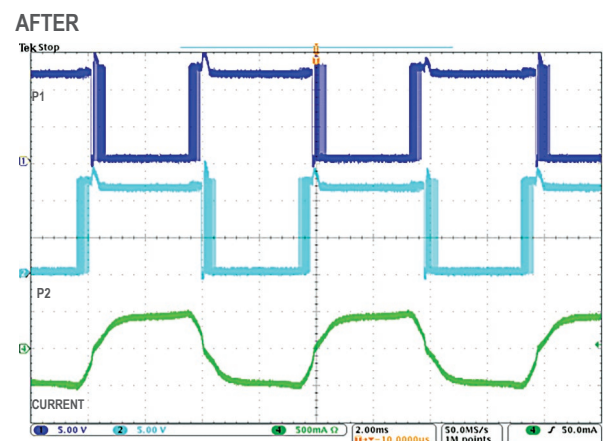
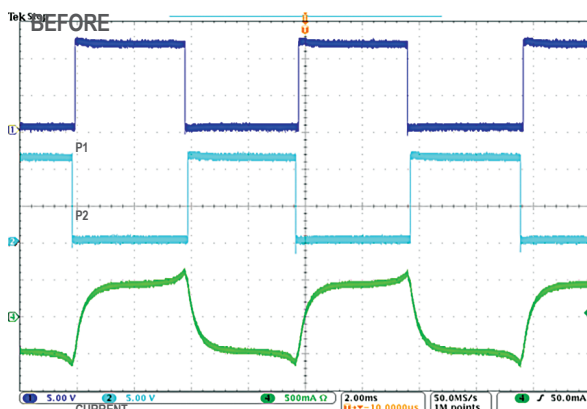


Delta Advance PWM Control

Delta internally developed an advanced PWM circuit control utilizing soft switching to regulate resulting in a smooth current signal to fan, further reducing vibration and noise.



SOFT SWITCHING CONTROL



Pulse Width Modulation (PWM) Technology

PWM Fans

Part Number	Dimension (mm)	Operating Voltage Range (VDC)	Voltage (VDC)	Bearing Type	Current (A)	Power (W)	Speed (RPM)	Noise (dB-A)	Air Flow (CFM)	Air Pressure (in H2O)
BSB0205HP-00EFG	20x20x5	36.0 - 75.0	5	Ball	0.08	0.40	12000	35.9	0.57	0.144
KDB0305HA3-00	30x30x3.4	4.5 - 5.5	5	Ball	0.35	1.75	12500	42	0.95	0.946
ASB0305HP-00	30x30x6.9	4.5 - 5.5	5	Superflo	0.20	1.00	9500	29	5.10	0.156
FFB03812VHN-9C3P	38x38x28	7.0 - 13.2	12	Ball	0.55	4.68	14500	50	16.30	1.000
FFB03812VN-SPC	38x38x28	7.0 - 13.2	12	Ball	0.85	7.56	19000	58	20.94	1.691
FFB03612EHN-BGA	36x36x28	10.8 - 13.2	12	Ball	0.39	4.68	14500	50	16.30	1.000
FFB03612VN-00	36x36x28	10.8 - 13.2	12	Ball	0.39	4.68	14500	52	16.30	1.000
FFB03612EHNYCL	36x36x28	10.8 - 13.2	12	Ball	0.63	7.56	19000	58	20.94	1.691
KSB0405HBF0D	Round 40x8.5	3.0 - 5.50	5	Sleeve	0.16	0.80	3150	31	1.19	0.008
AFB0705MC-00F0R	Round 40x8.5	4.5 - 5.5	5	Ball	0.22	2.16	5000	28.5	4.29	0.171
KFB04512HHAF0C	Round 40x8.5	5.0 - 12.5	12	Ball	0.15	1.80	3300	36.7	9.15	0.634
KFB0612HAFDB	Round 40x8.5	7.0 - 13.6	12	Ball	0.15	1.10	2900	28.1	22.09	0.093
AFB0412VA-00	40x40x10	10.8 - 13.8	12	Ball	0.05	0.60	7000	31.5	8.15	0.190
AFB0412VHA-DU48	40x40x10	7.0 - 15.0	12	Ball	0.06	1.08	8000	33	8.81	0.224
AFB0412SHB-SP04	40x40x15	7.0 - 13.8	12	Ball	0.25	3.00	11000	41.5	14.83	0.601
AFB0412VHB-TP29	40x40x15	7.0 - 13.8	12	Ball	0.18	2.16	9500	36.5	13.00	0.459
EFB0412VD-00	40x40x20	36.0 - 75.0	12	Ball	0.12	1.44	9000	34.5	10.10	0.416
EFB0412VHD-SP05	40x40x20	7.0 - 15.0	12	Ball	0.43	5.16	15600	52	20.56	1.385
EFB0424HD-CP5	40x40x20	7.0 - 15.0	12	Ball	0.43	5.16	15600	52	20.56	1.385
EFB0424LD-CP5	40x40x20	14.0 - 26.5	24	Ball	0.06	1.44	9000	37.3	9.36	0.368
EFB0424VHD-CP0	40x40x20	7.0 - 13.2	12	Ball	0.15	1.20	8200	31	9.33	0.366
EFB0424VHD-CP5	40x40x20	14.0 - 26.4	24	Ball	0.05	1.20	7600	31	7.50	0.251
THA0412AD	40x40x20	14.0 - 26.4	24	Ball	0.03	1.20	5500	31	5.15	0.121
THA0412AD-TZW3	40x40x20	14.0 - 26.4	24	Ball	0.03	1.44	9000	37.3	9.39	0.368
FFB0412VN-00	40x40x28	5.0 - 13.8	12	Ball	0.83	20.64	26500	66.5	35.42	4.880
FFB0412VHN-TP03	40x40x28	7.0 - 13.2	12	Ball	0.16	31.20	32500	70.5	38.00	7.430
TFA0412CN-CN	40x40x28	7.0 - 13.2	12	Ball	0.60	6.00	16000	54.5	21.83	1.431
FFB0412UHN-SP4Z	40x40x28	7.0 - 13.2	12	Ball	0.84	5.04	15600	50.8	22.20	1.617
THA0412BN	40x40x28	7.0 - 13.2	12	Ball	0.89	7.20	17600	55	25.29	1.868
TFA0412BN-CN	40x40x28	8.0 - 13.2	12	Ball	0.42	10.68	19000	59	29.52	2.400
FFB0412EN-00Y2E	40x40x28	10.8 - 13.2	12	Ball	1.45	6.60	18000	56.5	23.66	2.330
FFB0412SN-00Y2F	40x40x28	10.8 - 13.2	12	Ball	0.93	1.92	9500	45	15.79	0.509
PFB0412EHN-TP06	40x40x28	10.8 - 13.2	12	Ball	0.50	10.08	23000	59.9	26.55	3.150
PFB0412EN-E	40x40x28	10.8 ~ 13.2	12	Ball	4.00	11.16	22000	61.5	29.23	3.460
TFC0424EN-01EGG	40x40x28	22.0 - 26.0	24	Ball	0.25	17.40	25000	64	32.90	4.440
FFB0448EN-00EEY	40x40x28	36.0 - 60.0	48	Ball	0.43	6.00	18300	55	21.11	1.979
PFM0412HSA05	40x40x56	10.8 - 13.2	12	Ball	1.00	12.00	24000	59.5	28.89	3.530
GFB0412ES-E	40x40x56	10.8 ~ 13.2	12	Ball	3.25	39.00	29500	73	33.90	6.440
GFC0412DS-DF00	40x40x56	10.8 - 12.6	12	Ball	1.30	15.60	16000	64.5	32.17	2.631
EFB0512VA-00	50x50x10	10.8 - 12.6	12	Ball	0.20	1.56	6500	33.5	13.57	0.232
BFB04512HHA-CZ0T	45x45x10.30	50.0~13.5	12	Ball	0.14	1.68	6100	36	3.60	0.598
BFB04512HHA-DV52	45x45x10.30	5.0 - 13.5	12	Ball	0.14	1.68	6100	36	3.60	0.598
BFB0512HA-CX3D	50x50x10.30	10.8 - 13.2	12	Ball	0.12	1.44	5100	32.5	3.53	0.563
AUC0512DB-AF00	50x50x15	10.8 - 13.2	12	Superflo	0.18	2.16	7400	38.5	20.22	0.299
AFC0612DB-F00	60x60x15	8.0 - 13.2	12	Ball	0.33	3.96	7200	47.5	29.24	0.517
AFB0512HB-TP41	60x60x25.40	10.8 - 13.2	12	Ball	0.10	6.24	9000	50	41.30	0.742
AFC0612D-SP07	60x60x25.40	10.8 - 13.8	12	Ball	0.13	1.56	4250	34	23.38	0.211
QFR0624DHP0	60x60x25.40	16.0 - 26.4	24	Ball	0.35	6.72	6800	46.5	38.35	0.544
QFR0624DHP5	60x60x25.40	16.0 - 26.4	24	Ball	0.35	5.76	6800	46.5	38.35	0.544
QFR0624EHP0	60x60x25.40	16.0 - 26.4	24	Ball	0.10	1.44	6300	34	17.97	0.230
QFR0624EHP6	60x60x25.40	16.0 - 26.4	24	Ball	0.10	8.40	10600	55	49.50	1.043
QFR0624GHP0	60x60x25.40	16.0 - 26.4	24	Ball	0.16	5.52	9000	50	42.00	0.767
QFR0624GHP6	60x60x25.40	16.0 - 26.4	24	Ball	0.16	3.84	7600	47	34.78	0.570
QFR0624UHP0	60x60x25.40	16.0 - 26.4	24	Ball	0.23	2.40	6000	39.5	27.50	0.360
QFR0624UHP6	60x60x25.40	16.0 - 26.4	24	Ball	0.26	8.40	10600	55	49.50	1.043
AFB0624EH-SP50	60x60x25.40	21.6 - 26.4	24	Ball	0.24	2.40	6000	39.5	27.50	0.349

Part Number	Dimension (mm)	Operating Voltage Range (VDC)	Voltage (VDC)	Bearing Type	Current (A)	Power (W)	Speed (RPM)	Noise (dB-A)	Air Flow (CFM)	Air Pressure (in H2O)
AFB0648EH-TP27	60x60x25.40	36.0 - 60.0	48	Ball	0.14	3.84	7600	47	34.78	0.547
PFR0612DHE-SP00	60x60x38	7.0 - 13.2	12	Ball	1.60	19.20	14500	63.3	65.98	2.502
PFR0612XHE-SP00	60x60x38	7.0 - 13.2	12	Ball	2.30	27.60	16500	67.7	76.16	3.185
PFB0612EE-E	60x60x38	10.8 - 13.2	12	Ball	3.50	28.80	19500	69	76.98	4.830
PFC0612DE-F00	60x60x38	10.8 - 13.2	12	Ball	1.40	42.00	25500	68.6	77.31	7.310
PFM0612XHEB7T	60x60x38	10.8 - 12.6	12	Ball	1.15	16.80	12000	61.5	67.85	2.129
PFR0648SE-00EP3	60x60x38	36.0 - 60.0	48	Ball	0.60	16.32	14700	61.5	68.60	2.886
THB0648BE	60x60x38	36.0 - 60.0	48	Ball	0.34	13.8	18500	65.1	64.44	2.343
GFB0612ES-E	60x60x56	10.8 - 13.2	12	Ball	4.15	49.8	24300	82	76.51	9.730
AFC0712DB-F00	70x70x15	8.0 - 13.2	12	Ball	0.35	4.20	6000	46.5	41.95	0.327
AFC0712DD-TP10	70x70x20	8.0 - 13.2	12	Ball	0.35	4.20	5000	44.3	46.86	0.285
AFB0712SHX02	70x70x25.40	5.0 - 13.8	12	Ball	0.65	7.80	6300	50.5	61.05	0.625
EFC0812DB-F00	80x80x15	7.0 - 12.6	12	Ball	0.33	3.96	3800	41	48.80	0.171
AFB0824SHBAV1	80x80x15	14.0 - 26.0	24	Ball	0.16	4.08	4000	42.5	42.73	0.216
AUB0812HHDXHN	80x80x20	10.8 - 12.6	12	Superflo	0.30	3.60	4500	43	51.46	0.291
FFB0812XHXHC	80x80x25	7.0 - 15.0	12	Ball	1.00	5.52	5300	49.6	62.18	0.475
AUB0812VH-SP00	80x80x25	10.8 - 13.2	12	Superflo	0.19	12.00	9000	59	92.69	1.102
QFR0824HHP6	80x80x25	14.0 - 26.4	24	Ball	0.08	2.28	3600	39	42.02	0.217
QFR0824SHP6	80x80x25	14.0 - 26.4	24	Ball	0.15	1.92	3300	36.4	38.50	0.193
QFR0824UHP6	80x80x25	14.0 - 26.4	24	Ball	0.23	3.60	4300	44.2	50.30	0.318
QFR0824UHP0	80x80x25	14.0 - 27.6	24	Ball	0.23	5.52	5400	50	65.55	0.488
QFR0824SHP0	80x80x25	14.0 - 27.6	24	Ball	0.15	3.60	4300	44.2	52.38	0.324
QFR0824HHP0	80x80x25	14.0 - 27.6	24	Ball	0.23	5.52	3300	50	39.60	0.488
QFR0812SH-CX13	80x80x25.40	5.0 - 13.2	12	Ball	0.33	0.20	3150	31.5	33.50	0.141
AUB0812EJ-00	80x80x25.40	7.0 - 13.2	12	Ball	1.00	1.56	3150	31.5	33.50	0.141
QFR0812GJ-00P0	80x80x25.40	7.0 - 13.8	12	Ball	0.97	8.40	4500	43.5	49.10	0.283
QFR0812GJ-00P6	80x80x25.40	7.0 - 13.8	12	Ball	0.66	3.60	4300	44.2	52.38	0.324
QFR0812LJ-00P0	80x80x25.40	7.0 - 13.8	12	Ball	0.66	6.60	4500	46.5	69.50	0.297
QFR0812UH-CX14	80x80x25.40	10.8 - 12.6	12	Ball	0.55	3.96	4300	41.2	54.57	0.331
QFR0812LJ-00P6	80x80x25.40	10.8 - 13.8	12	Ball	0.13	11.64	8000	57.5	88.44	0.805
QFR0812MJ-00P0	80x80x25.40	10.8 - 13.8	12	Ball	0.20	6.60	5600	50.5	70.24	0.551
QFR0824SHP5	80x80x25.40	16.0 - 26.4	24	Ball	0.35	7.92	7000	50	78.80	6.347
PFC0812DE-SP07	80x80x38	7.0 - 13.2	12	Ball	0.80	16.32	7000	57.9	96.78	1.148
PFR0812XHE-SP00	80x80x38	9.0 - 12.6	12	Ball	3.50	180.00	15000	78.5	195.00	7.480
PFB0812UHE-EP	80x80x38	10.2 - 13.8	12	Ball	0.99	7.68	4900	48.5	68.51	0.591
PFM0812HE-01BFY	80x80x38	10.8 - 12.6	12	Ball	4.30	48.00	16800	78	129.98	7.142
PFB0812DHE-TYNT	80x80x38	10.8 - 13.2	12	Ball	2.75	26.40	9500	60	128.00	1.476
PFC0812DE-SP04	80x80x38	10.8 - 13.2	12	Ball	2.75	33.00	9000	66	132.60	2.030
QFR0812UHEYDW	80x80x38	10.8 - 13.2	12	Ball	1.15	11.88	6550	57.5	91.87	0.974
PFB0824DHEYDG	80x80x38	12.0 - 27.6	24	Ball	1.35	33.00	9000	65	132.56	2.030
PFB0824DHEP5	80x80x38	14.0 - 26.4	24	Ball	1.26	9.60	6000	54.4	86.65	0.895
PFB0824GHEP6	80x80x38	14.0 - 26.4	24	Ball	0.45	42.00	13300	71.5	134.29	3.000
PFB0824UHEP5	80x80x38	14.0 - 26.4	24	Ball	1.26	48.00	13800	73	144.18	3.457
PFB0824UHEP6	80x80x38	14.0 - 26.4	24	Ball	0.68	13.80	9000	60	105.21	1.335
PFB0824DHEP0	80x80x38	14.0 - 27.6	24	Ball	1.26	30.24	9000	65	132.56	2.030
PFB0824UHEP0	80x80x38	14.0 - 27.6	24	Ball	0.77	18.48	7500	61	107.30	1.368
FFB0848SHE-TP36	80x80x38	28.0 - 56.0	48	Ball	0.16	51.60	16300	77	129.42	4.969
PFR0848XHE-DV82	80x80x38	36.0 - 56.0	48	Ball	1.00	30.24	9000	65	132.56	2.030
PFR0848HE-02EM2	80x80x38	36.0 - 60.0	48	Ball	1.00	10.80	6100	55.5	86.44	0.898
THD0848ME	80x80x38	36.0 - 75.0	48	Ball	0.55	30.24	7500	65	107.30	1.368
GFC0812DS-CMA8	80x80x56	10.8 - 12.6	12	Ball	2.17	57.60	15000	79	135.73	6.347
GFM0812DS-SMB7R	80x80x56	10.8 - 13.2	12	Ball	2.40	28.80	12500	73.3	93.23	4.485
GFB0812ES-E	80x80x56	10.8 - 13.2	12	Ball	4.50	134.40	15000	78	185.00	7.000
GFC0848SS-00EQR	80x80x56	36.0 - 60.0	48	Ball	1.20	62.40	12000	74.5	167.02	4.170
THD0812VE-00	80x80x80	10.8 - 13.2	12	Ball	15.00	32.40	9000	65	132.56	2.030
GFC0812DW-SM00B7P	80x80x80	10.8 - 12.6	12	Ball	5.20	54.00	16300	79	136.00	5.899
PFB0812EE-E	80x80x80	10.8 - 13.2	12	Ball	4.00	48.00	16800	73	129.56	6.010
FA482A08-J1A	80x80x80	36.0 - 60.0	48	Ball	2.80	18.00	13800	82.5	190.63	5.749
GFM0812DUB7S	80x80x86	10.8 - 12.6	12	Ball	9.00	26.04	12000	72.6	90.12	3.827
AUB0912HJ-00	92x92x25	10.8 - 13.2	12	Superflo	0.35	4.20	4600	45.00	69.02	0.407
AUB0912VH-CX09	92x92x25	10.8 - 13.2	12	Superflo	0.38	4.56	3800	45	67.80	0.302
GFC0948SS-00F4N	92x92x25	36.0 - 60.0	48	Ball	1.00	48.00	11000	79	185.00	4.920

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QFR0912GJ-00P0	92x92x25.40	7.0 - 13.8	12	Ball	0.71	4.80	4200	45	70.24	0.551
QFR0912MJ-00P0	92x92x25.40	7.0 - 13.8	12	Ball	0.43	8.52	5600	51	93.67	0.513
AFC0912D-AF00	92x92x25.40	8.0 - 13.2	12	Ball	0.75	5.16	4700	47.5	82.45	0.394
QFR0912VH-SP00	92x92x25.40	10.8 - 13.2	12	Ball	0.40	9.00	4800	53	102.59	0.526
FFC0948BY7T	92x92x25.40	36.0 - 75.0	48	Ball	0.17	8.16	3900	49.5	86.40	0.355
EUB0912HF-03P1	92x92x32	10.8 - 13.2	12	Sleeve	0.13	1.44	3350	33.5	47.00	0.227
PFR0912XHE-SP00	92x92x38	7.0 - 13.2	12	Ball	3.70	27.60	10700	64	145.54	2.334
PFR0912SE-00	92x92x38	10.8 - 13.2	12	Ball	2.90	12.00	4800	55	110.18	0.665
FFB0924EHE-SP20	92x92x38	21.6 - 26.4	24	Ball	0.50	28.80	7500	67	159.36	1.528
PFB0924DHEP0	92x92x38	21.6 - 26.4	24	Ball	1.45	52.80	13500	71	182.41	3.435
PFB0924DHEP6	92x92x38	21.6 - 26.4	24	Ball	1.10	24.96	7000	64	153.52	1.449
PFB0924DHEP5	92x92x38	21.6 - 26.4	24	Ball	1.45	44.40	11500	71	185.55	2.523
PFB0924EHEP5	92x92x38	21.6 - 26.4	24	Ball	0.42	52.80	13500	71	182.41	3.435
PFB0924EHEP6	92x92x38	21.6 - 26.4	24	Ball	0.33	34.80	8000	66.5	175.03	1.819
PFB0924GHEP5	92x92x38	21.6 - 26.4	24	Ball	0.65	26.40	7200	63.7	151.50	1.395
THD0924HEP5	92x92x38	21.6 - 26.4	24	Ball	1.15	34.80	13000	72.5	143.25	3.724
THD0924HEP6	92x92x38	21.6 - 26.4	24	Ball	1.15	34.80	8000	66.5	175.03	1.819
AFC0948DE-TP20	92x92x38	36.0 - 75.0	48	Ball	0.60	7.92	4800	54	103.67	0.691
THD0948HE-A	92x92x38	36.0 - 75.0	48	Ball	1.10	7.92	4800	54	103.67	0.691
PFB0948UHE-TP16	92x92x38	36.0 - 75.0	48	Ball	0.52	15.60	6000	60.5	124.19	1.004
THD0948HE-AXHH	92x92x38	36.0 - 75.0	48	Ball	1.10	27.60	10700	64	145.54	2.334
THB1212B-AXHF	120x120x25.40	7.0 - 15.0	12	Ball	1.60	8.40	4300	50	119.20	0.476
FFC1212D-F00	120x120x25.40	10.8 - 12.6	12	Ball	1.45	19.20	5300	59	184.20	0.899
AFC1212D-SP19	120x120x25.40	10.8 - 12.6	12	Ball	0.32	17.40	4000	56.4	150.33	0.489
AFB1212EJ-01	120x120x25.40	10.8 - 12.6	12	Ball	1.50	3.84	3000	46	89.70	0.338
AFB1212HJ-00	120x120x25.40	10.8 - 13.2	12	Ball	1.20	22.8	8300	65	174.73	2.139
THB1224B-PM00	120x120x25.40	18.0 - 27.5	24	Ball	0.95	19.20	5300	59	186.57	0.962
THB1248B-A	120x120x25.40	36.0 - 75.0	48	Ball	0.40	13.20	4500	58.5	145.4	0.724
AFB1212HHEVAH	120x120x38	7.0 - 13.2	12	Ball	0.45	10.08	4000	57	140.87	0.766
QFR1212GHE	120x120x38	8.0 - 13.2	12	Ball	1.80	50.40	7500	70	265.43	2.07
PFC1212DE-F00	120x120x38	8.0 - 13.2	12	Ball	4.00	50.40	7500	70	265.43	2.07
PFR1212DHE-SP00	120x120x38	8.0 - 13.2	12	Ball	3.70	24.00	5800	65	201.41	1.48
PFR1212UHE-SP00	120x120x38	8.0 - 13.2	12	Ball	2.70	54.00	7500	70.5	260.76	2.654
QFR1212GHEXUM	120x120x38	10.8 - 12.6	12	Ball	1.80	21.60	4000	59	181.27	0.751
PFB1212SE-00	120x120x38	10.8 - 12.6	12	Ball	4.50	21.60	4000	59	252.85	1.412
AFB1212HHE-TP02	120x120x38	10.8 - 13.2	12	Ball	0.40	32.40	4800	64	212.21	1.040
PFC1224DE-F00	120x120x38	14.0 - 26.5	24	Ball	2.00	32.40	4800	64	212.21	1.040
PFB1224LE-00P0	120x120x38	14.0 - 27.6	24	Ball	0.45	32.40	4800	64	212.21	1.040
PFB1224SE-00P5	120x120x38	14.0 - 27.6	24	Ball	2.10	14.88	4100	55.5	190.48	0.694
PFB1224LE-00P6	120x120x38	14.0 - 27.6	24	Ball	0.45	14.88	4100	55.5	190.48	0.694
PFB1224SE-00P6	120x120x38	14.0 - 27.6	24	Ball	2.07	6.24	2300	40	103.24	0.255
PFB1224SE-00P0	120x120x38	14.0 - 27.6	24	Ball	2.10	31.20	5200	62	240.96	1.082
PFB1224HE-00P0	120x120x38	14.0 - 27.6	24	Ball	1.00	20.40	4600	58.5	212.573	0.844
PFB1224HE-00P6	120x120x38	14.0 - 28.0	24	Ball	1.00	4.80	2900	44	120.07	0.354
QFR1224GHE-SP01	120x120x38	16.0 - 26.4	24	Ball	0.94	22.56	3500	47	130.80	0.452
PFB1224EHEP0	120x120x38	21.6 - 26.4	24	Ball	0.90	21.60	6000	64	210.38	1.170
PFB1224EHEP6	120x120x38	21.6 - 26.4	24	Ball	0.90	21.60	6000	64	210.38	1.170
PFB1224GHEP0	120x120x38	21.6 - 26.4	24	Ball	1.35	42.24	5300	66	243.66	1.311
PFB1224GHEP5	120x120x38	21.6 - 26.4	24	Ball	1.35	76.80	7000	72.5	306.92	2.175
PFB1224GHEP6	120x120x38	21.6 - 26.4	24	Ball	1.35	48.00	5500	66.5	252.85	1.412
AFB1224GHEYNU	120x120x38	21.6 - 26.4	24	Ball	1.30	24.00	6000	64	210.38	1.170
AFB1224EHE-EP	120x120x38	21.6 - 26.4	24	Ball	0.85	48.00	5500	66.5	252.85	1.412
QFR1224GHEYPR	120x120x38	21.6 - 26.4	24	Ball	0.91	99.36	7600	72	318.19	3.091
PFB1248UHE-EP	120x120x38	30.0 - 60.0	48	Ball	0.88	44.40	7400	68.5	254.34	1.438
PFB1248XHE-TP17	120x120x38	33.0 - 52.8	48	Ball	1.60	32.40	6600	65.5	228.65	1.206
QFR1248GHE-SP01	120x120x38	33.0 - 52.8	48	Ball	0.50	22.56	6000	64.00	210.38	1.170
AFB1248VHE-TP18	120x120x38	34.0 - 56.0	48	Ball	0.31	21.84	6000	64.50	195.68	1.028

Part Number	Dimension (mm)	Operating Voltage Range (VDC)	Voltage (VDC)	Bearing Type	Current (A)	Power (W)	Speed (RPM)	Noise (dB-A)	Air Flow (CFM)	Air Pressure (in H ₂ O)
AFB1248VHE-T9LN	120x120x38	34.0 - 56.0	48	Ball	0.31	45.6	7800	70	262.00	2.025
AFB1248SHEDC4	120x120x38	36.0 - 59.0	48	Ball	0.13	10.8	4000	57	140.87	0.766
THA1248BE	120x120x38	36.0 - 60.0	48	Ball	2.07	50.4	7500	70	265.43	2.070
THB1248CE	120x120x38	36.0 - 60.0	48	Ball	0.95	24.00	5800	65	201.41	1.480
KSB1212ME-03P1	Round-120x 38	10.8 - 13.2	12	Sleeve	0.19	2.28	1800	36.2	44.91	0.300
EUB1312HE-10P1	125x125x39	10.8 - 13.2	12	Sleeve	0.13	1.56	2200	32	79.86	0.184
EFB1324SHE-EP	127x127x38	18.0 - 28.0	24	Ball	0.75	18.00	4600	58.5	200.00	0.757
THD1348HE	134x134x38	36.0 - 60.0	48	Ball	5.00	240.00	12500	82	490.00	7.100
PFM1412DEB7V	139.7x139.7x38	10.8 - 12.8	12	Ball	3.90	46.80	6500	70	282.31	2.033
THB1448AE	139.7x139.7x38	36.0 - 60.0	48	Ball	1.10	52.80	6100	66.8	325.90	1.650
FFB1424VHG-EP	139.7x139.7x50.8	18.0 - 26.4	24	Ball	1.00	24.00	3200	58.5	252.11	0.644
THB1748BGP0	Round 170x50.80	36.0 - 60.0	48	Ball	3.40	163.20	8000	77.5	607.07	3.828
THB1748BGP6	Round 170x50.80	36.0 - 60.0	48	Ball	3.40	163.20	8000	77.5	607.07	3.828
AFB1512EHYVB	Rounded/Rect 172 x 150 x 25.40	10.0 - 13.2	12	Ball	3.00	31.20	5000	65	305.04	1.198
EFB1524HHGP0	Rounded/Rect 172 x 150 x 25.40	21.6 - 26.4	24	Ball	0.90	36.00	4300	61.5	290.64	0.821
THB1748BG	Rounded/Rect 172 x 150 x 25.40	36.0 - 56.0	48	Ball	3.50	21.60	3700	59	265.79	0.814
AFB1548VH-CD8G	Rounded/Rect 172 x 150 x 25.40	42.0 - 60.0	48	Ball	0.65	168.00	8000	75	607.07	4.136
EFB1524VHG-EP	Rounded/Rect 172 x 150 x 50.80	20.4 - 27.6	24	Ball	1.02	23.52	4000	60	302.29	0.937
EFB1524LGP0	Rounded/Rect 172 x 150 x 50.80	21.6 - 26.4	24	Ball	0.90	24.48	4000	60	302.29	0.937
EFB1524SHGP0	Rounded/Rect 172 x 150 x 50.80	21.6 - 26.4	24	Ball	1.55	59.04	5500	63.4	415.66	1.771
EFB1524SHGP5	Rounded/Rect 172 x 150 x 50.80	21.6 - 26.4	24	Ball	1.55	12.00	2800	52.3	195.80	0.496
EFB1524SHGP6	Rounded/Rect 172 x 150 x 50.80	21.6 - 26.4	24	Ball	1.55	37.20	4500	62	332.39	1.265
EFB1524HHGP6	Rounded/Rect 172 x 150 x 50.80	21.6 - 26.4	24	Ball	0.90	144.00	7500	77	527.37	3.776
EFB1524LGP6	Rounded/Rect 172 x 150 x 50.80	21.6 - 26.4	24	Ball	0.50	75.36	5800	70	410.51	2.085
THB1548DG-CXKQ	Rounded/Rect 172 x 150 x 50.80	24.0 - 72.0	48	Ball	1.57	37.20	4500	62	322.39	1.265
EFC1748DG-TYSG	Rounded/Rect 172 x 150 x 50.80	28.0 - 53.0	48	Ball	1.23	37.20	4500	62	322.39	1.265
EFB1548VHG-TP14	Rounded/Rect 172 x 150 x 50.80	36.0 - 60.0	48	Ball	0.49	21.60	3700	59	265.79	0.814
THB1548AG	Rounded/Rect 172 x 150 x 50.80	36.0 - 60.0	48	Ball	3.00	12.00	2800	52.3	195.80	0.496
TCA1748BT-00P8	Round 176.5 x 69	36.0 - 60.0	48	Ball	2.80	134.4	5400	78	540.00	3.799
THD2048HT	Round 200 x 70	36.0 - 75.0	48	Ball	8.00	384.00	7400	78	1026.80	4.945
KFB2348HHU-EP	Round 225 x 99	36.0 - 60.0	48	Ball	2.20	105.60	2600	71	735.08	1.990

PWM Blowers

Part Number	Dimension (mm)	Operating Voltage Range (VDC)	Voltage (VDC)	Bearing Type	Current (A)	Power (W)	Speed (RPM)	Noise (dB-A)	Air Flow (CFM)	Air Pressure (in H ₂ O)
BUB0712HD-SM	Rounded/Rect 73 x 75 x 20	10.8 - 12.6	12	Sleeve	0.26	3.12	3800	41.5	10.21	0.831
BFB0712HH-AWPH	Rounded/Rect 75.7 x 75.7 x 25	7.0 - 13.8	12	Ball	0.34	4.08	4400	51	15.33	0.977
BCB0812UHN-TP09	Rounded/Rect 75 x 80 x 30	10.8 - 12.6	12	Ball	2.30	27.60	10800	69.3	30.16	3.675
BFB0712HHD77	Rounded/Rect 75.7 x 80.6 x 25	9.0 - 16.0	12	Ball	0.53	8.15	5500	52	14.70	1.410
BUB0812HN-00	Rounded/Rect 80 x 80 x 28	10.8 - 13.2	12	Sleeve	0.50	6.00	4300	44.5	18.84	1.350
BFB1012UH-BA40ZYD	Rounded/Rect 96.6 x 94.3 x 24.90	12.0 - 16.8	14.2	Ball	2.15	30.53	7000	68	36.93	4.764
BFM1012UHFF8	Rounded/Rect 96.6 x 94.3 x 24.90	10.8 - 12.6	12	Ball	5.80	69.60	8700	70.5	66.03	6.806
BFB1012EF-0018H	Rounded/Rect 96.6 x 94.3 x 24.90	10.8 - 12.6	12	Ball	5.00	60.00	7500	69	56.08	6.903



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