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DC Fan With Minimum Noise

Introductions

- Every model undergoes rigorous aerodynamic analysis and semi-anechoic chamber test to achieve minimum noise under high airflow and air pressure condition
- High precision maintenance-free ball bearing system provides superb reliability。
- Frame and fan blade meet UL 94V-0 flammability rating
- Every model features locked rotor protection and polarity protection， and offers optional frequency generator or rotation detector function
- All DC fans are 100% balanced to guarantee low vibration and excellent durability
- Automatic muti-axes winding，suface-mount machine and highly automated assembly lines anable mass
- UL,CSA,VDE,approved

Part Number Definition

AFB	12	12	H	E	-	B	F	00
1	2	3	4	5		6	7	8

1.SERIES CODE:
AFB ,EFB,PFB,QFR,BFB
2.FRAME DIMENSION:
02 : 125*38*45mm
03 : 30mmSQUARE or180*38*45mm
032 : Φ32*9mm
035 : 35mm SQUARE
04 : 40mmSQUARE or42*45*19mm
045 : 45mm SQUARE
05 : 50mmSQUARE
06 : 60mm SQUARE
07 : 70mm SQUARE or 75*75*30mm
08 : 80mm SQUARE
09 : 92mm SQRARE or Φ95mm
10 : 97*94*33 or Φ100*46.8mm
12 : 120mm SQUARE or125*126*34mm or120*120*32mm
13 : 127mm SQUARE or Φ133*61.5mm
14 : 140mmSQUARE
15 : 172*150mm
16 : 159*165*40mm
17 : Φ172mm or Φ175*69.0mm

3.OPERATION VOLTAGE:

05	:DC 5V	24	:DC 24V
12	:DC 12V	48	:DC 48V

4.SPEED(RPM)

L	: LOW	EH	:EXTERNAL HIGH
M	:MEDIUM	GH	:GRAND HIGH SPEED
H	:HIGH	UH	:ULTRA HIGH SPEED
HH	:EXTRA HIGH	DH	:DRASTIC HIGH SPEED
VH	:VERY HIGH	XH	:EXTREME HIGH SPEED
SH	:SUPER HIGH		

5.FRAME THICKNESS

A	:10mm	G	:50.8mm or48mm
C	:13mm	S	:55mm
B	:15mm	T	:61.0mm-71.0mm
D	:20mm (BLANK)25.4mm	W	:72.0-85.0mm
N	:28mm	U	:86.0-105.0mm
F	:32mm		
E	:38mm		

6.FRAME TYPE:

(BLANK):FLANGE TYPE

B :RIB TYPE (10mm,13mm,15mm,20mmTHICKNESS)

M :METAL FRAME

7.SIGNAL OUTPUT:

F :FREQUENCY GENERATOR OUTPUT

R :ROTATION DETECTOR OUTPUT(FAILURE DETECTOR)

8. SIGNAL OUTPUT VOLTAGE

00 :VCC(OPEN COLLECTOR)

Telecom Fan Part Number Definition （For T*Series）

T	D	A	09	48	B	E
1	**2**	**3**	**4**	**5**	**6**	**7**

1. T:TE;ECP,APPLICATION
2. FRAME SERIES
   D:Diagonal Fan E:AXIAL BLOWERS F:Stator Blade Fan
   H:High Efiicency Stator fan
3. DESIGN CODE
   A/B/C…..
4. FRAME DIMENSION
5. OPERATION VOLTAGE :
6. SPEED (PWM)
   A<B<C
7. FRAME THICKNESS
   E:38mm G：50.8mm or48mm

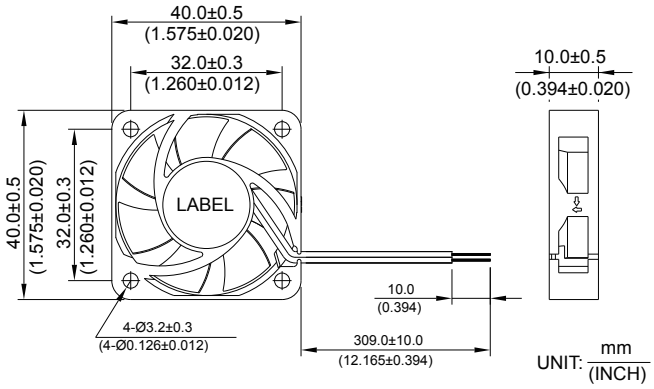
AFB 40 x 40 x 10 MM SERIES

New

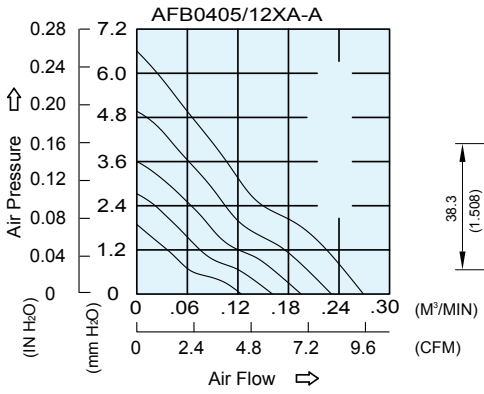


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #28 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 14.0g (0.49 oz)
* Rib Type Only

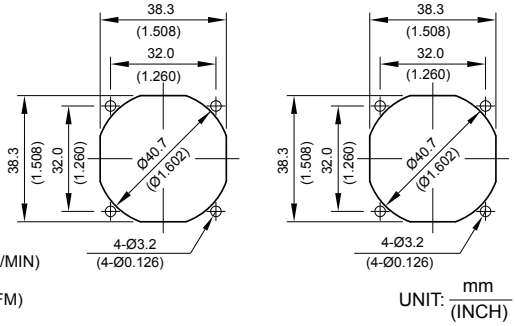
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0405LA	-A	-R00 / -F00	5	4.5 to 5.5	0.03	0.15	4000	0.124	4.39	1.73	0.068	16.0
AFB0412LA	-A	-R00 / -F00	12	9.0 to 13.8	0.02	0.24						
AFB0405MA	-A	-R00 / -F00	5	4.5 to 5.5	0.05	0.25	5000	0.161	5.67	2.65	0.104	21.5
AFB0412MA	-A	-R00 / -F00	12	7.0 to 13.8	0.03	0.36						
AFB0405HA	-A	-R00 / -F00	5	4.5 to 5.5	0.07	0.35	6000	0.195	6.90	3.60	0.140	27.0
AFB0412HA	-A	-R00 / -F00	12	7.0 to 13.8	0.04	0.48						
AFB0405HHA	-A	-R00 / -F00	5	4.5 to 5.5	0.09	0.45	7000	0.231	8.15	4.83	0.190	31.5
AFB0412HHA	-A	-R00 / -F00	12	7.0 to 13.8	0.05	0.60						
AFB0405VHA	-A	-R00 / -F00	5	4.5 to 5.5	0.11	0.55	8000	0.262	9.25	6.16	0.242	35.5
AFB0412VHA	-A	-R00 / -F00	12	7.0 to 13.8	0.06	0.72						

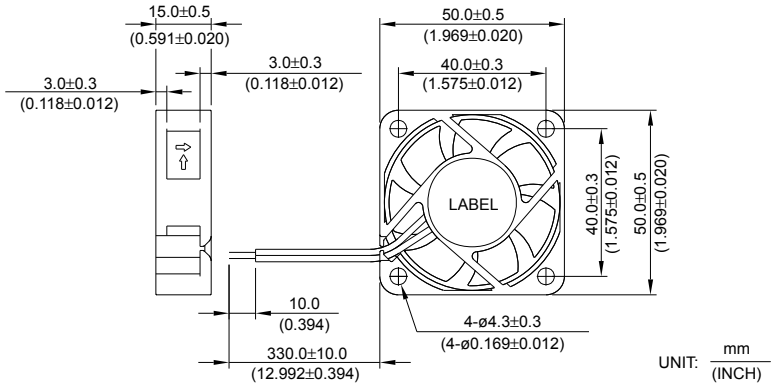
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 50 x 50 x 15 MM SERIES

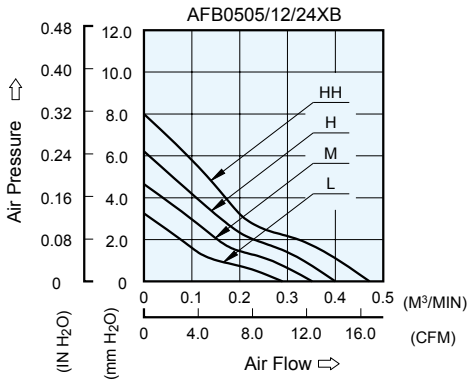


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 32g (1.13 oz)
* Rib Type Only

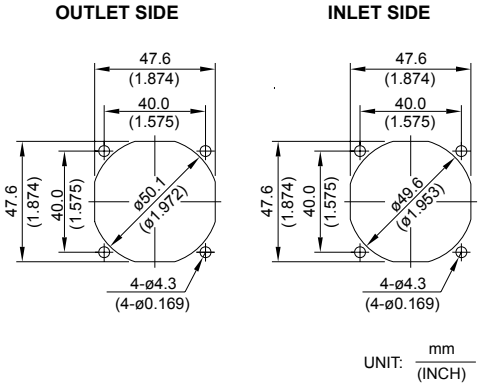
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0505LB	-R00 / -F00	5	4.5 to 5.5	0.15	0.75	4000	0.280	9.89	3.20	0.126	24.0
AFB0512LB	-R00 / -F00	12	7.0 to 13.8	0.06	0.72						
AFB0524LB	-R00 / -F00	24	14.0 to 27.6	0.05	1.20						
AFB0505MB	-R00 / -F00	5	4.5 to 5.5	0.22	1.10	4800	0.350	12.36	4.60	0.181	28.0
AFB0512MB	-R00 / -F00	12	7.0 to 13.8	0.08	0.96						
AFB0524MB	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0505HB	-R00 / -F00	5	4.5 to 5.5	0.32	1.60	5600	0.400	14.13	6.10	0.240	32.0
AFB0512HB	-R00 / -F00	12	7.0 to 13.8	0.10	1.20						
AFB0524HB	-R00 / -F00	24	14.0 to 27.6	0.07	1.68						
AFB0512HHB	-R00 / -F00	12	7.0 to 13.8	0.13	1.56	6400	0.460	16.24	8.00	0.315	36.0
AFB0524HHB	-R00 / -F00	24	14.0 to 27.6	0.08	1.92						

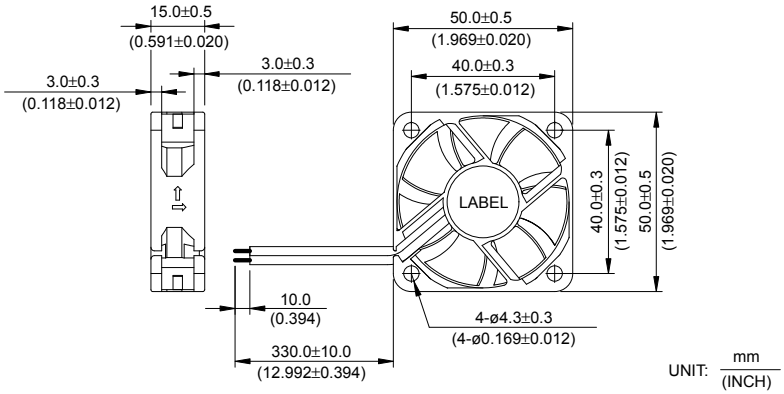
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Both of the ball bearing and the 1 ball + 1 sleeve type are available.

AFB 50 x 50 x 15 MM SERIES

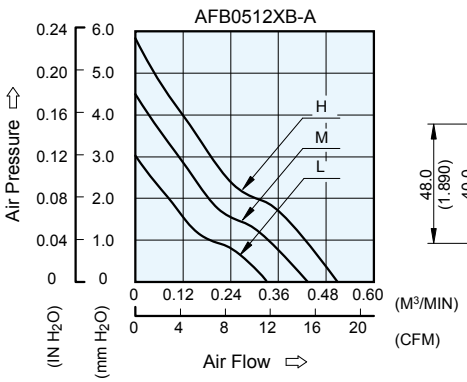


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 20g (0.71 oz)

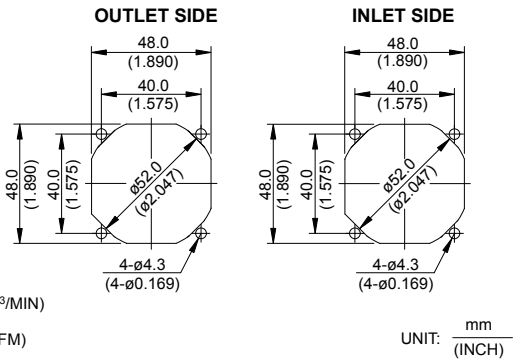
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0512LB	-A	-R00 / -F00	12	5.0 to 13.8	0.09	1.08	4300	0.330	11.67	3.03	0.119	24.0
AFB0512MB	-A	-R00 / -F00	12	5.0 to 13.8	0.10	1.20	5300	0.434	15.32	4.50	0.177	30.0
AFB0512HB	-A	-R00 / -F00	12	5.0 to 13.8	0.14	1.68	6300	0.509	17.97	5.84	0.230	34.0

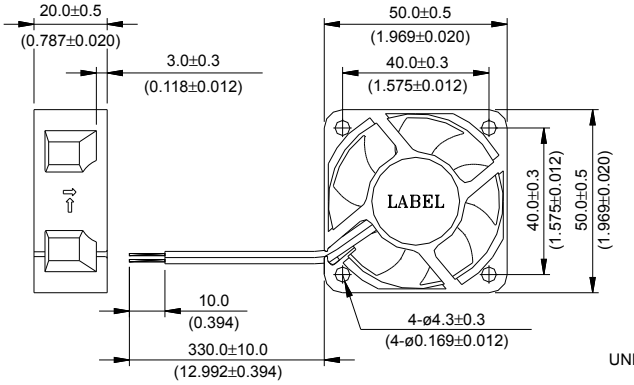
* Rib type only
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 50 x 50 x 20 MM SERIES

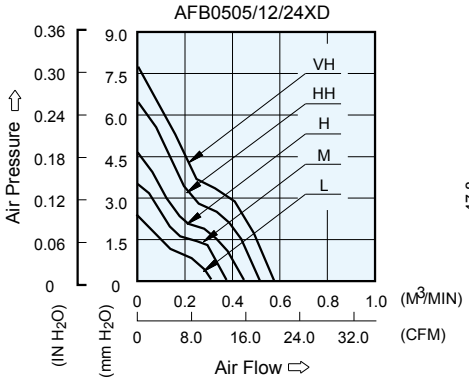


* Bearing Type
  Two Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 38g (1.34 oz)
* Rib Type Only

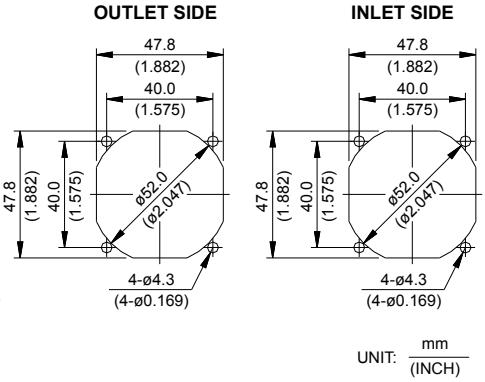
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0505LD	-R00 / -F00	5	4.5 to 5.5	0.14	0.70	4000	0.311	10.98	2.42	0.095	25.0
AFB0512LD	-R00 / -F00	12	7.0 to 13.8	0.06	0.72						
AFB0524LD	-R00 / -F00	24	14.0 to 27.6	0.05	1.20						
AFB0505MD	-R00 / -F00	5	4.5 to 5.5	0.20	1.00	4800	0.379	13.39	3.48	0.137	28.0
AFB0512MD	-R00 / -F00	12	7.0 to 13.8	0.07	0.84						
AFB0524MD	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0505HD	-R00 / -F00	5	4.5 to 5.5	0.33	1.65	5600	0.447	15.79	4.62	0.182	33.0
AFB0512HD	-R00 / -F00	12	7.0 to 13.8	0.10	1.20						
AFB0524HD	-R00 / -F00	24	14.0 to 27.6	0.07	1.68						
AFB0512HHD	-R00 / -F00	12	7.0 to 13.8	0.14	1.68	6400	0.518	18.30	6.44	0.254	37.0
AFB0524HHD	-R00 / -F00	24	14.0 to 27.6	0.09	2.16						
AFB0512VHD	-R00 / -F00	12	7.0 to 13.8	0.16	1.92	7000	0.575	20.30	7.70	0.303	40.5
AFB0524VHD	-R00 / -F00	24	14.0 to 27.6	0.10	2.40						

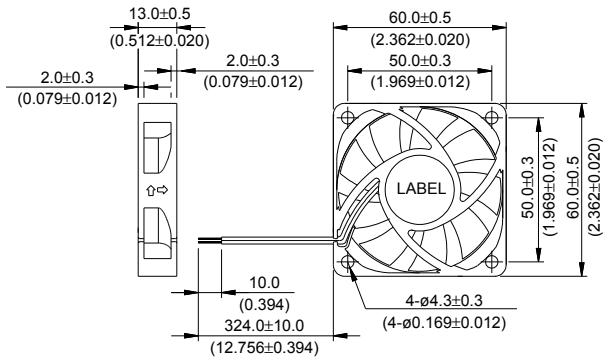
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 60 x 60 x 13 MM SERIES



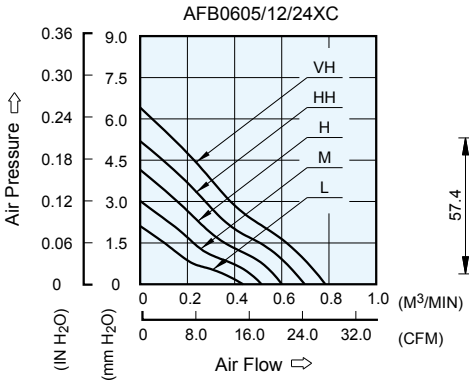
* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 2468 AWG #28 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 33.5g (1.18 oz)
* Rib Type Only

■ DIMENSIONS DRAWING

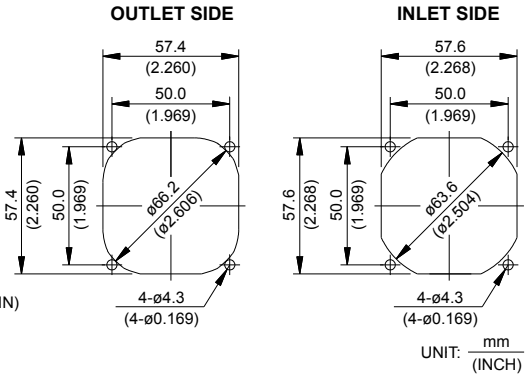


UNIT: mm / (INCH)

■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



UNIT: mm / (INCH)

MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0605LC	-R00 / -F00	5	4.5 to 5.5	0.12	0.60	3000	0.436	15.40	2.11	0.083	24.0
AFB0612LC	-R00 / -F00	12	7.0 to 13.8	0.08	0.96						
AFB0624LC	-R00 / -F00	24	14.0 to 27.6	0.05	1.20						
AFB0605MC	-R00 / -F00	5	4.5 to 5.5	0.18	0.90	3600	0.514	18.15	3.02	0.119	28.0
AFB0612MC	-R00 / -F00	12	7.0 to 13.8	0.11	1.32						
AFB0624MC	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0605HC	-R00 / -F00	5	4.5 to 5.5	0.29	1.45	4200	0.601	21.22	4.15	0.163	31.5
AFB0612HC	-R00 / -F00	12	7.0 to 13.8	0.14	1.68						
AFB0624HC	-R00 / -F00	24	14.0 to 27.6	0.07	1.68						
AFB0612HHC	-R00 / -F00	12	7.0 to 13.8	0.20	2.40	4800	0.698	24.65	5.19	0.204	35.0
AFB0624HHC	-R00 / -F00	24	14.0 to 27.6	0.09	2.16						
AFB0612VHC	-R00 / -F00	12	7.0 to 13.8	0.24	2.88	5400	0.785	27.72	6.41	0.252	38.0
AFB0624VHC	-R00 / -F00	24	14.0 to 27.6	0.12	2.88						

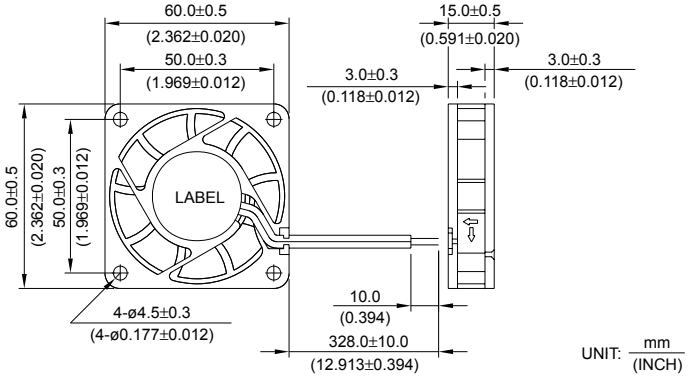
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.
* Both of the ball bearing and the 1 ball + 1 Sleeve type are available.

AFB 60 x 60 x 15 MM SERIES

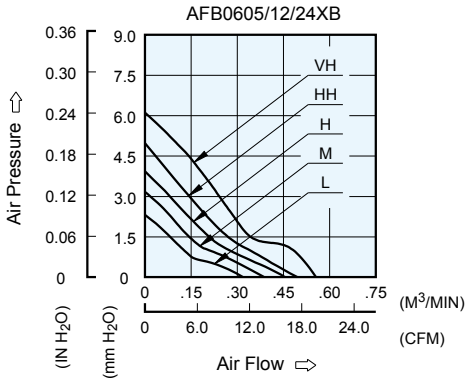


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 44g (1.55 oz)
* Rib Type Only

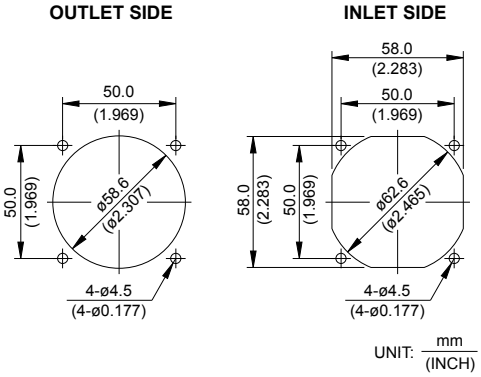
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0605LB	/ -F00	5	4.0 to 6.0	0.13	0.65	3000	0.327	11.55	2.21	0.087	24.0
AFB0612LB	-R00 / -F00	12	7.0 to 13.8	0.07	0.84						
AFB0624LB	-R00 / -F00	24	14.0 to 27.6	0.04	0.96						
AFB0605MB	/ -F00	5	4.0 to 6.0	0.20	1.00	3500	0.381	13.45	3.01	0.119	29.0
AFB0612MB	-R00 / -F00	12	7.0 to 13.8	0.08	0.96						
AFB0624MB	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0605HB	/ -F00	5	4.0 to 6.0	0.30	1.50	4000	0.435	15.36	3.93	0.155	32.0
AFB0612HB	-R00 / -F00	12	7.0 to 13.8	0.10	1.20						
AFB0624HB	-R00 / -F00	24	14.0 to 27.6	0.08	1.92						
AFB0605HHB	/ -F00	5	4.0 to 6.0	0.40	2.00	4500	0.490	17.30	4.97	0.195	35.0
AFB0612HHB	-R00 / -F00	12	7.0 to 13.8	0.12	1.44						
AFB0624HHB	-R00 / -F00	24	14.0 to 27.6	0.10	2.40						
AFB0612VHB	-R00 / -F00	12	7.0 to 13.8	0.16	1.92	5000	0.550	19.42	6.10	0.240	37.0
AFB0624VHB	-R00 / -F00	24	14.0 to 27.6	0.11	2.64						

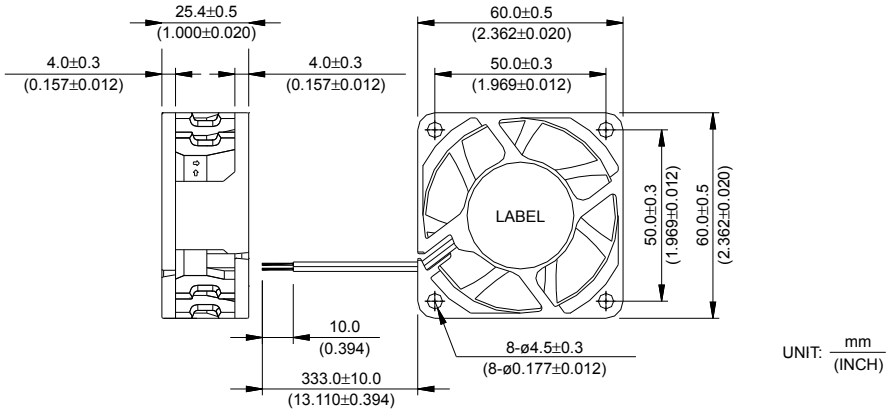
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.
* Both of the ball bearing and the 1 ball + 1 Sleeve type are available.

AFB 60 x 60 x 25.4 MM SERIES

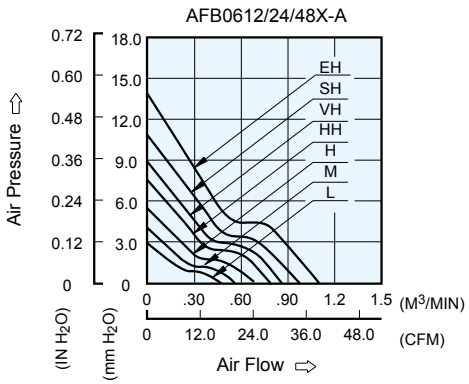


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 80g (2.82 oz)

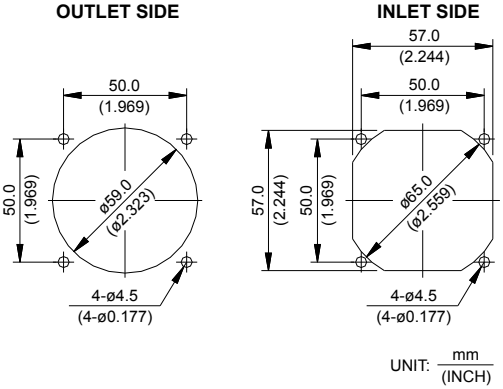
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0612L	-A	R00 / F00	12	4.0 to 13.8	0.08	0.96	3100	0.476	16.81	2.86	0.113	26.5
AFB0624L	-A	R00 / F00	24	14.0 to 27.6	0.06	1.44						
AFB0612M	-A	R00 / F00	12	4.0 to 13.8	0.13	1.56	3600	0.560	19.78	3.93	0.155	31.0
AFB0624M	-A	R00 / F00	24	14.0 to 27.6	0.07	1.68						
AFB0612H	-A	R00 / F00	12	4.0 to 13.8	0.14	1.68	4250	0.662	23.38	5.35	0.211	34.0
AFB0624H	-A	R00 / F00	24	14.0 to 27.6	0.09	2.16						
AFB0612HH	-A	R00 / F00	12	4.0 to 13.8	0.17	2.04	5000	0.780	27.55	7.47	0.294	40.0
AFB0624HH	-A	R00 / F00	24	14.0 to 27.6	0.11	2.64						
AFB0648HH	-A	R00 / F00	48	20.0 to 56.0	0.08	3.84						
AFB0612VH	-A	R00 / F00	12	4.0 to 13.8	0.23	2.76	5500	0.863	30.48	8.76	0.345	42.5
AFB0624VH	-A	R00 / F00	24	14.0 to 27.6	0.14	3.36						
AFB0648VH	-A	R00 / F00	48	20.0 to 56.0	0.09	4.32						
AFB0612SH	-A	R00 / F00	12	4.0 to 13.8	0.27	3.24	6000	0.967	34.15	10.73	0.422	44.5
AFB0624SH	-A	R00 / F00	24	14.0 to 27.6	0.17	4.08						
AFB0648SH	-A	R00 / F00	48	20.0 to 56.0	0.11	5.28						
AFB0612EH	-A	R00 / F00	12	4.0 to 13.8	0.38	4.56	6800	1.086	38.35	13.81	0.544	46.5
AFB0624EH	-A	R00 / F00	24	14.0 to 27.6	0.24	5.76						
AFB0648EH	-A	R00 / F00	48	20.0 to 56.0	0.14	6.72						

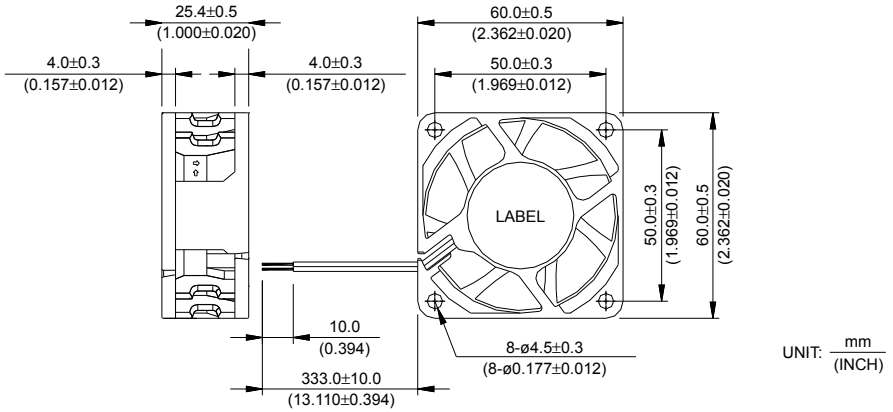
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 60 x 60 x 25.4 MM SERIES

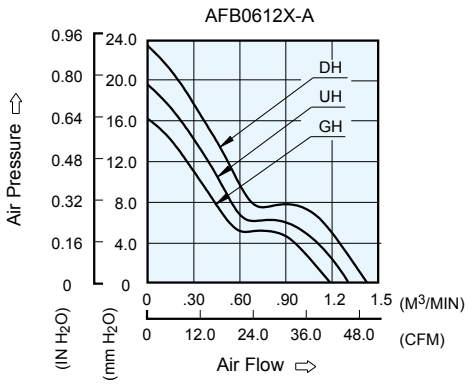


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 77g (2.72 oz)

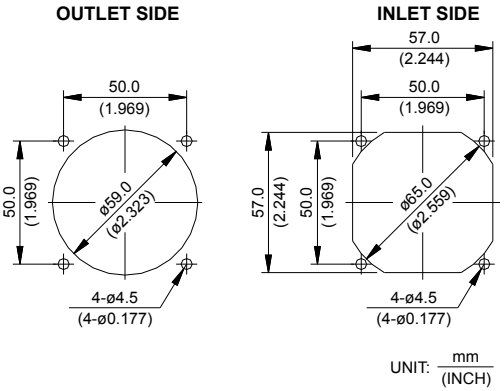
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0612GH	-A	-R00 / -F00	12	7.0 to 13.2	0.55	6.60	7500	1.188	41.95	16.27	0.640	50.5
AFB0612UH	-A	-R00 / -F00	12	7.0 to 13.2	0.69	8.28	8200	1.307	46.16	19.66	0.774	52.5
AFB0612DH	-A	-R00 / -F00	12	7.0 to 13.2	0.84	10.08	9000	1.427	50.40	23.52	0.926	55.0

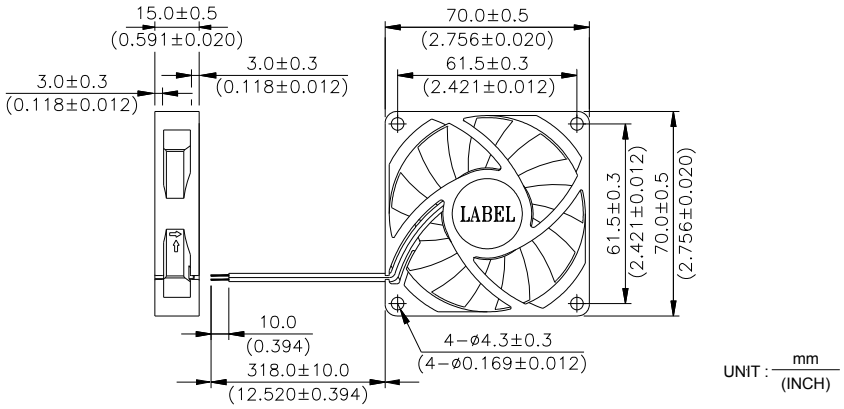
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 70 x 70 x 15 MM SERIES

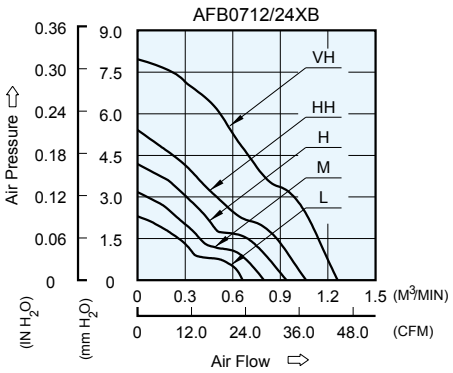


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 47g (1.66 oz)
* Rib Type Only

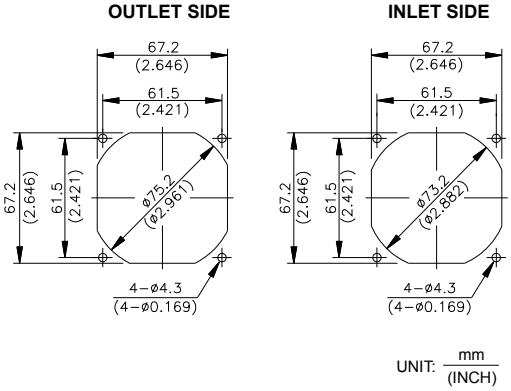
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



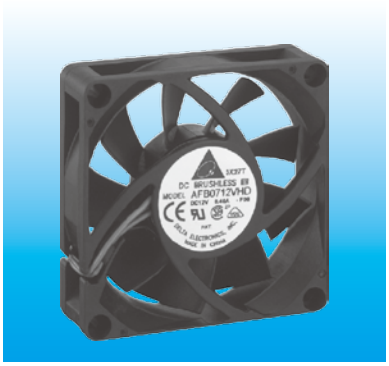
■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDCz	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0712LB	-R00 / -F00	12	4.0 to 13.8	0.08	0.96	2800	0.662	23.38	2.27	0.089	26.5
AFB0724LB	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0712MB	-R00 / -F00	12	4.0 to 13.8	0.14	1.68	3300	0.798	28.18	3.12	0.123	31.0
AFB0724MB	-R00 / -F00	24	14.0 to 27.6	0.09	2.16						
AFB0712HB	-R00 / -F00	12	4.0 to 13.8	0.18	2.16	3800	0.940	33.20	4.12	0.162	34.5
AFB0724HB	-R00 / -F00	24	14.0 to 27.6	0.12	2.88						
AFB0712HHB	-R00 / -F00	12	4.0 to 13.8	0.26	3.12	4300	1.063	37.54	5.33	0.210	38.5
AFB0724HHB	-R00 / -F00	24	14.0 to 27.6	0.15	3.60						
AFB0712VHB	-R00 / -F00	12	5.0 to 12.6	0.37	4.44	5200	1.287	45.45	7.79	0.306	44.0

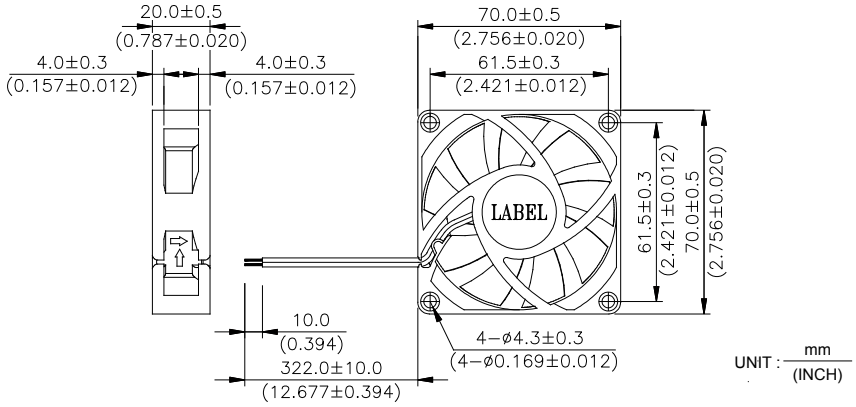
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.
* Both of the ball bearing and the 1 ball + 1 Sleeve type are available.

AFB 70 x 70 x 20 MM SERIES

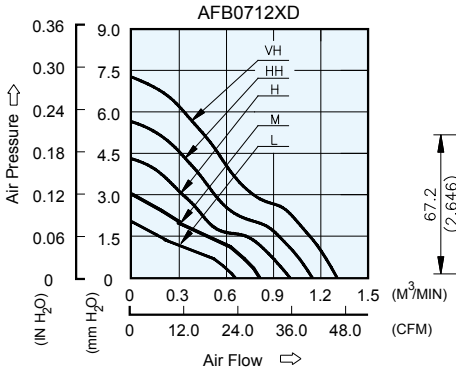


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 68g (2.40 oz)
* Rib Type Only

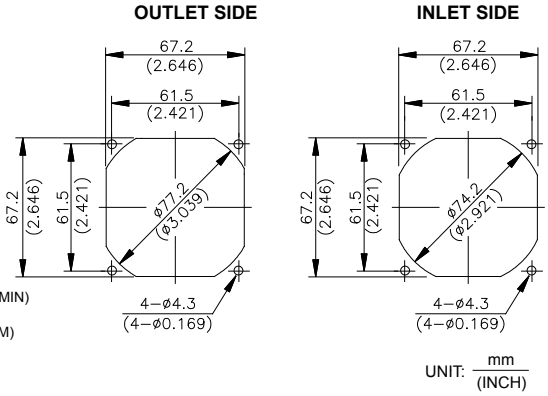
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDCz	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0712LD	-R00 / -F00	12	5.0 to 13.8	0.06	0.72	2600	0.682	24.08	2.01	0.079	27.0
AFB0712MD	-R00 / -F00	12	5.0 to 13.8	0.11	1.32	3200	0.826	29.16	2.99	0.117	32.0
AFB0712HD	-R00 / -F00	12	5.0 to 13.8	0.18	2.16	3800	1.003	35.42	4.30	0.169	36.5
AFB0712HHD	-R00 / -F00	12	5.0 to 13.8	0.25	3.00	4400	1.145	40.43	5.64	0.222	40.5
AFB0712VHD	-R00 / -F00	12	5.0 to 13.2	0.35	4.20	5000	1.327	46.86	7.24	0.285	44.3

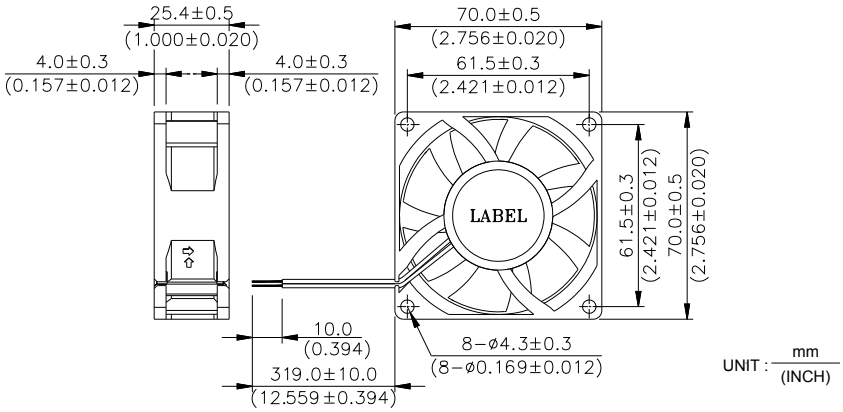
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.
* Both of the ball bearing and the 1 ball + 1 Sleeve type are available.

AFB 70 x 70 x 25.4 MM SERIES

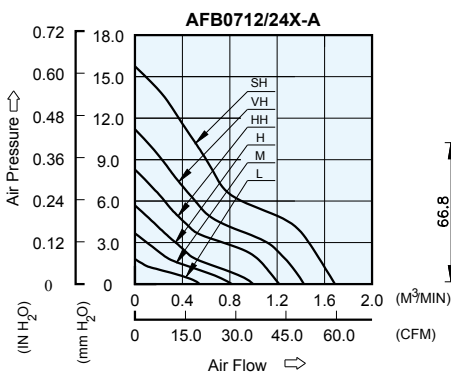


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 90g (3.17 oz)

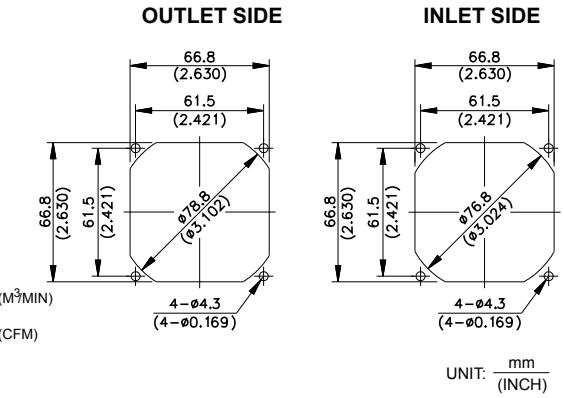
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0712L	-A	-R00 / -F00	12	5.0 to 13.8	0.07	0.84	2300	0.599	21.16	1.99	0.078	23.0
AFB0724L	-A	-R00 / -F00	24	14.0 to 26.4	0.06	1.44						
AFB0712M	-A	-R00 / -F00	12	5.0 to 13.8	0.11	1.32	3100	0.817	28.85	3.55	0.140	31.5
AFB0724M	-A	-R00 / -F00	24	14.0 to 26.4	0.09	2.16						
AFB0712H	-A	-R00 / -F00	12	5.0 to 13.8	0.17	2.04	3900	1.028	36.30	5.52	0.217	37.5
AFB0724H	-A	-R00 / -F00	24	14.0 to 26.4	0.13	3.12						
AFB0712HH	-A	-R00 / -F00	12	5.0 to 13.8	0.31	3.72	4700	1.246	44.01	7.89	0.311	44.0
AFB0724HH	-A	-R00 / -F00	24	14.0 to 26.4	0.18	4.32						
AFB0712VH	-A	-R00 / -F00	12	5.0 to 12.6	0.44	5.28	5500	1.472	51.97	10.99	0.433	47.5
AFB0724VH	-A	-R00 / -F00	24	14.0 to 26.4	0.27	6.48						
AFB0712SH	-AB	-R00 / -F00	12	5.0 to 13.8	0.65	7.80	6300	1.729	61.05	15.90	0.625	50.5

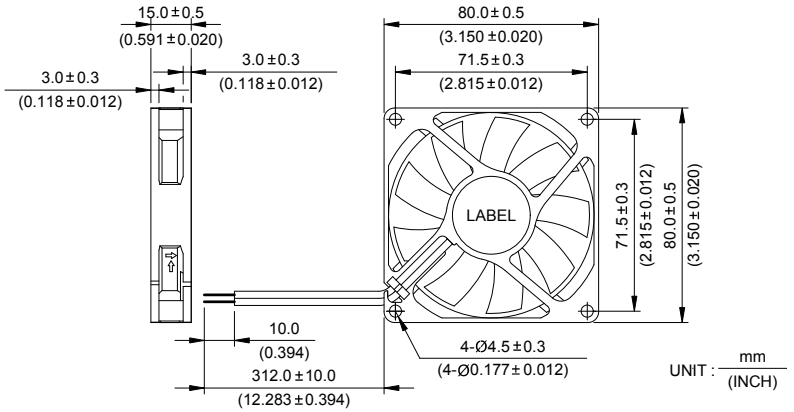
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.
* "SH" for rib type only Weight: 104g(3.66OZ).
* Both of the ball bearing and the 1 ball + 1 Sleeve type are available.

AFB 80 x 80 x 15 MM SERIES

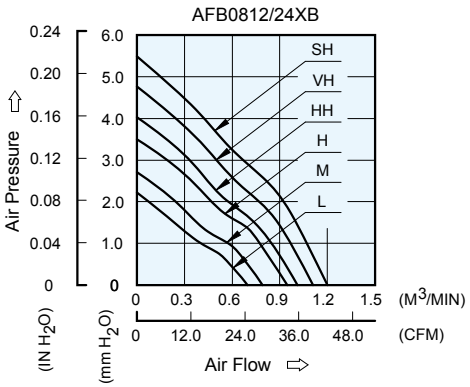


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 58g (2.05 oz)
* Rib Type Only

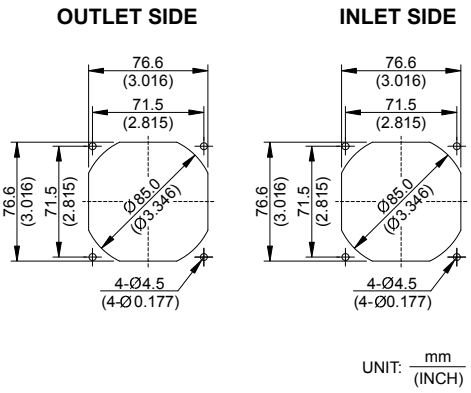
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0812LB	-R00 / -F00	12	7.0 to 13.8	0.09	1.08	2400	0.700	24.72	2.20	0.087	27.5
AFB0824LB	-R00 / -F00	24	14.0 to 27.6	0.05	1.20						
AFB0812MB	-R00 / -F00	12	7.0 to 13.8	0.11	1.32	2700	0.800	28.25	2.71	0.107	30.5
AFB0824MB	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0812HB	-R00 / -F00	12	7.0 to 13.8	0.14	1.68	3100	0.950	33.55	3.50	0.138	34.0
AFB0824HB	-R00 / -F00	24	14.0 to 27.6	0.08	1.92						
AFB0812HHB	-R00 / -F00	12	7.0 to 13.8	0.16	1.92	3400	1.010	35.67	4.03	0.159	37.0
AFB0824HHB	-R00 / -F00	24	14.0 to 27.6	0.10	2.40						
AFB0812VHB	-R00 / -F00	12	7.0 to 13.8	0.19	2.28	3700	1.110	39.20	4.77	0.188	39.5
AFB0824VHB	-R00 / -F00	24	14.0 to 27.6	0.12	2.88						
AFB0812SHB	-R00 / -F00	12	7.0 to 13.8	0.27	3.24	4000	1.210	42.73	5.49	0.216	42.5
AFB0824SHB	-R00 / -F00	24	14.0 to 26.0	0.17	4.08						

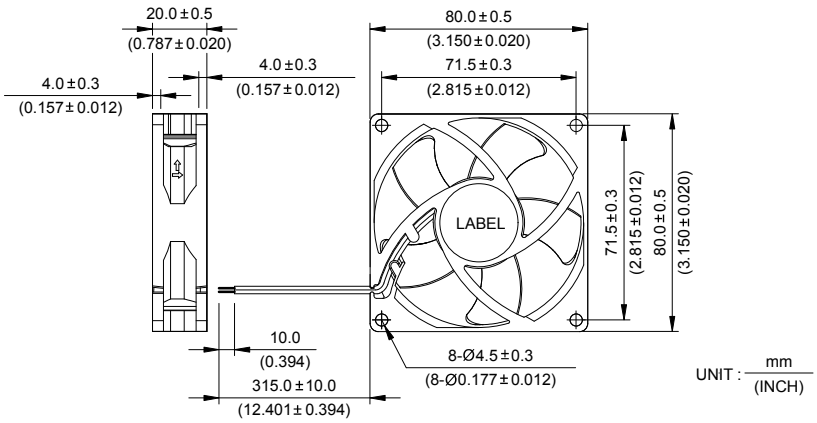
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 80 x 80 x 20 MM SERIES

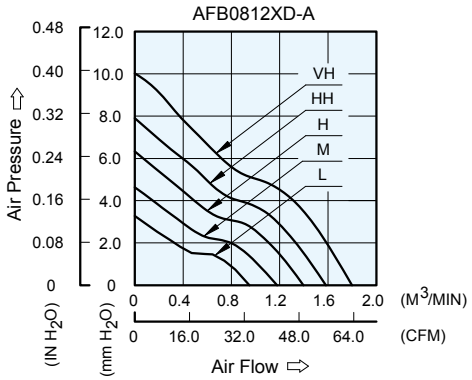


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 73g (2.57 oz)

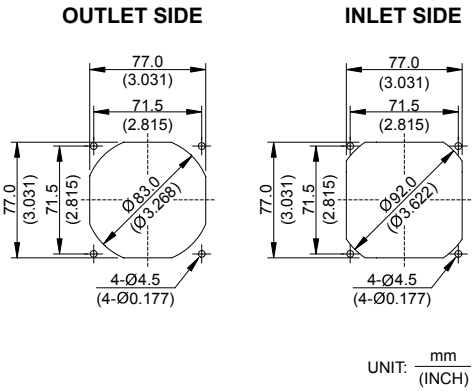
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0812LD	-A	-R00 / -F00	12	5.0 to 13.8	0.12	1.44	3000	0.949	33.52	3.27	0.129	30.5
AFB0812MD	-A	-R00 / -F00	12	5.0 to 13.8	0.16	1.92	3600	1.180	41.68	4.63	0.182	36.0
AFB0812HD	-A	-R00 / -F00	12	5.0 to 13.8	0.22	2.64	4200	1.397	49.34	6.33	0.249	40.0
AFB0812HHD	-A	-R00 / -F00	12	5.0 to 13.8	0.32	3.84	4800	1.582	55.87	7.90	0.311	44.0
AFB0812VHD	-A	-R00 / -F00	12	5.0 to 12.6	0.42	5.04	5400	1.799	63.54	10.02	0.394	47.5

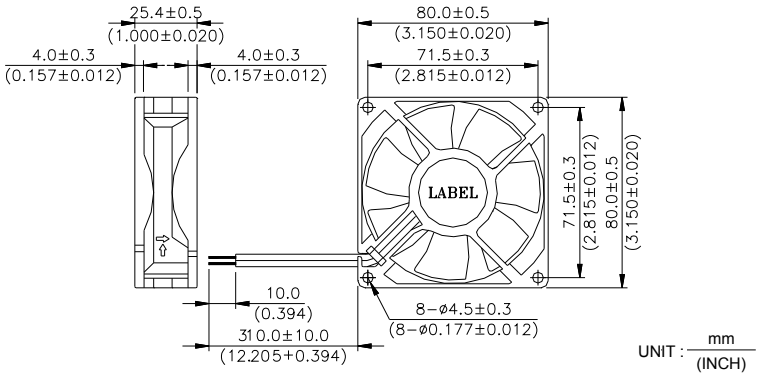
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.
* Both of the ball bearing and the 1 ball + 1 Sleeve type are available.

AFB 80 x 80 x 25.4 MM SERIES

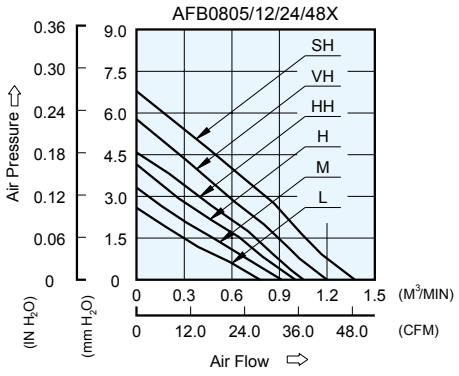


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 80g (2.82 oz)

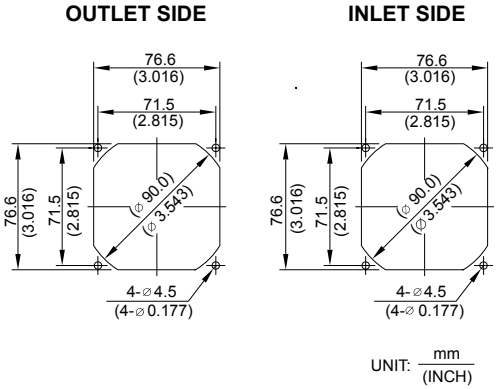
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0805L	/ -F00	5	4.5 to 5.5	0.24	1.20	2400	0.790	27.90	2.59	0.102	25.0
AFB0812L	-R00 / -F00	12	7.0 to 13.8	0.09	1.08						
AFB0824L	-R00 / -F00	24	14.0 to 27.6	0.05	1.20						
AFB0848L	-R00 / -F00	48	28.0 to 56.0	0.05	2.40						
AFB0805M	/ -F00	5	4.5 to 5.5	0.33	1.65	2700	0.890	31.43	3.28	0.129	28.0
AFB0812M	-R00 / -F00	12	7.0 to 13.8	0.12	1.44						
AFB0824M	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0848M	-R00 / -F00	48	28.0 to 56.0	0.06	2.88						
AFB0805H	/ -F00	5	4.5 to 5.5	0.43	2.15	3000	1.000	35.31	4.04	0.159	31.0
AFB0812H	-R00 / -F00	12	7.0 to 13.8	0.16	1.92						
AFB0824H	-R00 / -F00	24	14.0 to 27.6	0.07	1.68						
AFB0848H	-R00 / -F00	48	28.0 to 56.0	0.07	3.36						
AFB0812HH	-R00 / -F00	12	7.0 to 13.8	0.20	2.40	3250	1.060	37.43	4.59	0.181	34.0
AFB0824HH	-R00 / -F00	24	14.0 to 27.6	0.09	2.16						
AFB0848HH	-R00 / -F00	48	28.0 to 56.0	0.08	3.84						
AFB0812VH	-R00 / -F00	12	7.0 to 13.8	0.26	3.12	3600	1.190	42.02	5.51	0.217	38.0
AFB0824VH	-R00 / -F00	24	14.0 to 27.6	0.14	3.36						
AFB0812SH	-R00 / -F00	12	7.0 to 13.8	0.34	4.08	4000	1.320	46.62	6.78	0.267	40.0
AFB0824SH	-R00 / -F00	24	14.0 to 26.0	0.16	3.84						

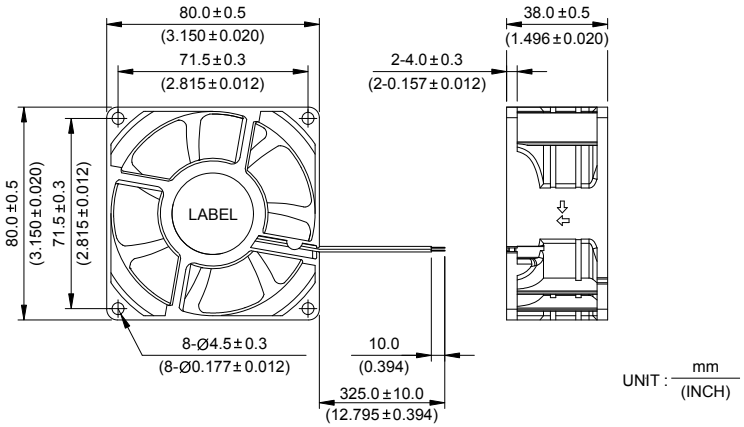
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 80 x 80 x 38 MM SERIES

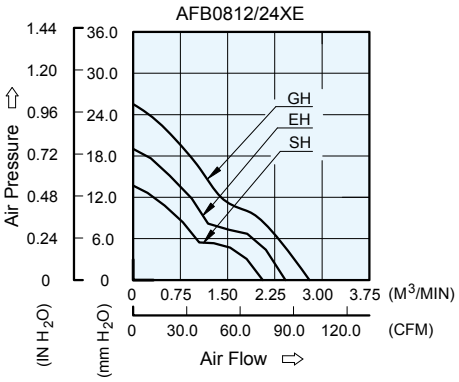


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 156g (5.50 oz)

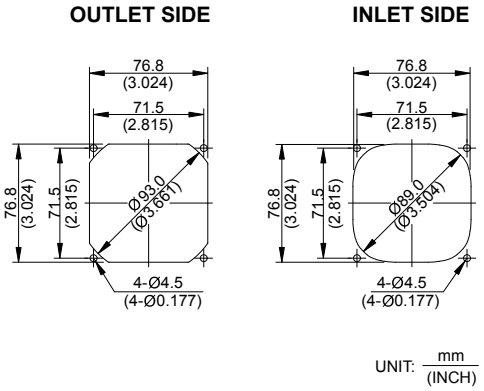
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0812SHE	-R00 / -F00	12	6.0 to 13.8	0.68	8.16	5000	2.060	72.76	13.89	0.547	46.0
AFB0824SHE	-R00 / -F00	24	14.0 to 26.4	0.35	8.40						
AFB0812EHE	-R00 / -F00	12	6.0 to 13.8	1.00	12.00	5900	2.423	85.55	19.02	0.749	50.5
AFB0824EHE	-R00 / -F00	24	14.0 to 26.4	0.50	12.00						
AFB0812GHE	-R00 / -F00	12	6.0 to 13.8	1.40	16.80	6800	2.804	99.01	25.54	1.006	54.0
AFB0824GHE	-R00 / -F00	24	14.0 to 26.4	0.65	15.60						

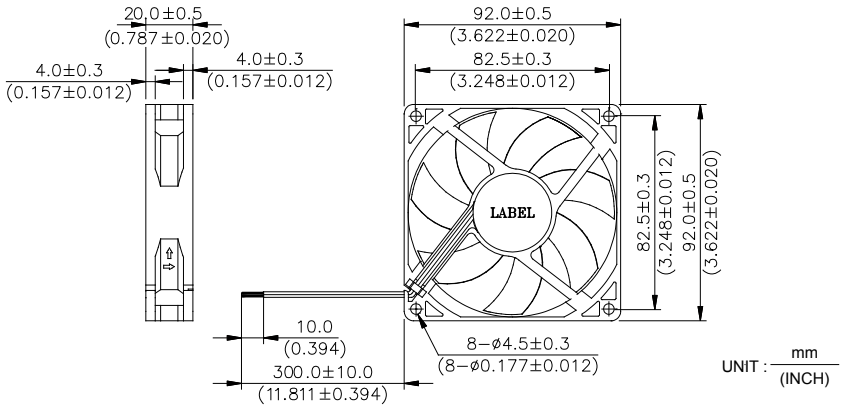
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 92 x 92 x 20 MM SERIES

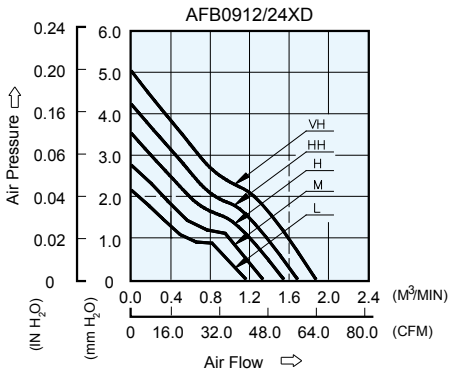


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 92g (3.24 oz)

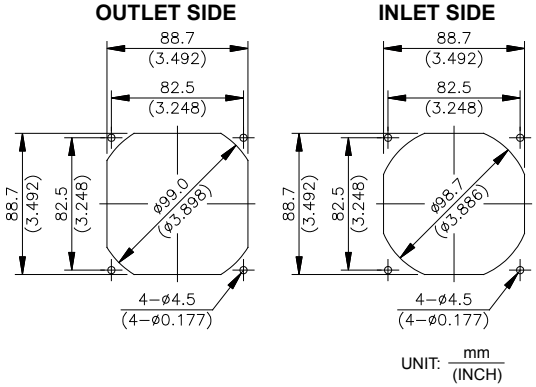
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB0912LD	-R00 / -F00	12	7.0 to 13.8	0.08	0.96	2100	1.161	41.00	2.13	0.084	28.5
AFB0924LD	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0912MD	-R00 / -F00	12	7.0 to 13.8	0.10	1.20	2400	1.335	47.14	2.74	0.108	32.0
AFB0924MD	-R00 / -F00	24	14.0 to 27.6	0.08	1.92						
AFB0912HD	-R00 / -F00	12	7.0 to 13.8	0.16	1.92	2700	1.546	54.60	3.51	0.138	35.0
AFB0924HD	-R00 / -F00	24	14.0 to 27.6	0.10	2.40						
AFB0912HHD	-R00 / -F00	12	7.0 to 13.8	0.24	2.88	3000	1.686	59.54	4.22	0.166	38.0
AFB0924HHD	-R00 / -F00	24	14.0 to 27.6	0.13	3.12						
AFB0912VHD	-R00 / -F00	12	7.0 to 13.8	0.28	3.36	3300	1.872	66.11	5.03	0.198	40.5
AFB0924VHD	-R00 / -F00	24	14.0 to 27.6	0.16	3.84						

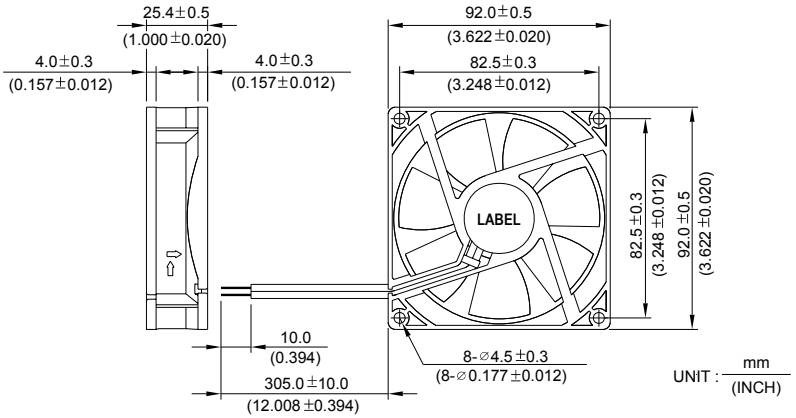
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 92 x 92 x 25.4 MM SERIES

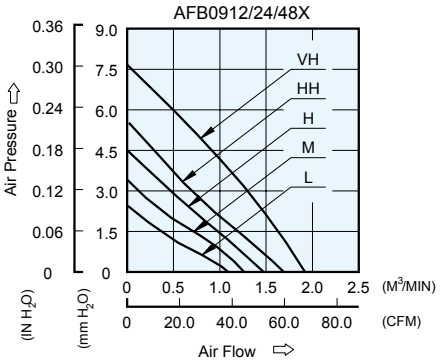


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 99g (3.49 oz)

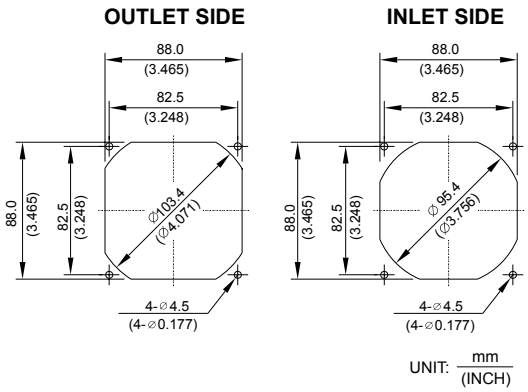
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m³ /min	CFM	mmH₂O	IN H₂O	dB-A
AFB0912L	-R00 / -F00	12	7.0 to 13.8	0.07	0.84	2100	1.050	37.08	2.53	0.100	25.0
AFB0924L	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
AFB0948L	-R00 / -F00	48	28.0 to 56.0	0.05	2.40						
AFB0912M	-R00 / -F00	12	7.0 to 13.8	0.11	1.32	2450	1.240	43.79	3.25	0.130	30.0
AFB0924M	-R00 / -F00	24	14.0 to 27.6	0.08	1.92						
AFB0948M	-R00 / -F00	48	28.0 to 56.0	0.05	2.40						
AFB0912H	-R00 / -F00	12	7.0 to 13.8	0.16	1.92	2850	1.450	51.21	4.50	0.177	34.0
AFB0924H	-R00 / -F00	24	14.0 to 27.6	0.10	2.40						
AFB0948H	-R00 / -F00	48	28.0 to 56.0	0.06	2.88						
AFB0912HH	-R00 / -F00	12	7.0 to 13.8	0.25	3.00	3200	1.640	57.92	5.62	0.221	38.0
AFB0924HH	-R00 / -F00	24	14.0 to 27.6	0.13	3.12						
AFB0948HH	-R00 / -F00	48	28.0 to 56.0	0.08	3.84						
AFB0912VH	-R00 / -F00	12	7.0 to 13.8	0.40	4.80	3800	1.920	67.80	7.67	0.302	45.0
AFB0924VH	-R00 / -F00	24	14.0 to 27.6	0.22	5.28						

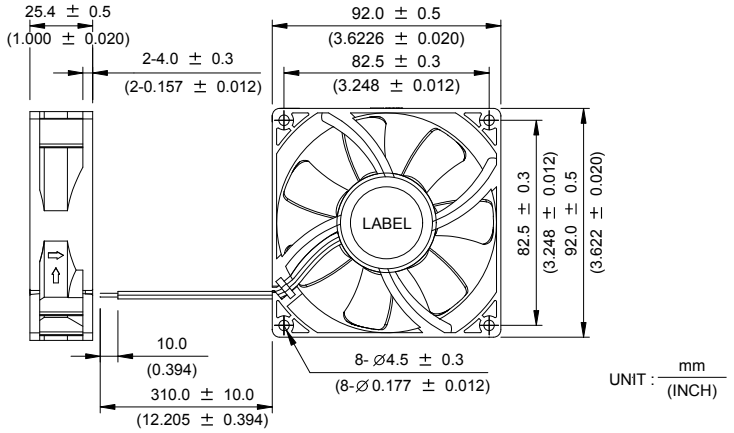
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 92 x 92 x 25.4 MM SERIES

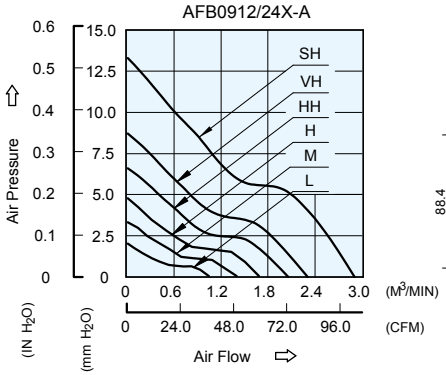


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 120g (4.23 oz)

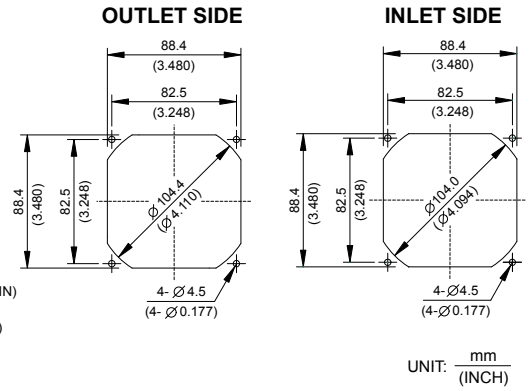
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0912L	-A	-R00/-F00	12	5.0 to 13.8	0.10	1.20	1800	1.055	37.25	2.05	0.080	25.0
AFB0924L	-A	-R00/-F00	24	14.0 to 26.4	0.08	1.92						
AFB0912M	-A	-R00/-F00	12	5.0 to 13.8	0.12	1.44	2300	1.402	49.51	3.38	0.133	31.5
AFB0924M	-A	-R00/-F00	24	14.0 to 26.4	0.10	2.40						
AFB0912H	-A	-R00/-F00	12	5.0 to 13.8	0.21	2.52	2800	1.696	59.89	4.86	0.191	37.0
AFB0924H	-A	-R00/-F00	24	14.0 to 26.4	0.12	2.88						
AFB0912HH	-A	-R00/-F00	12	5.0 to 13.8	0.32	3.84	3300	2.060	72.74	6.65	0.262	42.5
AFB0924HH	-A	-R00/-F00	24	14.0 to 26.4	0.18	4.32						
AFB0912VH	-A	-R00/-F00	12	5.0 to 12.6	0.40	4.80	3800	2.307	81.47	8.76	0.345	46.0
AFB0924VH	-A	-R00/-F00	24	14.0 to 26.4	0.25	6.00						
AFB0912SH	-A	-R00/-F00	12	5.0 to 12.6	0.75	9.00	4800	2.905	102.59	13.35	0.526	53.0
AFB0924SH	-A	-R00/-F00	24	14.0 to 26.4	0.40	9.60						

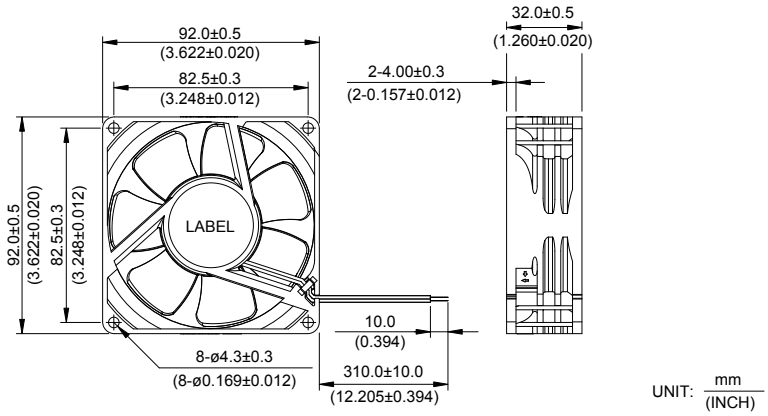
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 92 x 92 x 32 MM SERIES

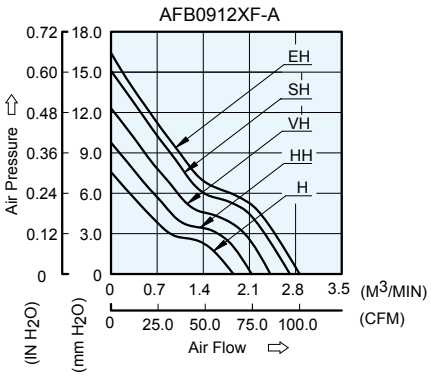


* Bearing Type
  Ball Bearings
* Material
  Impeller & Pillow : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 180g (6.35 oz)

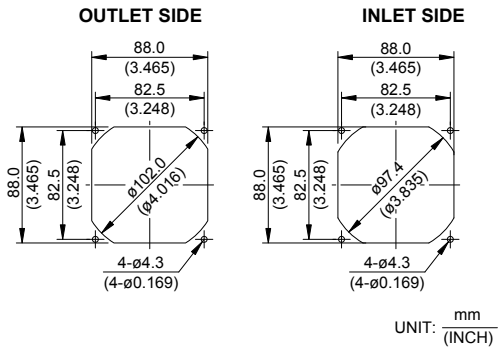
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0912HF	-A	-R00/-F00	12	7.0 to 13.2	0.21	2.52	3300	1.857	65.60	7.58	0.298	38.0
AFB0912HHF	-A	-R00/-F00	12	7.0 to 13.2	0.28	3.36	3800	2.133	75.31	9.76	0.384	43.0
AFB0912VHF	-A	-R00/-F00	12	7.0 to 13.2	0.42	5.04	4300	2.417	85.34	12.31	0.485	47.0
AFB0912SHF	-A	-R00/-F00	12	7.0 to 13.2	0.60	7.20	4800	2.714	95.83	15.10	0.594	49.0
AFB0912EHF	-A	-R00/-F00	12	7.0 to 13.2	0.66	7.92	5000	2.861	101.04	16.43	0.647	50.0

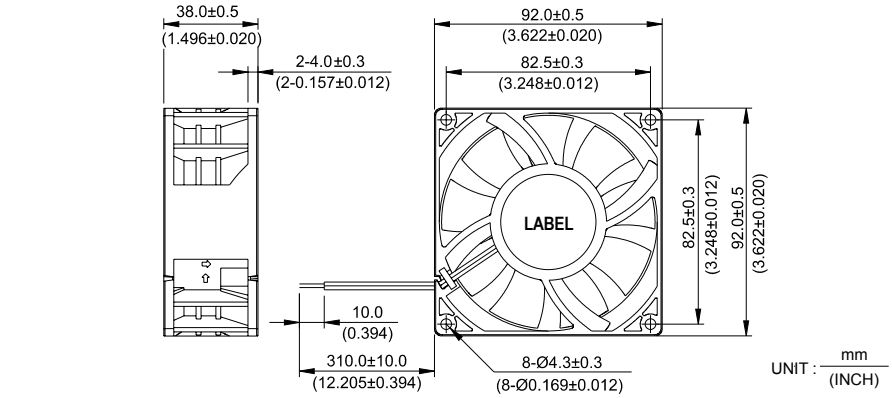
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 92 x 92 x 38 MM SERIES

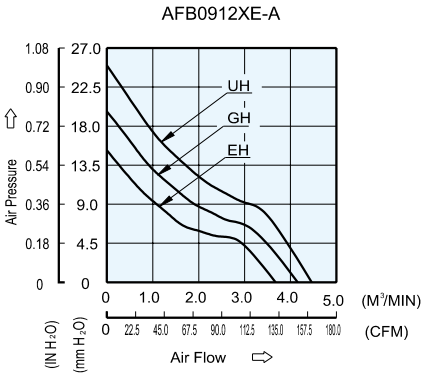


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 245g (8.64 oz)

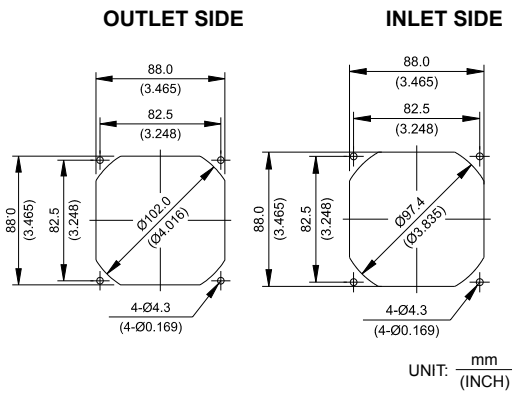
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB0912EHE	-A	-R00 / -F00	12	7.0 to 13.8	1.40	16.80	4800	3.605	127.31	16.13	0.635	56.0
AFB0912GHE	-A	-R00 / -F00	12	7.0 to 13.8	1.85	22.20	5400	4.074	143.87	20.37	0.802	60.0
AFB0912UHE	-A	-R00 / -F00	12	7.0 to 13.2	2.50	30.00	6000	4.537	160.22	25.45	1.002	63.0

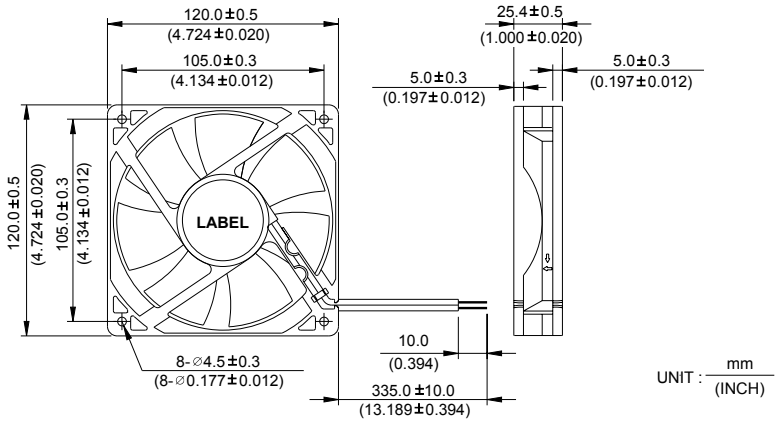
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 120 x 120 x 25.4 MM SERIES

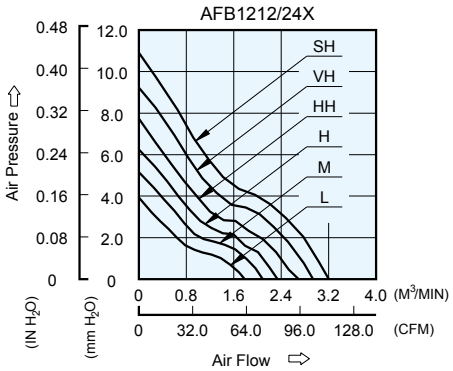


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 198g (6.98 oz)

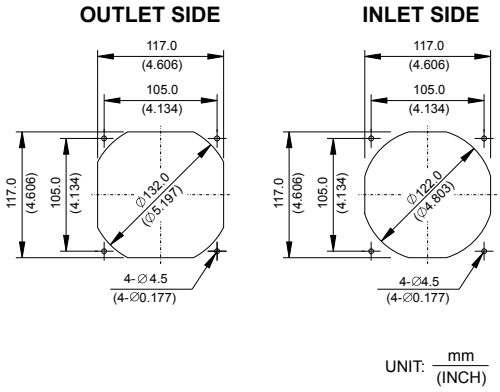
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB1212L	-R00 / -F00	12	7.0 to 13.8	0.14	1.68	1900	1.782	62.93	3.93	0.154	32.5
AFB1224L	-R00 / -F00	24	14.0 to 27.6	0.09	2.16						
AFB1212M	-R00 / -F00	12	7.0 to 13.8	0.18	2.16	2200	2.091	73.84	5.15	0.203	35.5
AFB1224M	-R00 / -F00	24	14.0 to 27.6	0.12	2.88						
AFB1212H	-R00 / -F00	12	7.0 to 13.8	0.23	2.76	2500	2.341	82.67	6.25	0.246	38.5
AFB1224H	-R00 / -F00	24	14.0 to 27.6	0.14	3.36						
AFB1212HH	-R00 / -F00	12	7.0 to 13.8	0.33	3.96	2800	2.694	95.14	7.73	0.304	41.5
AFB1224HH	-R00 / -F00	24	14.0 to 27.6	0.18	4.32						
AFB1212VH	-R00 / -F00	12	7.0 to 13.8	0.40	4.80	3100	2.938	103.75	9.43	0.371	44.5
AFB1224VH	-R00 / -F00	24	14.0 to 27.6	0.23	5.52						
AFB1212SH	-R00 / -F00	12	7.0 to 13.8	0.53	6.36	3400	3.203	113.11	10.92	0.430	46.5
AFB1224SH	-R00 / -F00	24	14.0 to 27.6	0.28	6.72						

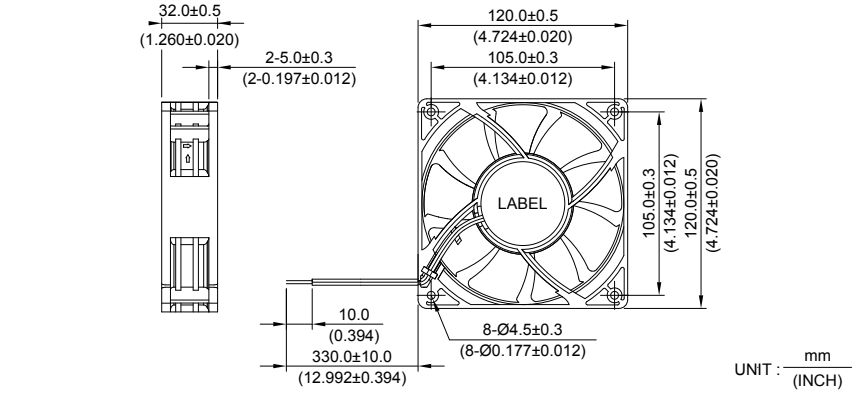
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 120 x 120 x 32 MM SERIES

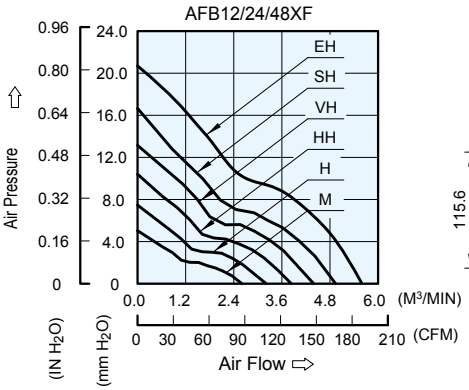


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 275g (9.70 oz)

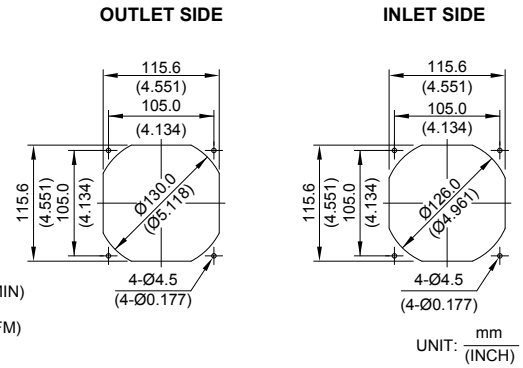
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB1212MF	-R00 / -F00	12	6.0 to 13.8	0.30	3.60	2300	2.602	91.88	5.04	0.198	39.5
AFB1224MF	-R00 / -F00	24	14.0 to 28.0	0.20	4.80						
AFB1248MF	-R00 / -F00	48	24.0 to 56.0	0.10	4.80						
AFB1212HF	-R00 / -F00	12	6.0 to 13.8	0.50	6.00	2800	3.209	113.33	7.47	0.294	44.0
AFB1224HF	-R00 / -F00	24	14.0 to 28.0	0.30	7.20						
AFB1248HF	-R00 / -F00	48	24.0 to 56.0	0.13	6.24						
AFB1212HHF	-R00 / -F00	12	6.0 to 13.8	0.65	7.80	3300	3.835	135.43	10.41	0.410	49.0
AFB1224HHF	-R00 / -F00	24	14.0 to 28.0	0.36	8.64						
AFB1248HHF	-R00 / -F00	48	24.0 to 56.0	0.21	10.08						
AFB1212VHF	-R00 / -F00	12	6.0 to 13.8	1.00	12.00	3800	4.394	155.18	13.14	0.517	52.5
AFB1224VHF	-R00 / -F00	24	14.0 to 28.0	0.50	12.00						
AFB1248VHF	-R00 / -F00	48	24.0 to 56.0	0.25	12.00						
AFB1212SHF	-R00 / -F00	12	6.0 to 13.8	1.35	16.20	4300	4.940	174.45	16.66	0.656	56.0
AFB1224SHF	-R00 / -F00	24	14.0 to 26.4	0.70	16.80						
AFB1248SHF	-R00 / -F00	48	24.0 to 56.0	0.35	16.80						
AFB1212EHF	-R00 / -F00	12	6.0 to 12.6	1.85	22.20	4800	5.625	198.64	21.24	0.836	59.0

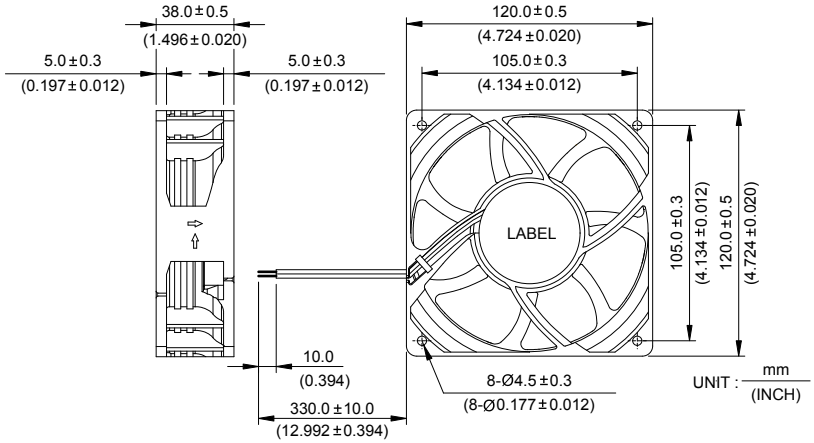
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from in take side.
* All reading sare typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 120 x 120 x 38 MM SERIES

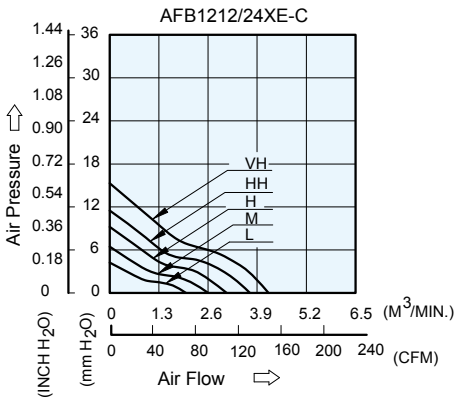


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 320g (11.28 oz)

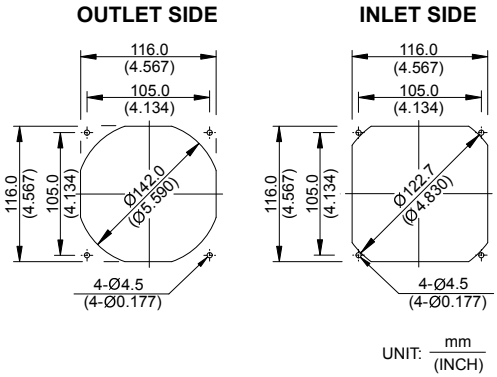
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
AFB1212LE	-C	-R00 / -F00	12	6.0 to 12.8	0.14	1.68	2000	2.018	71.27	4.22	0.166	32.5
AFB1224LE	-C	-R00 / -F00	24	14.0 to 27.6	0.11	2.64						
AFB1212ME	-C	-R00 / -F00	12	6.0 to 12.8	0.27	3.24	2500	2.604	91.95	6.45	0.254	38.0
AFB1224ME	-C	-R00 / -F00	24	14.0 to 27.6	0.14	3.36						
AFB1212HE	-C	-R00 / -F00	12	6.0 to 12.8	0.35	4.20	3000	3.092	109.17	9.22	0.363	44.0
AFB1224HE	-C	-R00 / -F00	24	14.0 to 27.6	0.20	4.80						
AFB1212HHE	-C	-R00 / -F00	12	6.0 to 12.8	0.51	6.12	3500	3.704	130.80	11.48	0.452	47.0
AFB1224HHE	-C	-R00 / -F00	24	14.0 to 27.6	0.27	6.48						
AFB1212VHE	-C	-R00 / -F00	12	6.0 to 12.8	0.68	8.16	4000	4.201	148.34	15.29	0.602	51.0
AFB1224VHE	-C	-R00 / -F00	24	14.0 to 27.6	0.36	8.64						

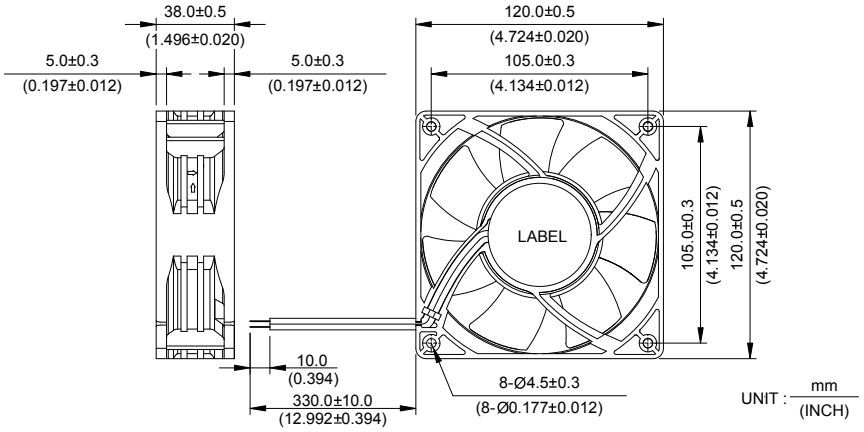
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

AFB 120 x 120 x 38 MM SERIES

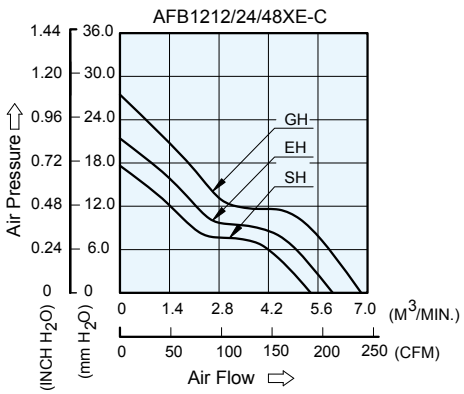


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 330g (11.64 oz)

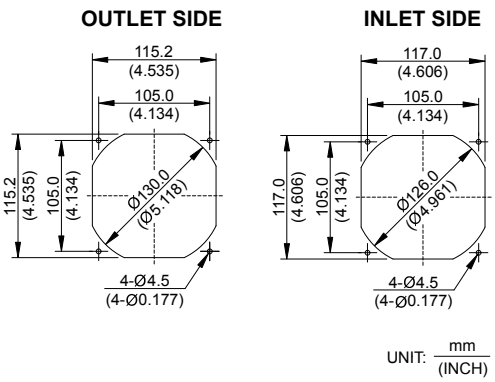
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
AFB1212SHE	-C	-R00 / -F00	12	6.0 to 13.8	1.25	15.00	4100	5.394	190.48	17.64	0.694	55.5
AFB1224SHE	-C	-R00 / -F00	24	14.0 to 28.0	0.62	14.88						
AFB1248SHE	-C	-R00 / -F00	48	24.0 to 56.0	0.31	14.88						
AFB1212EHE	-C	-R00 / -F00	12	6.0 to 13.8	1.80	21.60	4600	6.019	212.57	21.43	0.844	58.5
AFB1224EHE	-C	-R00 / -F00	24	14.0 to 28.0	0.85	20.40						
AFB1248EHE	-C	-R00 / -F00	48	24.0 to 56.0	0.48	23.04						
AFB1212GHE	-C	-R00 / -F00	12	6.0 to 12.8	2.45	29.40	5200	6.823	240.96	27.48	1.082	62.0
AFB1224GHE	-C	-R00 / -F00	24	14.0 to 28.0	1.15	27.60						
AFB1248GHE	-C	-R00 / -F00	48	24.0 to 53.0	0.60	28.80						

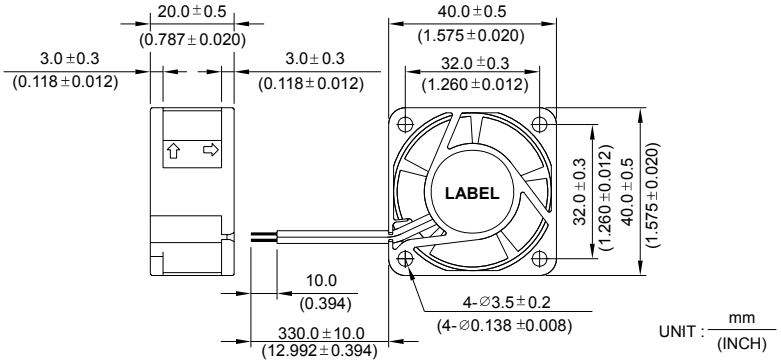
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

EFB 40 x 40 x 20 MM SERIES

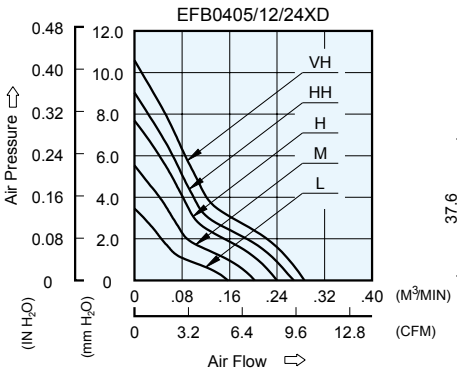


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 33g (1.16 oz)
* Rib Type Only

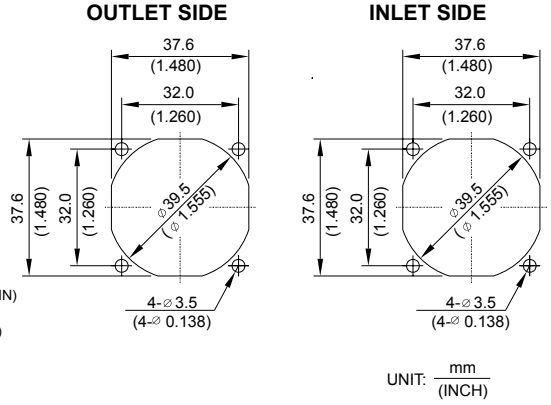
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
EFB0405LD	-R00 / -F00	5	4.5 to 5.5	0.10	0.50	5000	0.157	5.54	3.45	0.136	22.0
EFB0412LD	-R00 / -F00	12	7.0 to 13.8	0.05	0.60						
EFB0424LD	-R00 / -F00	24	14.0 to 27.6	0.04	0.96						
EFB0405MD	-R00 / -F00	5	4.5 to 5.5	0.15	0.75	6300	0.203	7.17	5.54	0.218	24.0
EFB0412MD	-R00 / -F00	12	7.0 to 13.8	0.06	0.72						
EFB0424MD	-R00 / -F00	24	14.0 to 27.6	0.05	1.20						
EFB0405HD	-R00 / -F00	5	4.5 to 5.5	0.25	1.25	7600	0.242	8.54	7.69	0.303	28.5
EFB0412HD	-R00 / -F00	12	7.0 to 13.8	0.08	0.96						
EFB0424HD	-R00 / -F00	24	14.0 to 27.6	0.06	1.44						
EFB0405HHD	-R00 / -F00	5	4.5 to 5.5	0.30	1.50	8200	0.267	9.43	9.00	0.354	30.5
EFB0412HHD	-R00 / -F00	12	7.0 to 13.8	0.10	1.20						
EFB0424HHD	-R00 / -F00	24	14.0 to 27.6	0.07	1.68						
EFB0405VHD	-R00 / -F00	5	4.5 to 5.5	0.32	1.60	9000	0.286	10.10	10.57	0.416	32.5
EFB0412VHD	-R00 / -F00	12	7.0 to 13.8	0.12	1.44						
EFB0424VHD	-R00 / -F00	24	14.0 to 27.6	0.09	2.16						

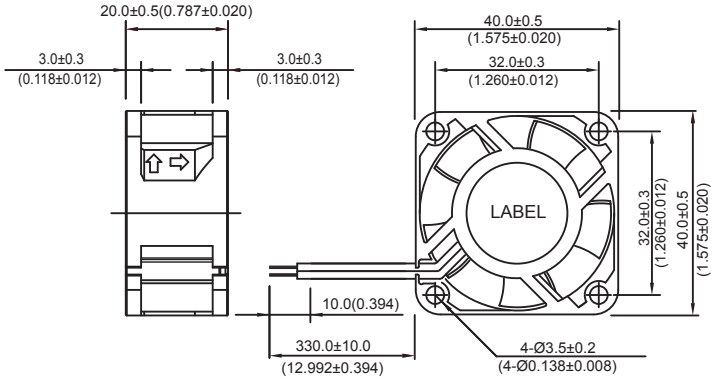
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

EFB 40 x 40 x 20 MM SERIES

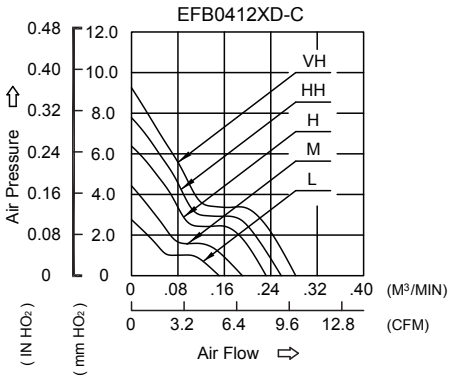


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative(-)
* Weight : 33g (1.16 oz)
* Flange Type Only

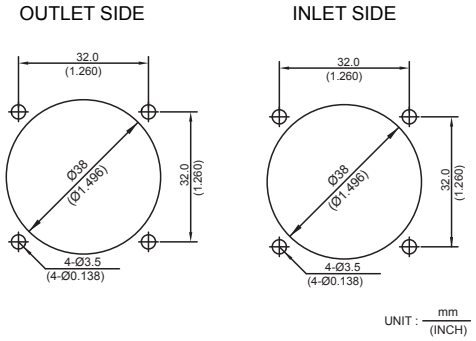
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
EFB0412LD	**-C**	-R00 / -F00	12	7.0 to 13.2	0.06	0.72	5000	0.151	5.32	2.76	0.109	22.5
EFB0412MD	**-C**	-R00 / -F00	12	7.0 to 13.2	0.07	0.84	6300	0.191	6.74	4.42	0.174	26.0
EFB0412HD	**-C**	-R00 / -F00	12	7.0 to 13.2	0.11	1.32	7600	0.232	8.21	6.38	0.251	31.0
EFB0412HHD	**-C**	-R00 / -F00	12	7.0 to 13.2	0.12	1.44	8200	0.258	9.12	7.78	0.306	33.0
EFB0412VHD	**-C**	-R00 / -F00	12	7.0 to 13.2	0.14	1.68	9000	0.283	9.99	9.26	0.364	35.0

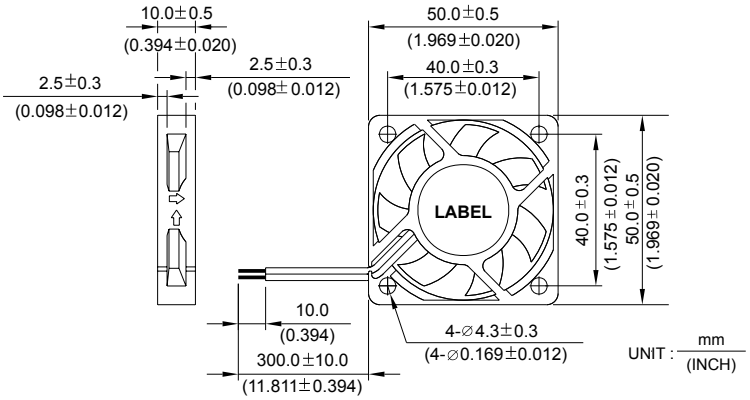
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

EFB 50 x 50 x 10 MM SERIES

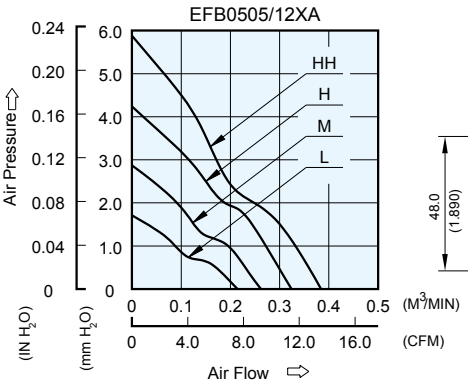


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 2468 AWG #28 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 25g (0.88 oz)
* Rib Type Only

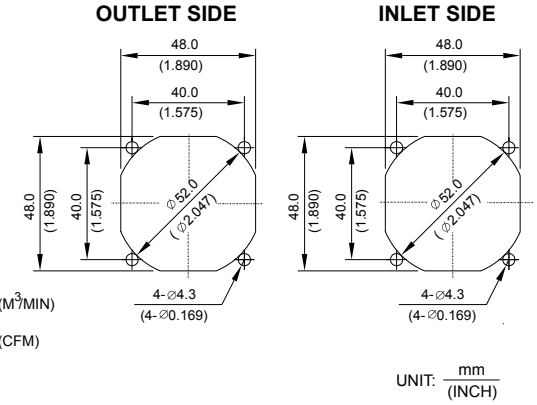
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDCz	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
EFB0505LA	-R00 / -F00	5	4.5 to 5.5	0.07	0.35	3500	0.212	7.50	1.72	0.068	18.0
EFB0512LA	-R00 / -F00	12	7.0 to 13.8	0.05	0.60						
EFB0505MA	-R00 / -F00	5	4.5 to 5.5	0.13	0.65	4500	0.261	9.21	2.87	0.113	25.0
EFB0512MA	-R00 / -F00	12	7.0 to 13.8	0.08	0.96						
EFB0505HA	-R00 / -F00	5	4.5 to 5.5	0.20	1.00	5500	0.323	11.40	4.24	0.167	30.0
EFB0512HA	-R00 / -F00	12	7.0 to 13.8	0.10	1.20						
EFB0512HHA	-R00 / -F00	12	7.0 to 13.8	0.15	1.80	6500	0.384	13.57	5.89	0.232	35.0

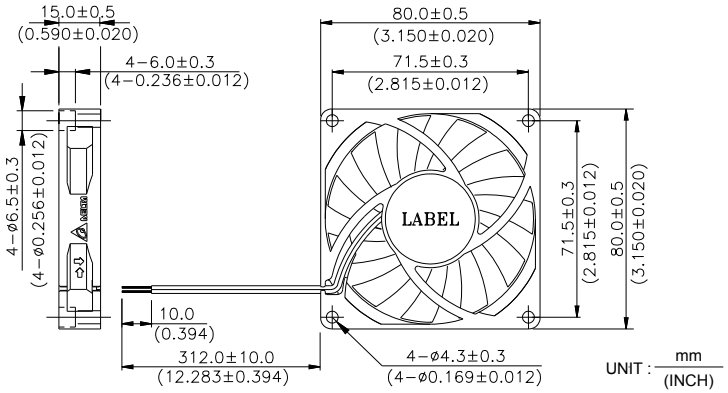
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

EFB 80 x 80 x 15 MM SERIES

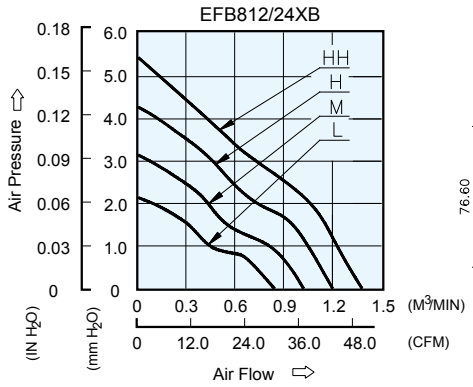


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 67g (2.36 oz)
* Rib Type Only

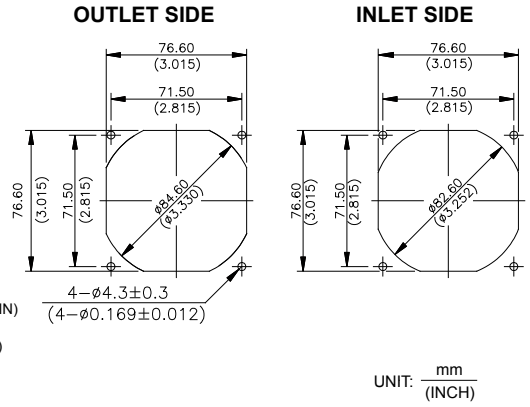
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDCz	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
EFB0812LB	-R00 / -F00	12	5.0 to 13.8	0.10	1.20	2300	0.839	29.62	1.71	0.067	30.0
EFB0824LB	-R00 / -F00	24	14.0 to 27.6	0.08	1.92						
EFB0812MB	-R00 / -F00	12	5.0 to 13.8	0.13	1.56	2800	1.020	36.02	2.51	0.099	33.0
EFB0824MB	-R00 / -F00	24	14.0 to 27.6	0.11	2.64						
EFB0812HB	-R00 / -F00	12	5.0 to 13.2	0.21	2.52	3300	1.200	42.37	3.42	0.134	37.0
EFB0824HB	-R00 / -F00	24	14.0 to 27.6	0.14	3.36						
EFB0812HHB	-R00 / -F00	12	5.0 to 13.2	0.33	3.96	3800	1.382	48.80	4.35	0.171	41.0
EFB0824HHB	-R00 / -F00	24	14.0 to 27.6	0.20	4.80						

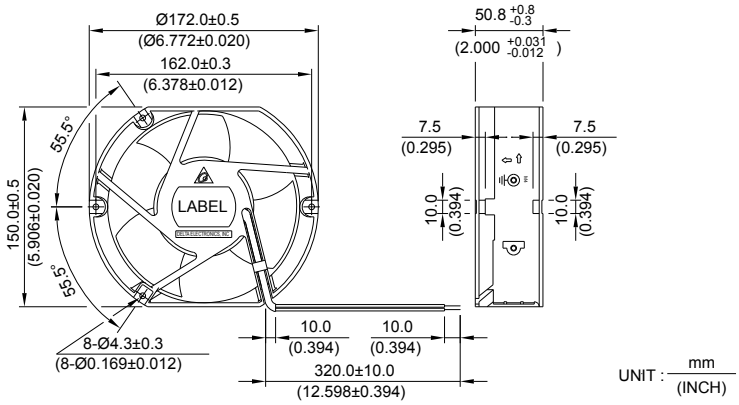
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.
* Both of the ball bearing and the 1 ball + 1 Sleeve type are available.

EFB 172 x 150 x 50.8 MM SERIES

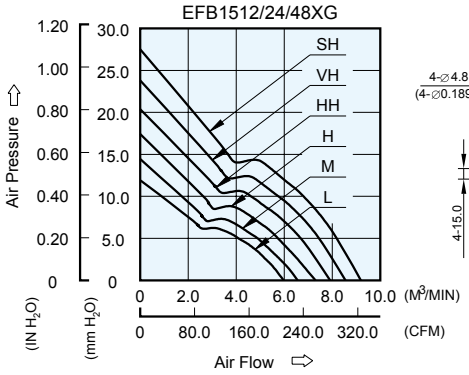


* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic (UL 94V-0)
  Frame: Die-cast Aluminum
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 840g (29.62 oz)

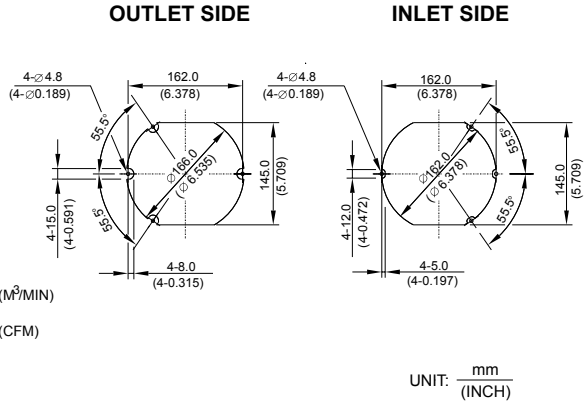
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
EFB1512LG	-R00 / -F00	12	8.0 to 14.0	0.79	9.48	2800	5.950	210.12	11.90	0.469	50.0
EFB1524LG	-R00 / -F00	24	12.0 to 28.0	0.39	9.36						
EFB1548LG	-R00 / -F00	48	24.0 to 60.0	0.19	9.12						
EFB1512MG	-R00 / -F00	12	8.0 to 14.0	0.99	11.88	3050	6.520	230.25	14.50	0.571	52.0
EFB1524MG	-R00 / -F00	24	12.0 to 28.0	0.47	11.28						
EFB1548MG	-R00 / -F00	48	24.0 to 60.0	0.25	12.00						
EFB1512HG	-R00 / -F00	12	8.0 to 14.0	1.35	16.20	3350	7.130	251.79	17.49	0.689	55.0
EFB1524HG	-R00 / -F00	24	12.0 to 28.0	0.56	13.44						
EFB1548HG	-R00 / -F00	48	24.0 to 60.0	0.31	14.88						
EFB1512HHG	-R00 / -F00	12	8.0 to 14.0	1.79	21.48	3700	7.920	279.69	20.30	0.800	57.5
EFB1524HHG	-R00 / -F00	24	12.0 to 28.0	0.77	18.48						
EFB1548HHG	-R00 / -F00	48	24.0 to 60.0	0.38	18.24						
EFB1524VHG	-R00 / -F00	24	12.0 to 28.0	0.97	23.28	4000	8.560	302.29	23.80	0.937	60.0
EFB1548VHG	-R00 / -F00	48	24.0 to 60.0	0.49	23.52						
EFB1524SHG	-R00 / -F00	24	12.0 to 28.0	1.17	28.08	4300	9.203	325.00	27.50	1.083	63.0

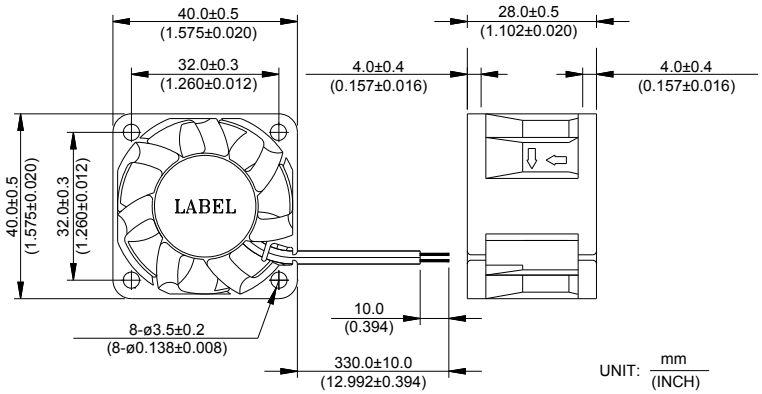
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

FFB 40 x 40 x 28 MM SERIES

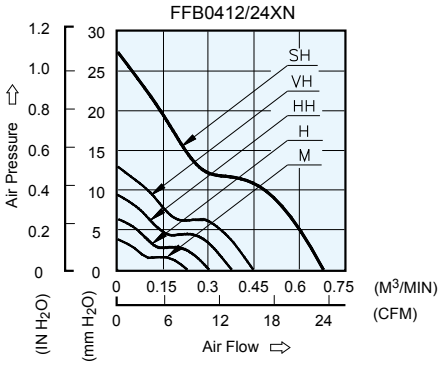


* Bearing Type
  Ball Bearings
* Material
  Impeller & Pillow : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 32g (1.13 oz)

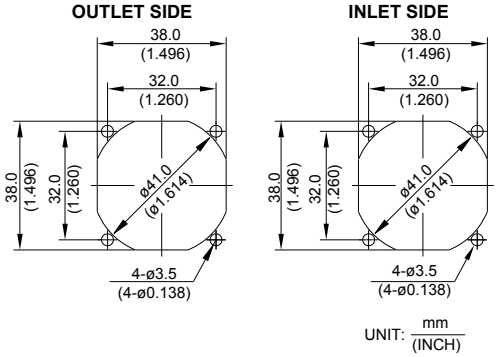
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
FFB0412MN	-R00/-F00	12	4.5 to 13.8	0.05	0.60	5000	0.228	8.05	3.77	0.148	30.0
FFB0424MN	-R00/-F00	24	14.0 to 27.6	0.04	0.96						
FFB0412HN	-R00/-F00	12	4.5 to 13.8	0.07	0.84	6500	0.300	10.59	6.30	0.248	36.0
FFB0424HN	-R00/-F00	24	14.0 to 27.6	0.06	1.44						
FFB0412HHN	-R00/-F00	12	4.5 to 13.8	0.11	1.32	8000	0.375	13.24	9.39	0.370	41.0
FFB0424HHN	-R00/-F00	24	14.0 to 27.6	0.08	1.92						
FFB0412VHN	-R00/-F00	12	4.5 to 13.8	0.16	1.92	9500	0.447	15.79	12.94	0.509	45.0
FFB0424VHN	-R00/-F00	24	14.0 to 26.4	0.10	2.40						
FFB0412SHN	-R00/-F00	12	4.5 to 13.8	0.50	6.00	13000	0.680	24.00	27.30	1.075	54.5

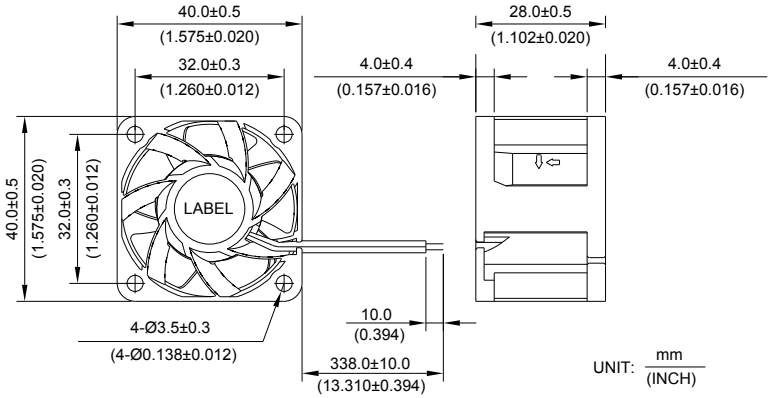
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

FFB 40 x 40 x 28 MM SERIES

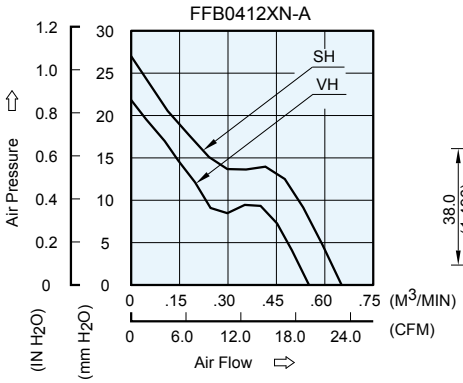


* Bearing Type
  Ball Bearings
* Material
  Impeller & Pillow : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 35g (1.23 oz)

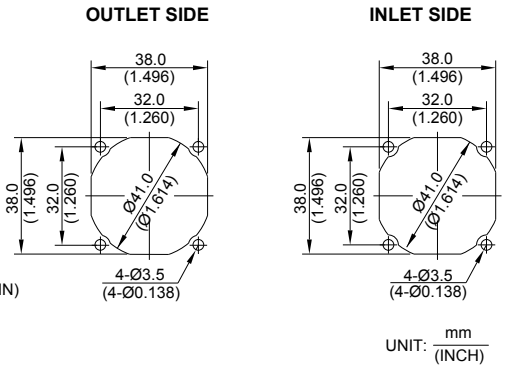
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
FFB0412VHN	-A	-R00/-F00	12	4.0 to 12.6	0.30	3.60	11000	0.543	19.16	18.99	0.748	48.5
FFB0412SHN	-A	-R00/-F00	12	4.0 to 12.6	0.40	4.80	13000	0.653	23.05	27.07	1.066	52.5

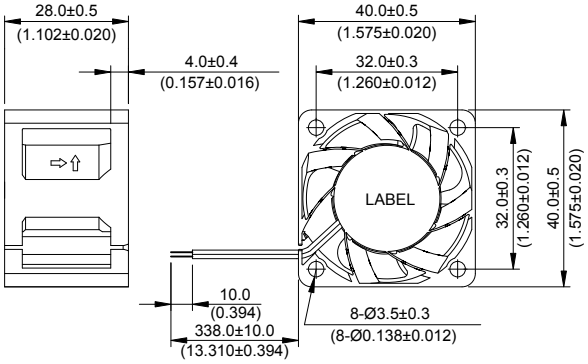
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

FFB 40 x 40 x 28 MM SERIES



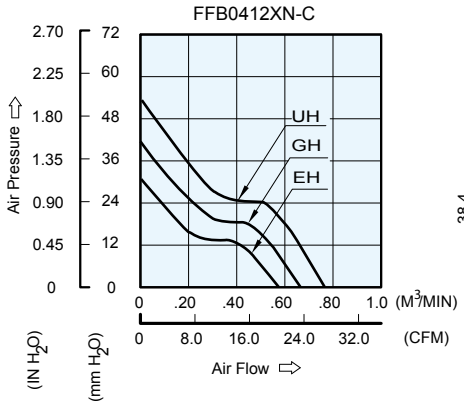
* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #26 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 47g (1.66 oz)

■ DIMENSIONS DRAWING

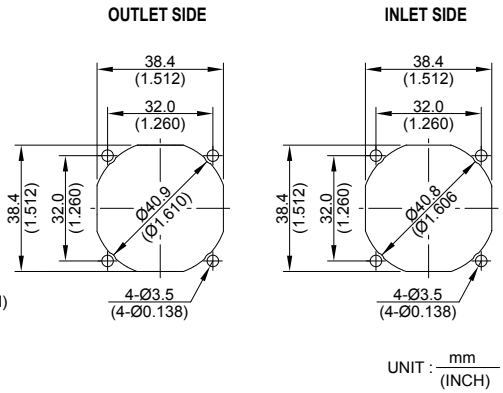


UNIT : mm (INCH)

■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



UNIT : mm (INCH)

MODEL			Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
FFB0412EHN	-C	-R00 / -F00	12	5.5 to 13.2	0.33	3.96	14500	0.576	20.34	31.28	1.232	53.0
FFB0412GHN	-C	-R00 / -F00	12	5.5 to 13.2	0.50	6.00	16500	0.662	23.39	41.60	1.638	56.0
FFB0412UHN	-C	-R00 / -F00	12	5.5 to 13.2	0.65	7.80	18500	0.766	27.05	53.63	2.111	58.5

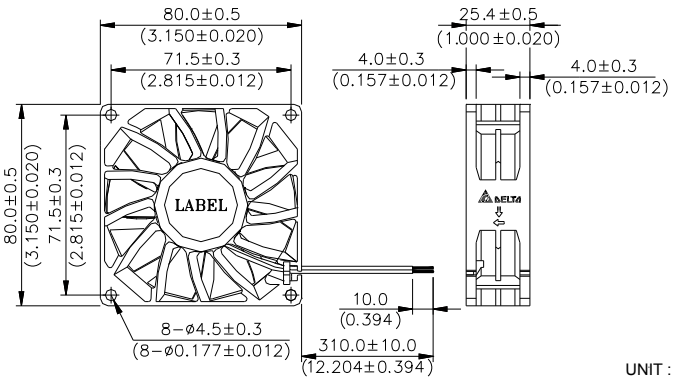
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

FFB 80 x 80 x 25.4 MM SERIES

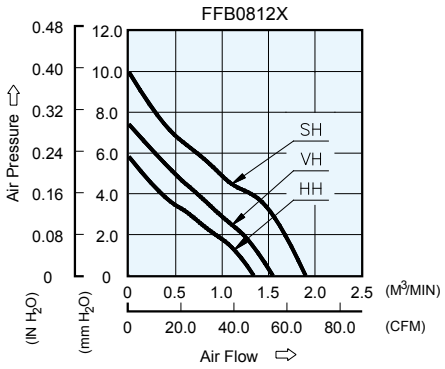


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 115g (4.06 oz)

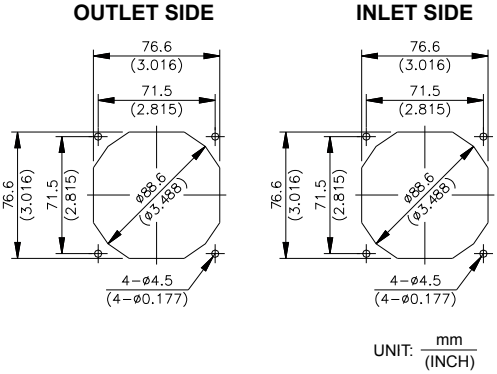
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
FFB0812HH	-R00 / -F00	12	7.0 to 13.2	0.26	3.12	3500	1.339	47.22	5.81	0.229	41.7
FFB0812VH	-R00 / -F00	12	7.0 to 13.2	0.34	4.08	4000	1.545	54.56	7.39	0.291	45.4
FFB0812SH	-R00 / -F00	12	7.0 to 13.2	0.50	6.00	4500	1.898	67.02	9.95	0.392	48.6

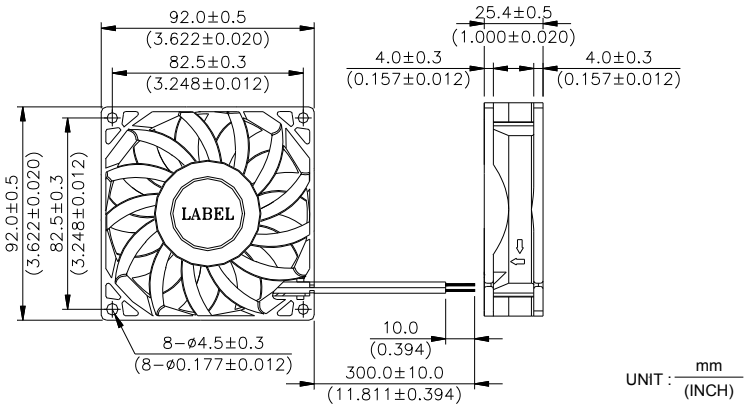
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

FFB 92 x 92 x 25.4 MM SERIES

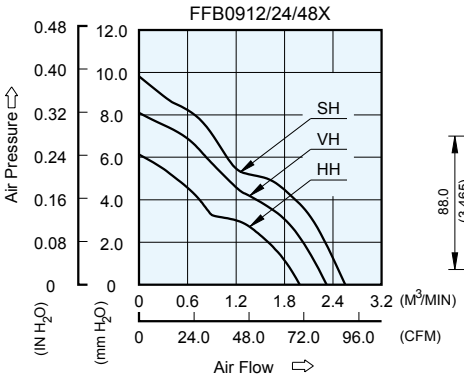


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 128g (4.51 oz)

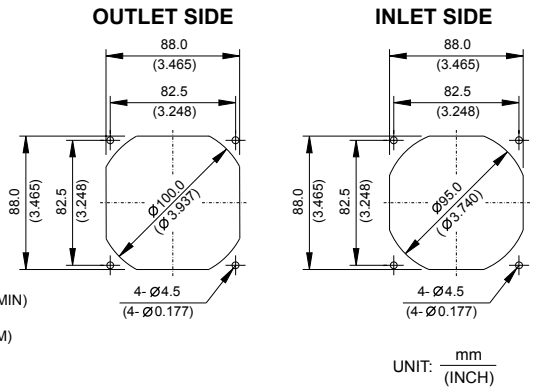
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
FFB0912HH	-R00 / -F00	12	7.0 to 13.8	0.40	4.80	3200	1.988	70.21	6.14	0.242	44.1
FFB0924HH	-R00 / -F00	24	14.0 to 27.6	0.24	5.76						
FFB0948HH	-R00 / -F00	48	28.0 to 53.0	0.14	6.72						
FFB0912VH	-R00 / -F00	12	7.0 to 13.8	0.60	7.20	3700	2.321	81.97	8.11	0.319	48.2
FFB0924VH	-R00 / -F00	24	14.0 to 27.6	0.31	7.44						
FFB0948VH	-R00 / -F00	48	28.0 to 53.0	0.17	8.16						
FFB0912SH	-R00 / -F00	12	7.0 to 13.8	0.69	8.28	4100	2.550	90.05	10.06	0.396	50.0

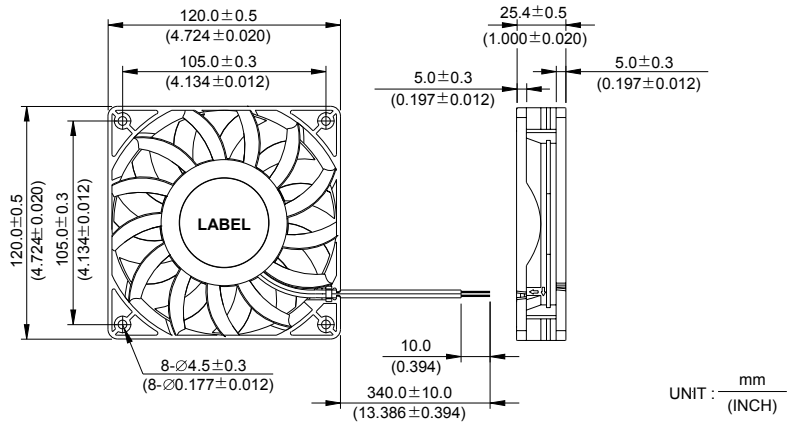
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

FFB 120 x 120 x 25.4 MM SERIES

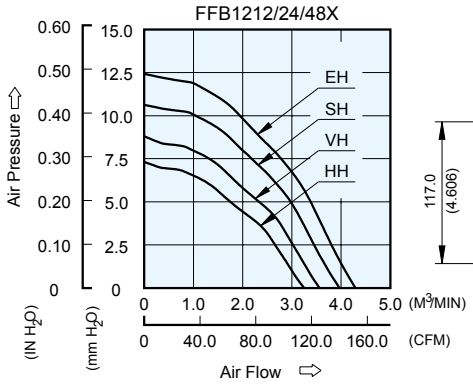


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 205g (7.23 oz)

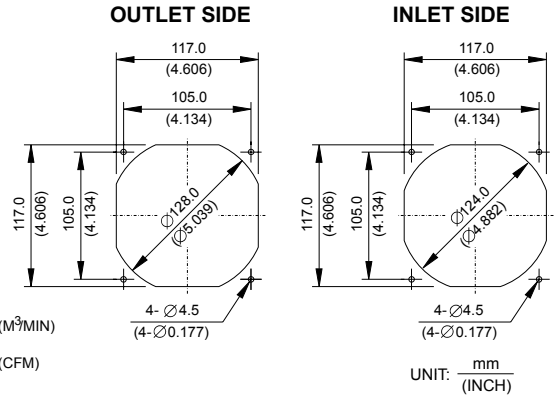
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
FFB1212HH	-R00 / -F00	12	7.0 to 13.2	0.65	7.80	3100	3.249	114.73	7.32	0.288	49.7
FFB1224HH	-R00 / -F00	24	14.0 to 26.4	0.28	6.72						
FFB1248HH	-R00 / -F00	48	28.0 to 56.0	0.14	6.72						
FFB1212VH	-R00 / -F00	12	7.0 to 13.2	0.79	9.48	3400	3.592	126.85	8.29	0.326	51.9
FFB1224VH	-R00 / -F00	24	14.0 to 26.4	0.37	8.88						
FFB1248VH	-R00 / -F00	48	28.0 to 56.0	0.18	8.64						
FFB1212SH	-R00 / -F00	12	7.0 to 13.2	1.03	12.36	3700	3.969	140.16	10.64	0.419	54.3
FFB1224SH	-R00 / -F00	24	14.0 to 26.4	0.52	12.48						
FFB1248SH	-R00 / -F00	48	28.0 to 53.0	0.25	12.00						
FFB1212EH	-R00 / -F00	12	7.0 to 13.2	1.45	17.40	4000	4.257	150.33	12.43	0.489	56.4
FFB1224EH	-R00 / -F00	24	14.0 to 26.4	0.63	15.12						
FFB1248EH	-R00 / -F00	48	28.0 to 53.0	0.32	15.36						

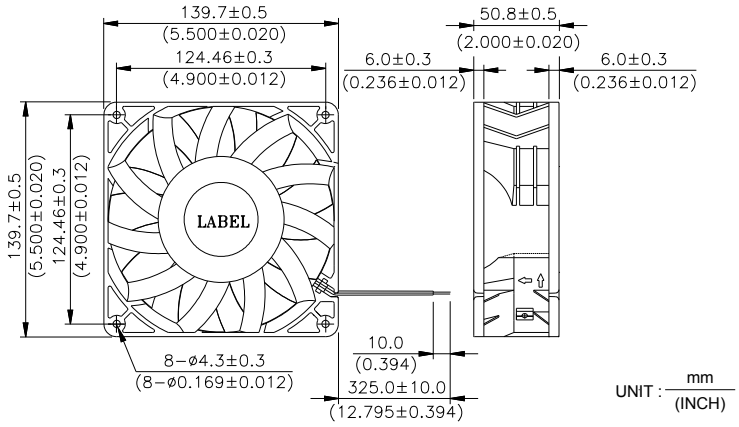
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

FFB 140 x 140 x 50.8 MM SERIES

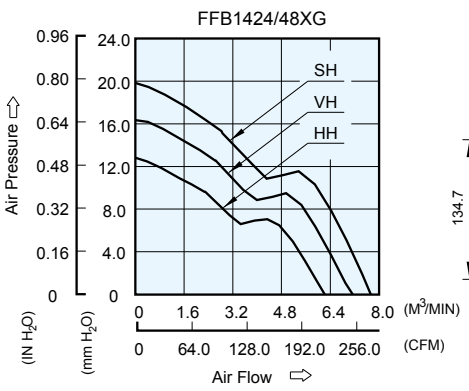


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1430 AWG #22 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
* Weight : 670g (23.63 oz)

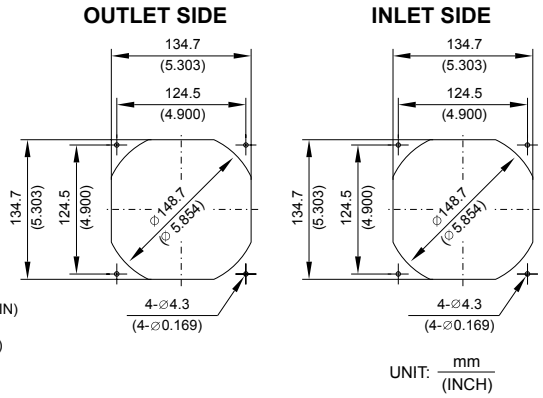
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
FFB1424HHG	-R00 / -F00	24	14.0 to 26.4	0.71	17.04	2800	6.222	219.73	12.84	0.506	54.5
FFB1448HHG	-R00 / -F00	48	28.0 to 53.0	0.36	17.28						
FFB1424VHG	-R00 / -F00	24	14.0 to 26.4	0.91	21.84	3200	7.139	252.11	16.36	0.644	58.5
FFB1448VHG	-R00 / -F00	48	28.0 to 53.0	0.50	24.00						
FFB1424SHG	-R00 / -F00	24	14.0 to 26.4	1.53	36.72	3600	7.733	273.09	19.84	0.781	61.7
FFB1448SHG	-R00 / -F00	48	28.0 to 53.0	0.77	36.96						

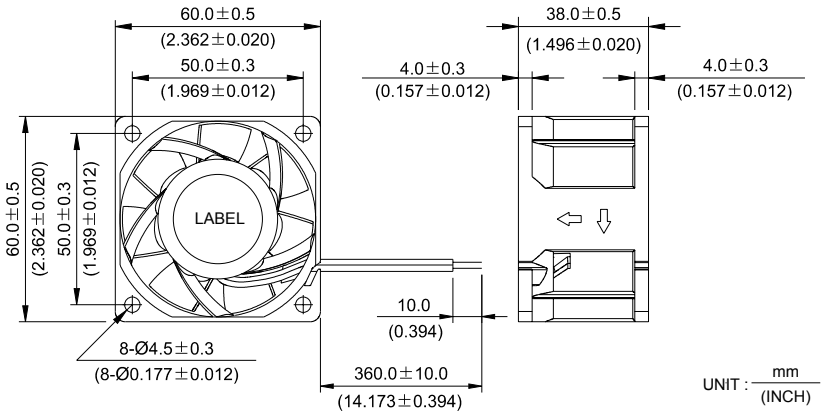
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

PFB 60 x 60 x 38 MM SERIES

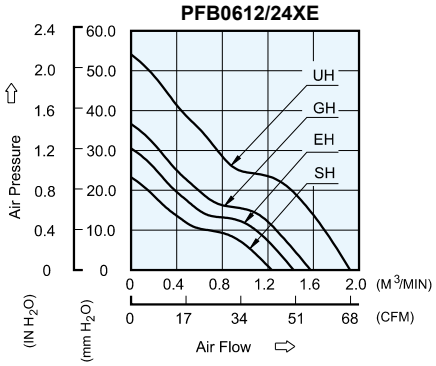


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame: Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 130g (4.59 oz)

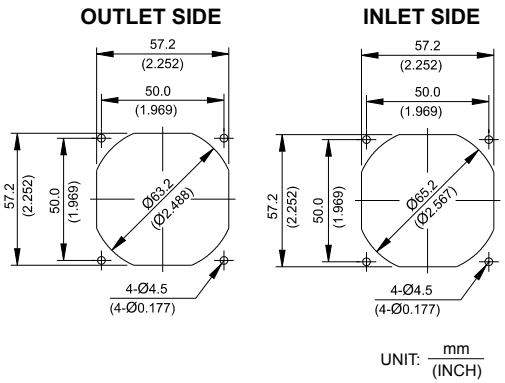
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDCz	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
PFB0612SHE	-R00 / -F00	12	7.0 to 13.2	0.48	5.76	8000	1.234	43.57	23.32	0.918	50.5
PFB0624SHE	-R00 / -F00	24	14.0 to 26.4	0.28	6.72						
PFB0612EHE	-R00 / -F00	12	7.0 to 13.2	0.63	7.56	9000	1.428	50.43	30.56	1.203	54.0
PFB0624EHE	-R00 / -F00	24	14.0 to 26.4	0.36	8.64						
PFB0612GHE	-R00 / -F00	12	7.0 to 13.2	0.85	10.20	10000	1.575	55.62	36.68	1.444	57.5
PFB0624GHE	-R00 / -F00	24	14.0 to 26.4	0.48	11.52						
PFB0612UHE	-R00 / -F00	12	7.0 to 13.2	1.40	16.80	12000	1.922	67.85	54.10	2.129	61.5

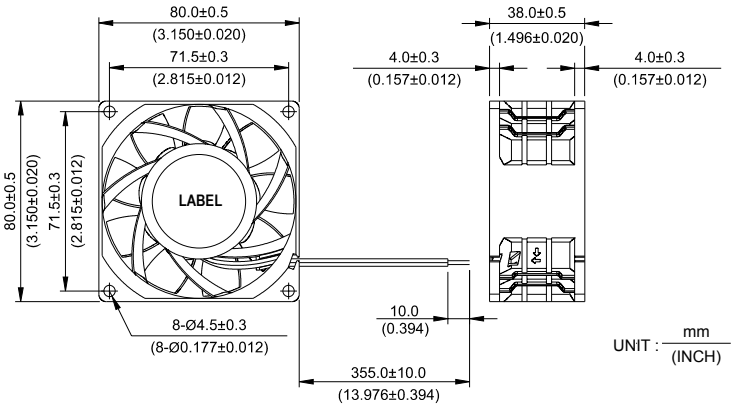
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

PFB 80 x 80 x 38 MM SERIES

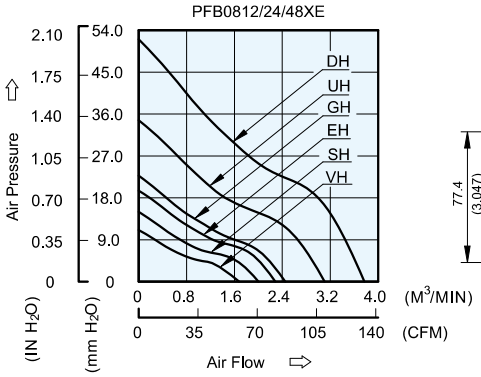


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame: Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 200g (7.05 oz)

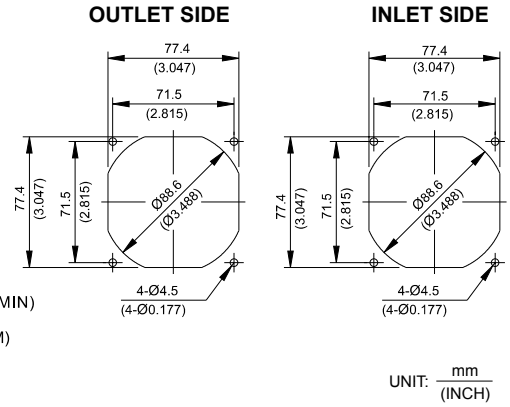
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



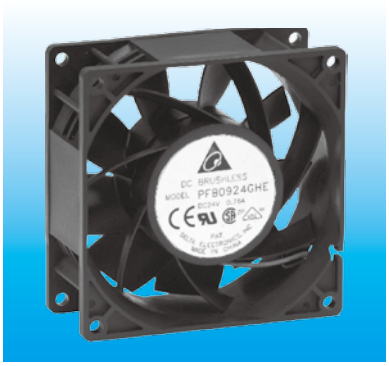
■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
PFB0812VHE	-R00 / -F00	12	7.0 to 13.2	0.39	4.68	4200	1.649	58.23	10.70	0.421	45.1
PFB0812SHE	-R00 / -F00	12	7.0 to 13.2	0.51	6.12	4900	1.967	69.49	14.53	0.571	49.3
PFB0812EHE	-R00 / -F00	12	7.0 to 13.2	0.72	8.64	5600	2.243	79.23	19.50	0.767	53.0
PFB0824EHE	-R00 / -F00	24	14.0 to 26.4	0.36	8.64						
PFB0848EHE	-R00 / -F00	48	28.0 to 56.0	0.23	11.04						
PFB0812GHE	-R00 / -F00	12	7.0 to 13.2	0.85	10.20	6100	2.448	86.44	22.80	0.898	55.5
PFB0824GHE	-R00 / -F00	24	14.0 to 26.4	0.45	10.80						
PFB0848GHE	-R00 / -F00	48	28.0 to 56.0	0.27	12.96						
PFB0812UHE	-R00 / -F00	12	7.0 to 13.2	1.55	18.60	7500	3.038	107.30	34.75	1.368	61.0
PFB0824UHE	-R00 / -F00	24	14.0 to 26.4	0.77	18.48						
PFB0848UHE	-R00 / -F00	48	28.0 to 56.0	0.42	20.16						
PFB0812DHE	-R00 / -F00	12	7.0 to 13.2	2.75	33.00	9000	3.754	132.56	51.57	2.030	65.0
PFB0824DHE	-R00 / -F00	24	14.0 to 26.4	1.35	32.40						

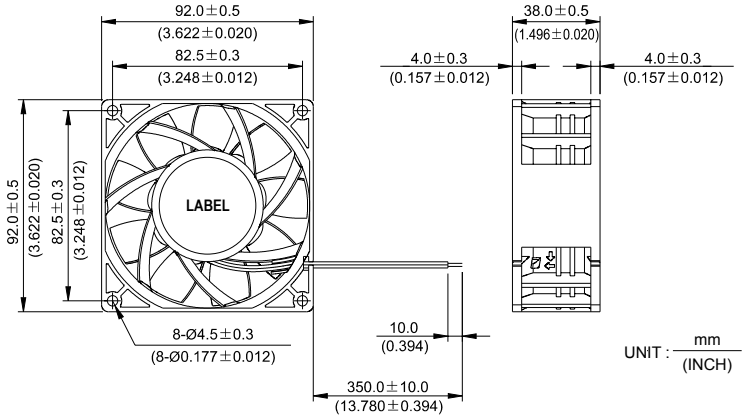
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

PFB 92 x 92 x 38 MM SERIES

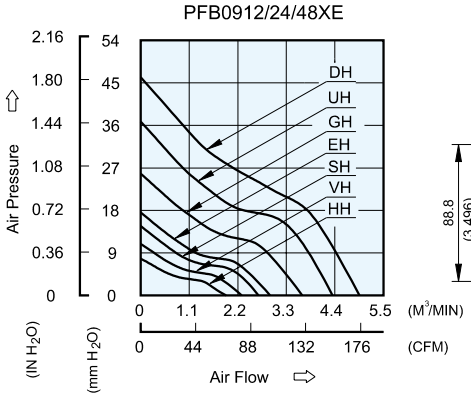


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame: Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 250g (8.82 oz)

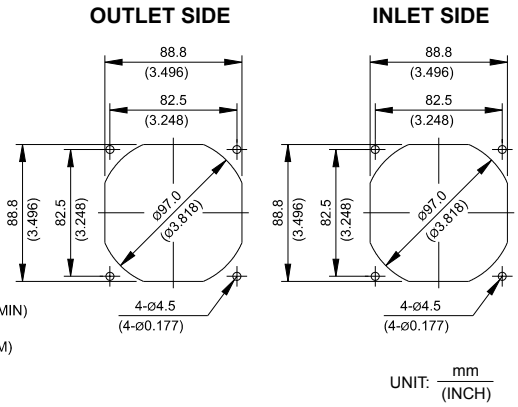
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
PFB0912HHE	-R00 / -F00	12	7.0 to 13.2	0.33	3.96	3200	1.933	68.26	7.76	0.305	43.5
PFB0912VHE	-R00 / -F00	12	7.0 to 13.2	0.38	4.56	3800	2.287	80.77	10.88	0.428	46.2
PFB0912SHE	-R00 / -F00	12	7.0 to 13.2	0.55	6.60	4400	2.668	94.22	14.67	0.578	51.7
PFB0912EHE	-R00 / -F00	12	7.0 to 13.2	0.68	8.16	4800	2.936	103.67	17.56	0.691	54.0
PFB0924EHE	-R00 / -F00	24	14.0 to 26.4	0.33	7.92						
PFB0948EHE	-R00 / -F00	48	28.0 to 56.0	0.21	10.08						
PFB0912GHE	-R00 / -F00	12	7.0 to 13.2	1.22	14.64	6000	3.662	129.31	25.78	1.015	60.5
PFB0924GHE	-R00 / -F00	24	14.0 to 26.4	0.63	15.12						
PFB0948GHE	-R00 / -F00	48	28.0 to 56.0	0.36	16.80						
PFB0912UHE	-R00 / -F00	12	7.0 to 13.2	1.96	23.52	7000	4.347	153.52	36.79	1.449	64.0
PFB0924UHE	-R00 / -F00	24	14.0 to 26.4	1.02	24.48						
PFB0948UHE	-R00 / -F00	48	28.0 to 56.0	0.60	28.80						
PFB0912DHE	-R00 / -F00	12	7.0 to 13.2	3.10	37.20	8000	4.957	175.03	46.21	1.819	66.5
PFB0924DHE	-R00 / -F00	24	14.0 to 26.4	1.45	34.80						

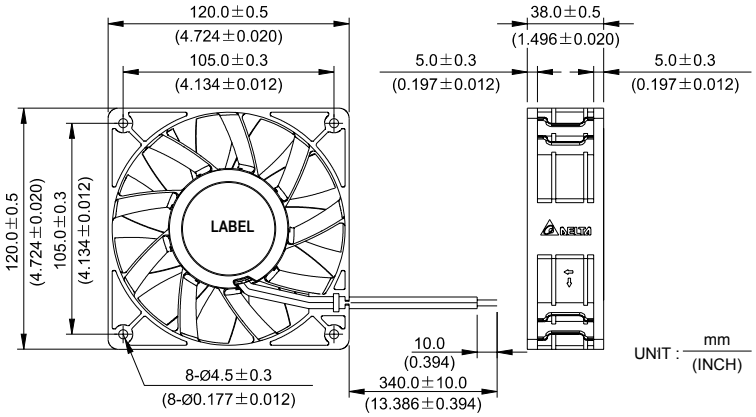
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

PFB 120 x 120 x 38 MM SERIES

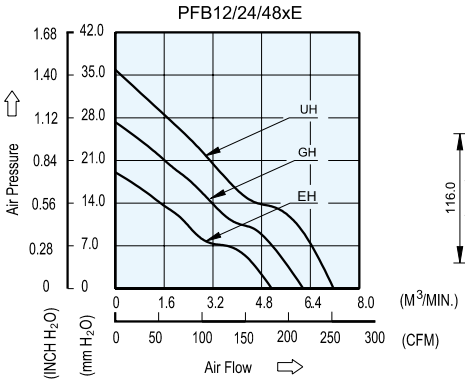


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame: Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 380g (13.40 oz)

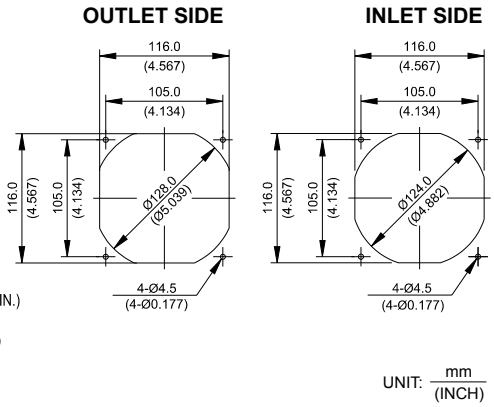
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



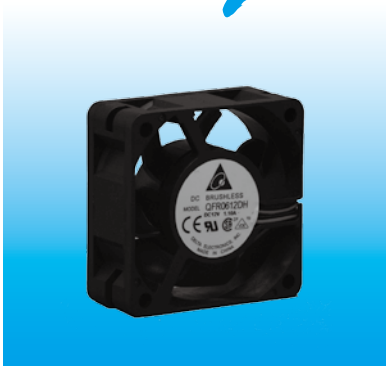
■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
PFB1212EHE	-R00 / -F00	12	8.0 to 13.2	1.60	19.20	4000	5.133	181.27	19.08	0.751	59.0
PFB1224EHE	-R00 / -F00	24	14.0 to 26.5	0.90	21.60						
PFB1248EHE	-R00 / -F00	48	30.0 to 56.0	0.45	21.60						
PFB1212GHE	-R00 / -F00	12	8.0 to 13.2	2.70	32.40	4800	6.167	217.79	27.31	1.075	64.0
PFB1224GHE	-R00 / -F00	24	14.0 to 26.5	1.35	32.40						
PFB1248GHE	-R00 / -F00	48	30.0 to 56.0	0.68	32.64						
PFB1212UHE	-R00 / -F00	12	8.0 to 13.2	4.00	48.00	5500	7.160	252.85	35.88	1.412	66.5
PFB1224UHE	-R00 / -F00	24	14.0 to 26.5	2.00	48.00						
PFB1248UHE	-R00 / -F00	48	30.0 to 56.0	1.00	48.00						

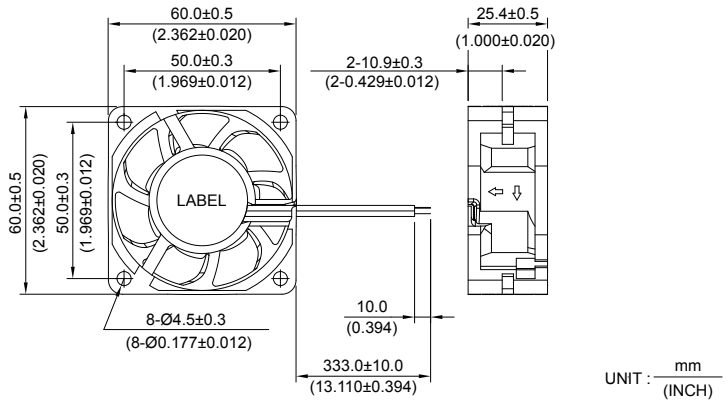
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

QFR 60 x 60 x 25.4 MM SERIES

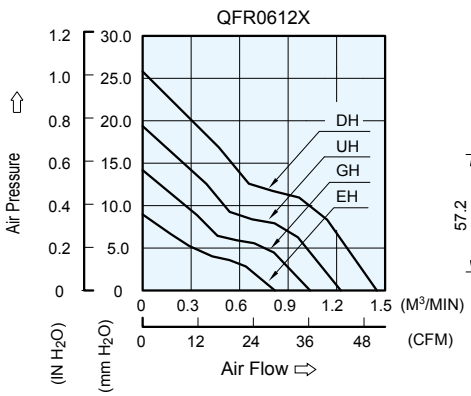


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 90g (3.17 oz)

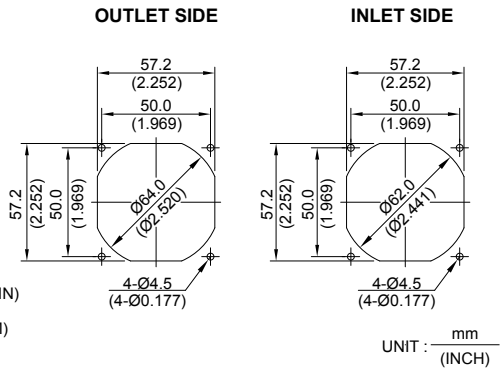
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	**Maximum** Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
QFR0612EH-B	-R00 / -F00	12	7.0 to 13.2	0.20	2.40	6000	0.818	28.89	8.96	0.353	39.0
QFR0612GH-B	-R00 / -F00	12	7.0 to 13.2	0.30	3.60	7600	1.036	36.59	14.18	0.558	44.7
QFR0612UH-B	-R00 / -F00	12	7.0 to 13.2	0.47	5.64	9000	1.226	43.30	19.37	0.763	49.7
QFR0612DH-B	-R00 / -F00	12	7.0 to 13.2	0.75	9.00	10600	1.449	51.17	25.80	1.016	54.5

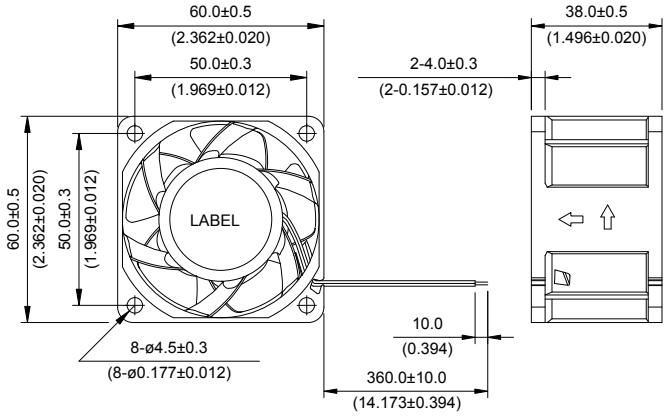
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

QFR 60 x 60 x 38 MM SERIES

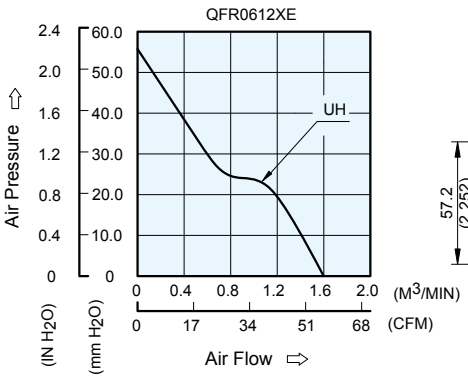


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative(-)
* Weight : 130g (4.59 oz)

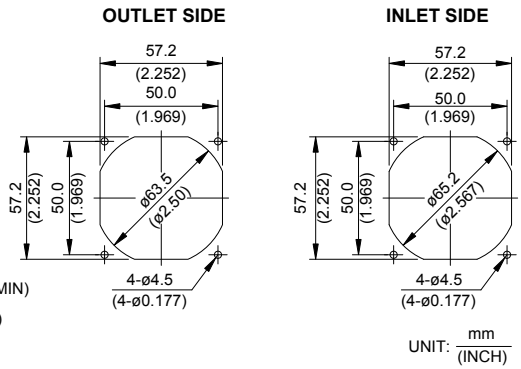
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
QFR0612UHE	-R00 / -F00	12	7.0 to 13.2	1.10	13.20	13000	1.599	56.45	55.73	2.194	61.5

* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

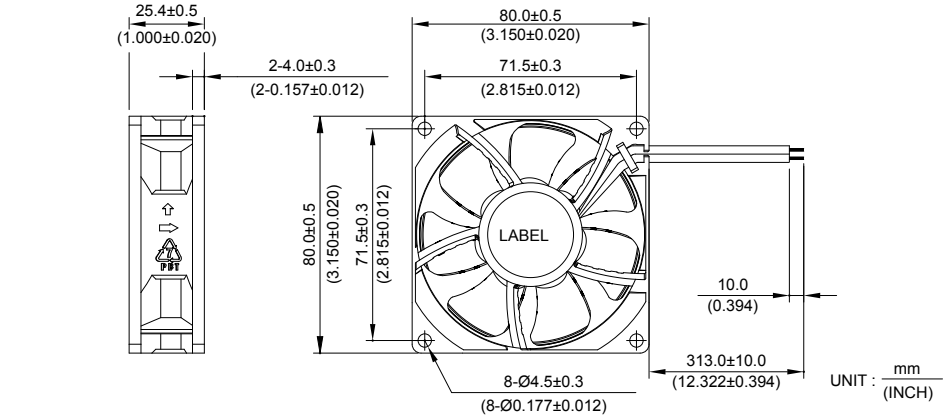
QFR 80 x 80 x 25.4 MM SERIES

New

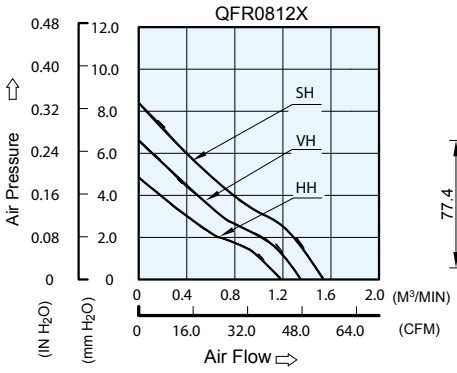


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 88 g (3.10 oz)

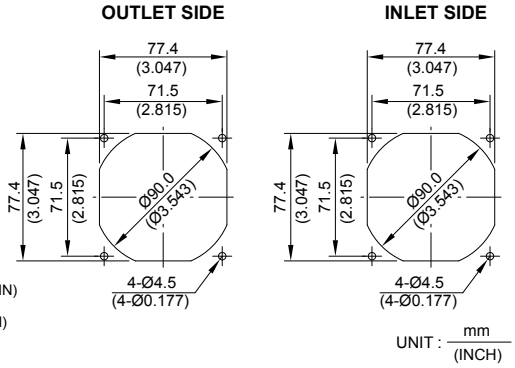
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
QFR0812HH	-R00 / -F00	12	5.0 to 13.2	0.16	1.92	3300	1.175	41.50	4.81	0.189	36.4
QFR0812VH	-R00 / -F00	12	5.0 to 13.2	0.21	2.52	3800	1.354	47.80	6.40	0.251	39.5
QFR0812SH	-R00 / -F00	12	5.0 to 13.2	0.33	3.96	4300	1.545	54.57	8.40	0.331	41.2

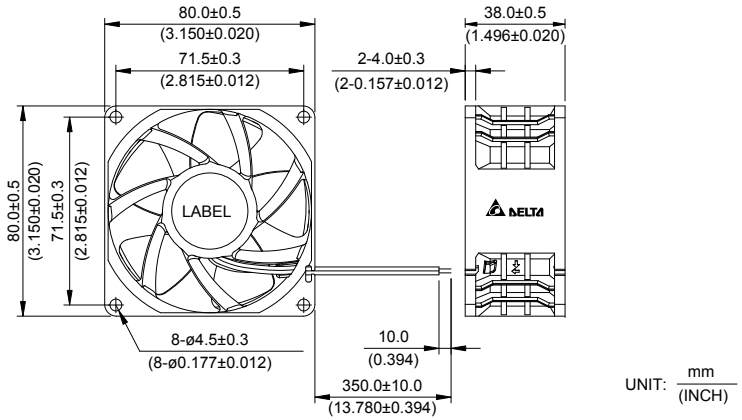
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

QFR 80 x 80 x 38 MM SERIES

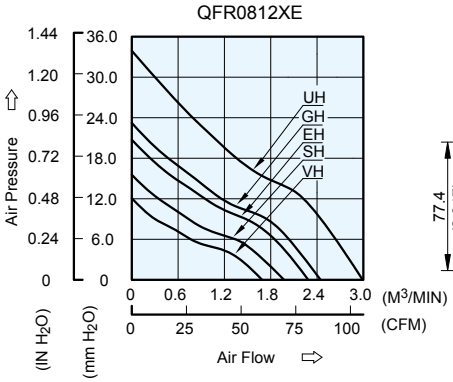


* Bearing Type
  Ball Bearings
* Material
  Impeller & Pillow : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 160g (5.64 oz)

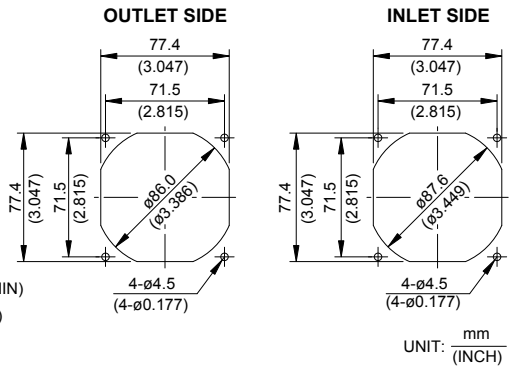
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
QFR0812VHE	-R00/-F00	12	7.0 to 13.2	0.29	3.48	5200	1.688	59.62	12.08	0.476	44.4
QFR0812SHE	-R00/-F00	12	7.0 to 13.2	0.40	4.80	5900	1.907	67.35	15.04	0.592	48.4
QFR0812EHE	-R00/-F00	12	7.0 to 13.2	0.47	5.64	6800	2.214	78.17	19.80	0.780	52.8
QFR0812GHE	-R00/-F00	12	7.0 to 13.2	0.72	8.64	7500	2.445	86.36	23.76	0.935	55.4
QFR0812UHE	-R00/-F00	12	7.0 to 13.2	1.15	13.80	9000	2.979	105.21	33.91	1.335	60.0

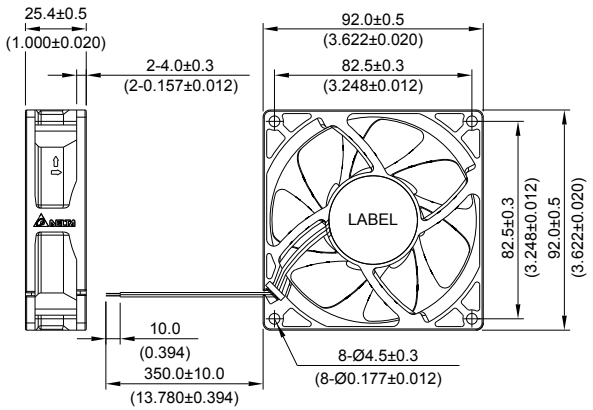
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

QFR 92 x 92 x 25.4 MM SERIES

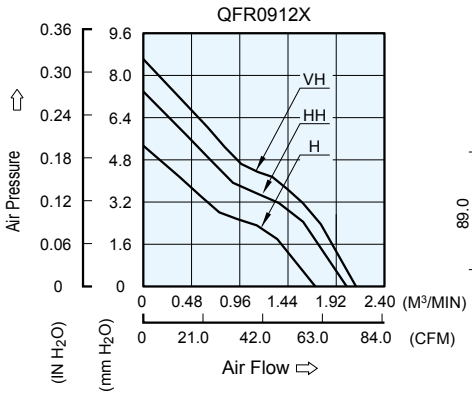


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 110g (3.880 oz)

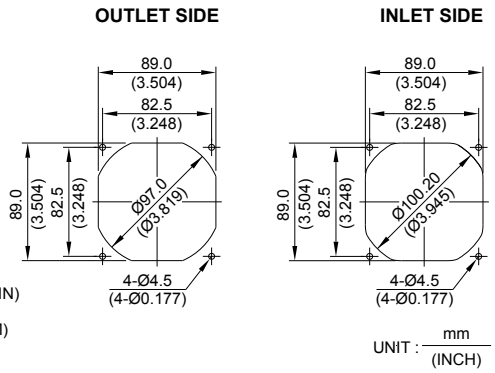
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
QFR0912H	-R00 / -F00	12	5.0 to 13.2	0.22	2.64	3200	1.712	60.47	5.34	0.210	37.0
QFR0912HH	-R00 / -F00	12	5.0 to 13.2	0.31	3.72	3800	2.024	71.49	7.39	0.291	42.2
QFR0912VH	-R00 / -F00	12	10.8 to 13.2	0.40	4.80	4200	2.117	74.78	8.62	0.339	45.0

* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

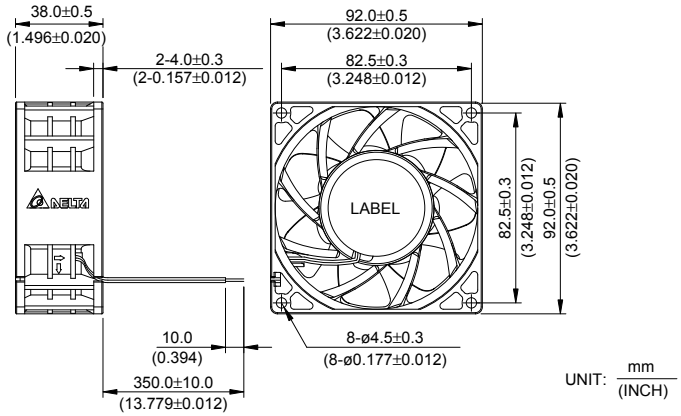
QFR 92 x 92 x 38 MM SERIES

New

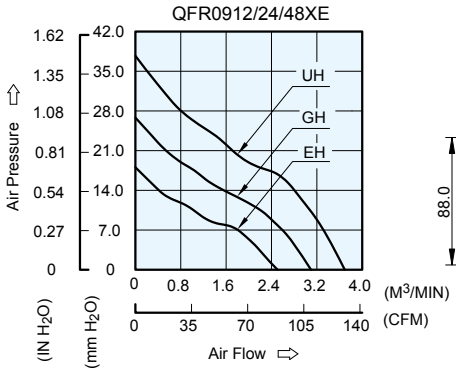


* Bearing Type
  Ball Bearings
* Material
  Impeller & Pillow : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 195g (6.88 oz)

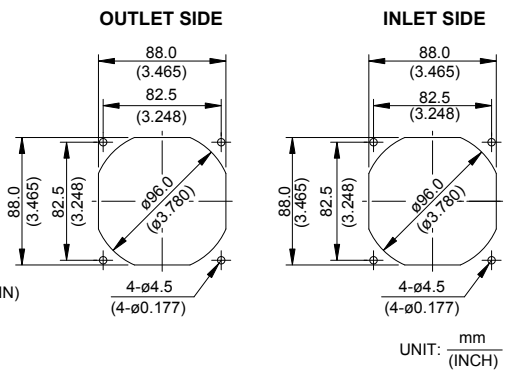
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
QFR0912EHE	-R00/-F00	12	8.0 to 13.2	0.60	7.20	5700	2.507	88.53	18.06	0.711	51.7
QFR0924EHE	-R00/-F00	24	16.0 to 26.4	0.30	7.20						
QFR0948EHE	-R00/-F00	48	33.0 to 52.8	0.15	7.20						
QFR0912GHE	-R00/-F00	12	8.0 to 13.2	0.95	11.40	7000	3.097	109.38	26.82	1.056	57.0
QFR0924GHE	-R00/-F00	24	16.0 to 26.4	0.50	12.00						
QFR0948GHE	-R00/-F00	48	33.0 to 52.8	0.25	12.00						
QFR0912UHE	-R00/-F00	12	8.0 to 13.2	1.60	19.20	8300	3.731	131.76	37.35	1.466	62.0
QFR0924UHE	-R00/-F00	24	16.0 to 26.4	0.80	19.20						
QFR0948UHE	-R00/-F00	48	33.0 to 52.8	0.40	19.20						

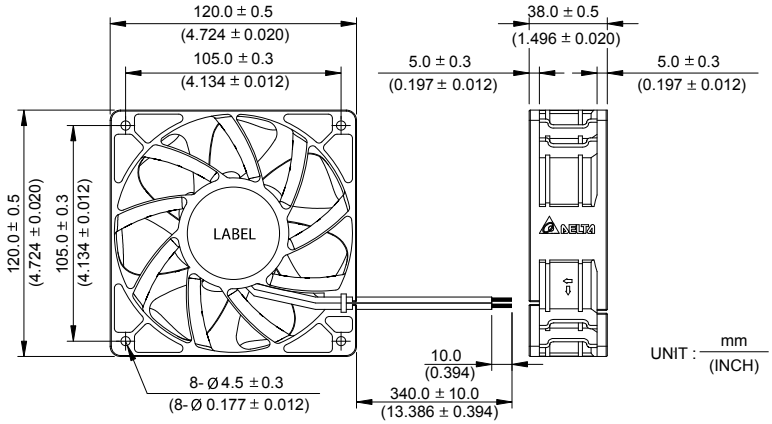
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

QFR 120 x 120 x 38 MM SERIES

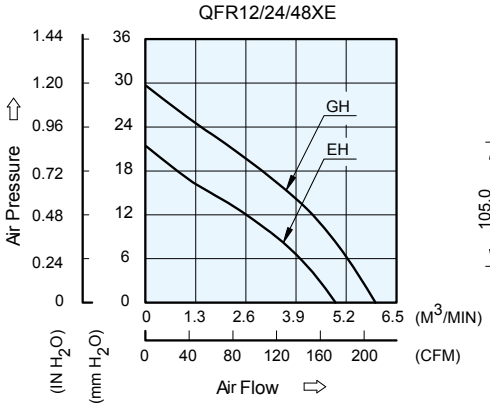


* Bearing Type
  Ball Bearings
* Material
  Impeller & Pillow : Plastic (UL 94V-0)
* Lead Wires :
  UL 1430 AWG #22 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 330g (11.64 oz)

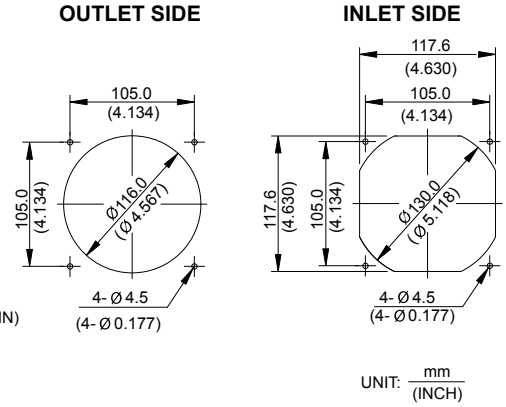
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



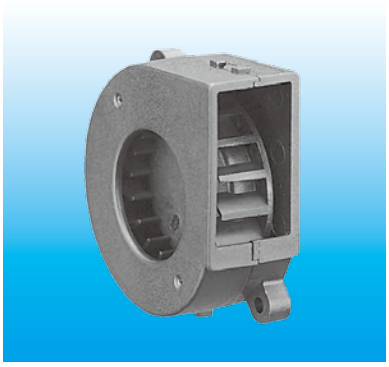
■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
QFR1212EHE	-R00/-F00	12	8.0 to 13.2	1.00	12.00	5000	4.922	173.83	21.43	0.844	59.0
QFR1224EHE	-R00/-F00	24	16.0 to 26.4	0.50	12.00						
QFR1248EHE	-R00/-F00	48	33.0 to 52.8	0.26	12.48						
QFR1212GHE	-R00/-F00	12	8.0 to 13.2	1.80	21.60	6000	5.957	210.38	29.18	1.170	64.0
QFR1224GHE	-R00/-F00	24	16.0 to 26.4	0.94	22.56						
QFR1248GHE	-R00/-F00	48	33.0 to 52.8	0.50	24.00						

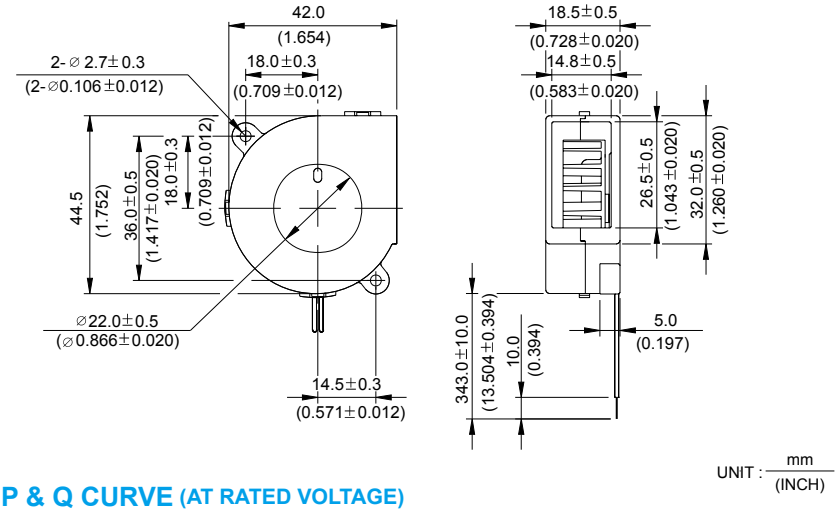
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 42 x 45 x 19 MM SERIES

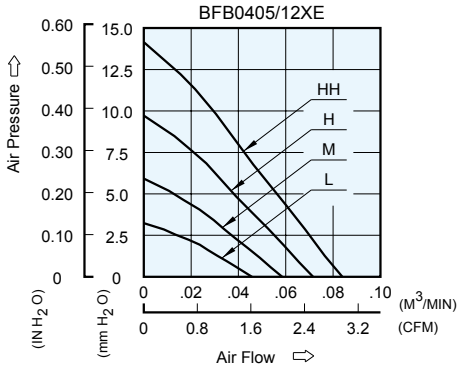


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #26 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 22g (0.78 oz)

■ DIMENSIONS DRAWING



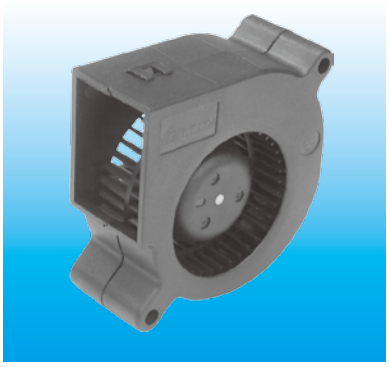
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB0405LE	-R00 / -F00	5	4.0 to 5.5	0.06	0.30	3500	0.046	1.62	3.23	0.127	26.0
BFB0412LE	-R00 / -F00	12	10.0 to 13.8	0.04	0.48						
BFB0405ME	-R00 / -F00	5	4.0 to 5.5	0.13	0.65	4500	0.059	2.08	5.92	0.233	30.0
BFB0412ME	-R00 / -F00	12	10.0 to 13.8	0.05	0.60						
BFB0405HE	-R00 / -F00	5	4.0 to 5.5	0.22	1.10	5500	0.072	2.54	9.72	0.383	35.5
BFB0412HE	-R00 / -F00	12	10.0 to 13.8	0.07	0.84						
BFB0412HHE	-R00 / -F00	12	10.0 to 13.8	0.11	1.32	6500	0.084	2.97	14.15	0.557	39.5

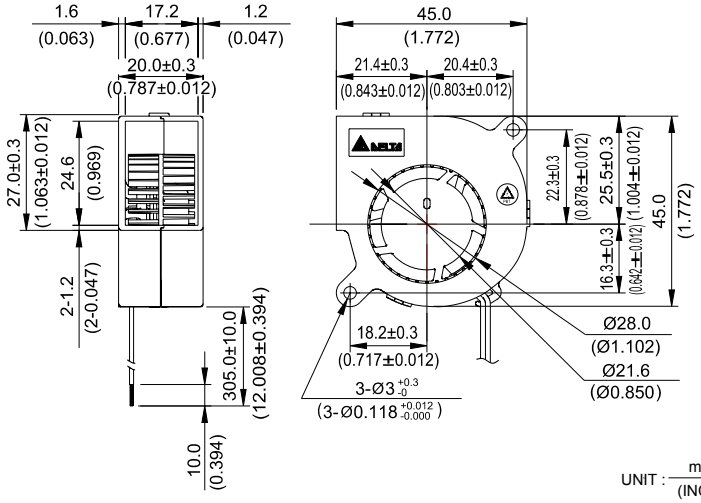
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 45 x 45 x 20 MM SERIES



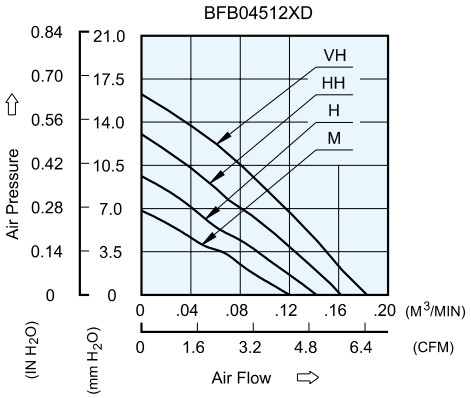
* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1571 AWG #28 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 17g (0.60 oz)

■ DIMENSIONS DRAWING



UNIT : mm / (INCH)

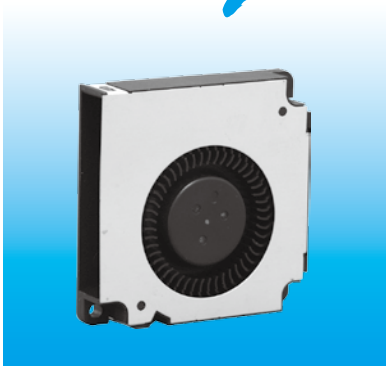
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB04512MD	-R00 / -F00	12	5.0 to 13.8	0.07	0.84	3300	0.120	4.24	6.83	0.269	21.0
BFB04512HD	-R00 / -F00	12	5.0 to 13.8	0.10	1.20	3800	0.139	4.91	9.29	0.366	24.5
BFB04512HHD	-R00 / -F00	12	5.0 to 13.8	0.13	1.56	4200	0.161	5.68	12.95	0.510	28.0
BFB04512VHD	-R00 / -F00	12	5.0 to 13.8	0.15	1.80	4500	0.170	6.01	14.15	0.557	30.5

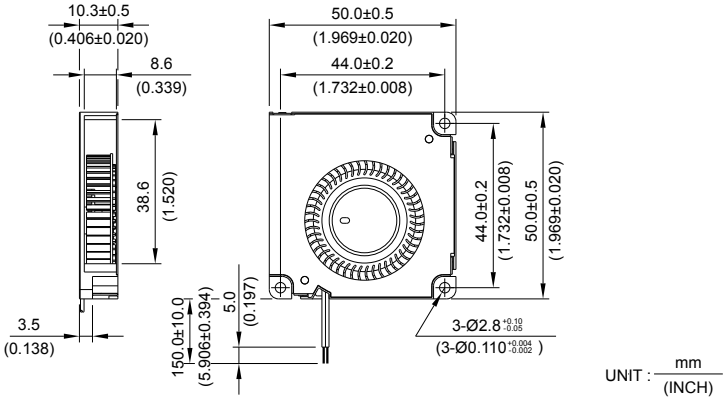
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 50 x 50 x 10 MM SERIES

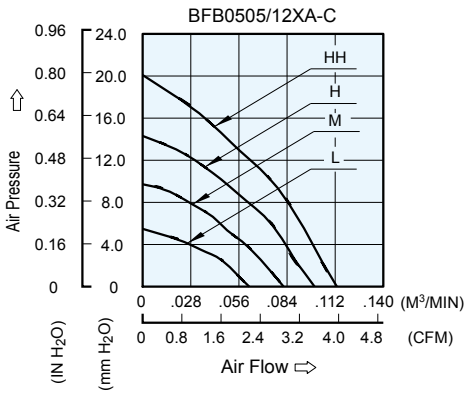


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1571 AWG #28 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 22.5g (0.79 oz)

■ DIMENSIONS DRAWING



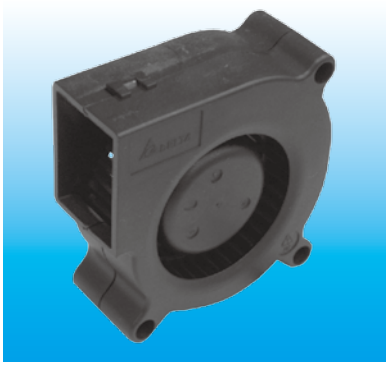
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB0505LA	-C	-R00 / -F00	5	3.5 to 5.5	0.06	0.30	3500	0.062	2.18	5.48	0.208	22.5
BFB0512LA	-C	-R00 / -F00	12	7.0 to 13.2	0.05	0.60						
BFB0505MA	-C	-R00 / -F00	5	3.5 to 5.5	0.10	0.50	4300	0.082	2.89	9.72	0.383	28.0
BFB0512MA	-C	-R00 / -F00	12	7.0 to 13.2	0.07	0.84						
BFB0505HA	-C	-R00 / -F00	5	3.0 to 5.5	0.18	0.90	5100	0.100	3.53	14.31	0.563	32.5
BFB0512HA	-C	-R00 / -F00	12	5.0 to 13.2	0.12	1.44						
BFB0505HHA	-C	-R00 / -F00	5	3.0 to 5.5	0.26	1.30	5900	0.113	3.98	20.09	0.790	37.5
BFB0512HHA	-C	-R00 / -F00	12	5.0 to 13.2	0.16	1.92						

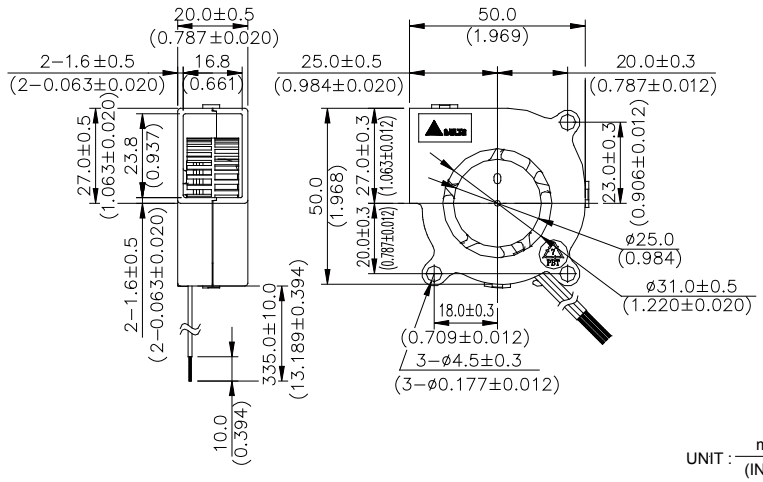
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 50 x 50 x 20 MM SERIES



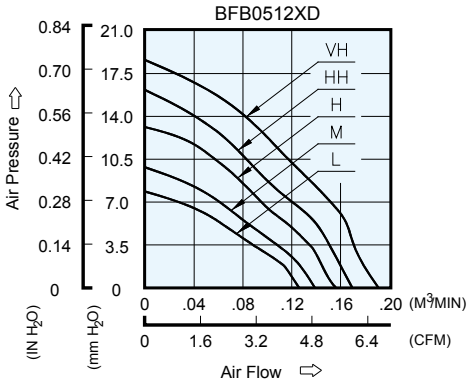
* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #26 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 35g (1.23 oz)

■ DIMENSIONS DRAWING



UNIT : mm / (INCH)

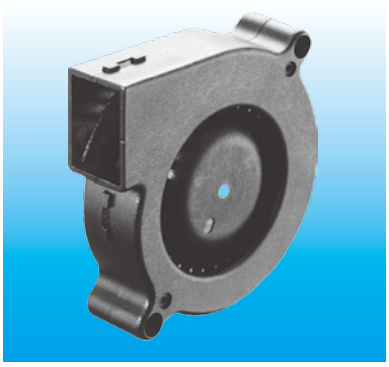
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB0512LD	-R00 / -F00	12	5.0 to 13.8	0.12	1.44	3700	0.126	4.45	7.85	0.309	28.0
BFB0512MD	-R00 / -F00	12	5.0 to 13.8	0.13	1.56	4100	0.139	4.91	9.82	0.387	31.0
BFB0512HD	-R00 / -F00	12	5.0 to 13.8	0.14	1.68	4500	0.156	5.51	13.12	0.517	33.8
BFB0512HHD	-R00 / -F00	12	5.0 to 13.8	0.16	1.92	4900	0.165	5.83	16.15	0.636	36.5
BFB0512VHD	-R00 / -F00	12	5.0 to 13.8	0.23	2.76	5300	0.191	6.75	18.60	0.732	38.5

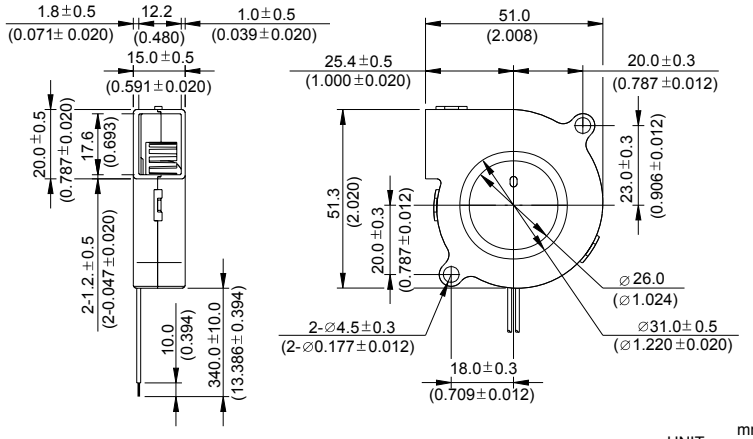
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 51 x 51 x 15 MM SERIES



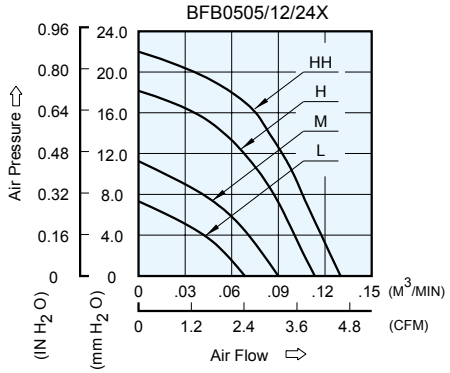
* Bearing Type
  Ball Bearings
* Material
  Impeller & Pillow : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #26 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 28g (0.99 oz)

■ DIMENSIONS DRAWING



UNIT : mm / (INCH)

■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
BFB0505L	-R00/-F00	5	4.0 to 5.5	0.14	0.70	3500	0.070	2.47	7.00	0.276	26.5
BFB0512L	-R00/-F00	12	10.0 to 13.8	0.07	0.84						
BFB0524L	-R00/-F00	24	14.0 to 27.6	0.05	1.20						
BFB0505M	-R00/-F00	5	4.0 to 5.5	0.33	1.65	4500	0.090	3.18	11.00	0.433	32.5
BFB0512M	-R00/-F00	12	10.0 to 13.8	0.10	1.20						
BFB0524M	-R00/-F00	24	14.0 to 27.6	0.07	1.68						
BFB0512H	-R00/-F00	12	10.0 to 13.8	0.16	1.92	5500	0.110	3.88	18.00	0.709	38.0
BFB0524H	-R00/-F00	24	14.0 to 27.6	0.09	2.16						
BFB0512HH	-R00/-F00	12	10.0 to 13.8	0.21	2.52	6500	0.130	4.59	22.00	0.866	45.0
BFB0524HH	-R00/-F00	24	14.0 to 27.6	0.11	2.64						

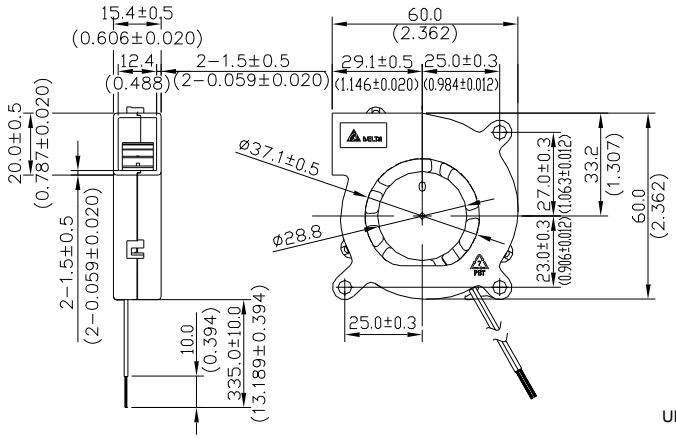
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 60 x 60 x 15 MM SERIES

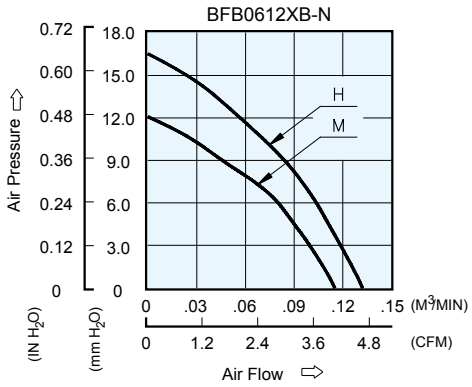


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1430 AWG #26 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 45g (1.59 oz)

■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB0612MB	-N	-R00 / -F00	12	5.5 to 13.8	0.15	1.80	4200	0.114	4.04	12.08	0.476	32.0
BFB0612HB	-N	-R00 / -F00	12	5.5 to 13.8	0.18	2.16	4800	0.132	4.67	16.53	0.651	37.0

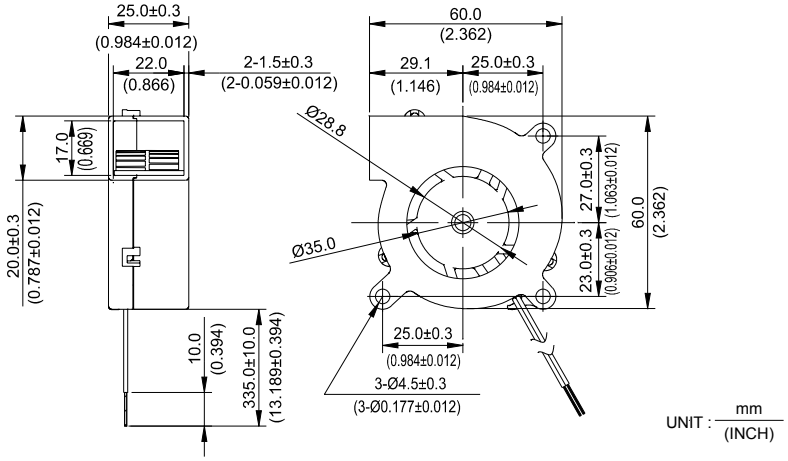
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 60 x 60 x 25 MM SERIES

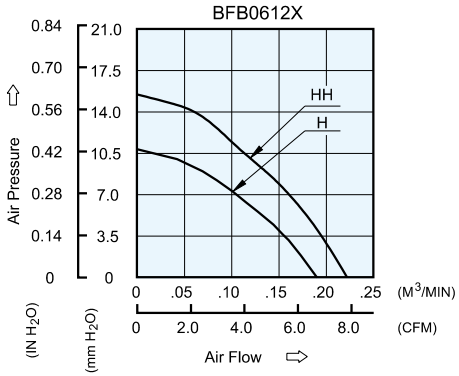


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1430 AWG #26 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 51.0g (1.80 oz)

■ DIMENSIONS DRAWING



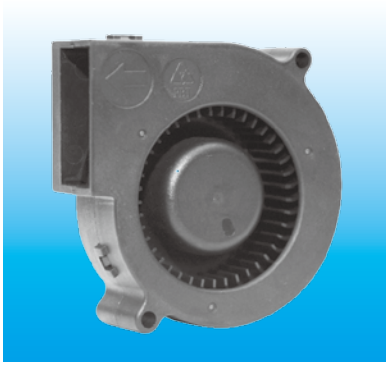
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB0612H	-R00 / -F00	12	5.0 to 13.8	0.18	2.16	3200	0.190	6.71	10.86	0.428	34.0
BFB0612HH	-R00 / -F00	12	5.0 to 13.8	0.24	2.88	3700	0.223	7.88	15.49	0.610	39.0

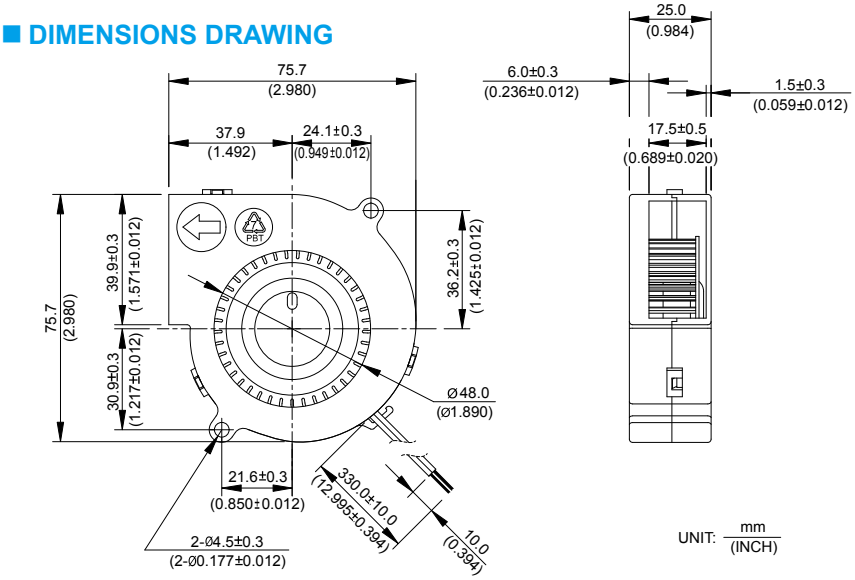
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 75 x 75 x 25 MM SERIES

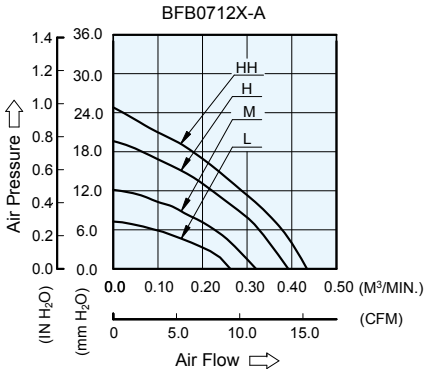


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 90.0g (3.17 oz)

■ DIMENSIONS DRAWING



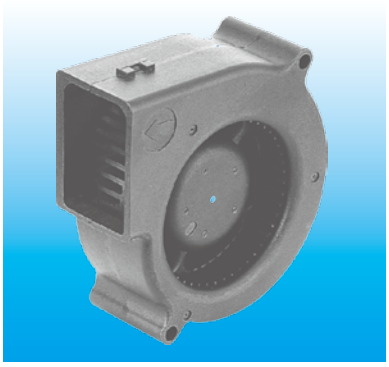
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB0712L	-A	-F00	12	7.0 to 13.8	0.10	1.20	2800	0.262	9.26	7.26	0.286	39.0
BFB0712M	-A	-F00	12	7.0 to 13.8	0.16	1.92	3400	0.320	11.31	12.14	0.478	43.0
BFB0712H	-A	-F00	12	7.0 to 13.8	0.27	3.24	4000	0.392	13.84	19.64	0.773	48.0
BFB0712HH	-A	F00	12	5.5 to 13.8	0.34	4.08	4400	0.434	15.33	24.82	0.977	51.0

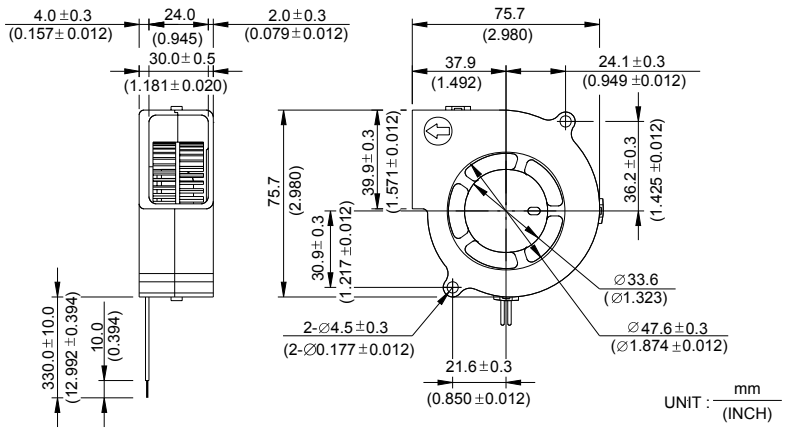
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 75 x 75 x 30 MM SERIES

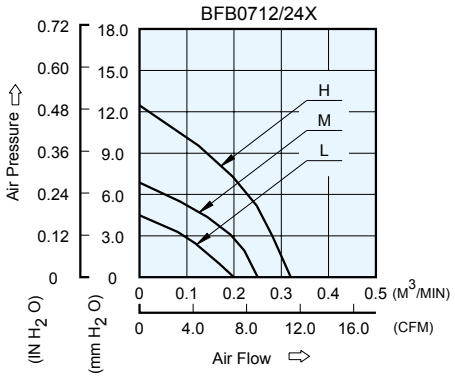


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 95g (3.35 oz)

■ DIMENSIONS DRAWING



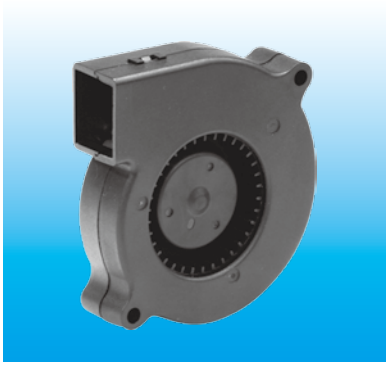
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
BFB0712L	-R00 / -F00	12	7.0 to 13.8	0.06	0.72	1900	0.198	7.00	4.00	0.157	26.0
BFB0724L	-R00 / -F00	24	14.0 to 27.6	0.05	1.20						
BFB0712M	-R00 / -F00	12	7.0 to 13.8	0.13	1.56	2350	0.255	9.00	6.80	0.268	32.0
BFB0724M	-R00 / -F00	24	14.0 to 27.6	0.07	1.68						
BFB0712H	-R00 / -F00	12	7.0 to 13.8	0.22	2.64	2900	0.320	11.30	12.20	0.480	38.0
BFB0724H	-R00 / -F00	24	14.0 to 27.6	0.12	2.88						

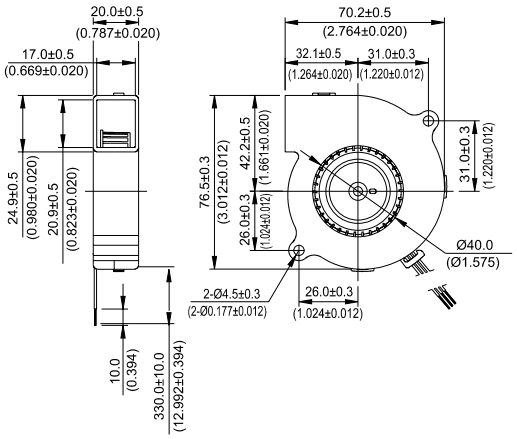
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 76 x 70 x 20 MM SERIES



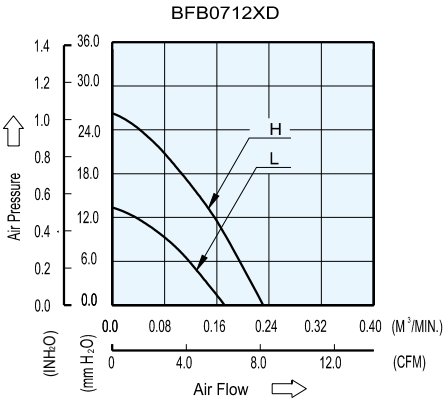
* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 58g (2.05 oz)

■ DIMENSIONS DRAWING



UNIT : mm / (INCH)

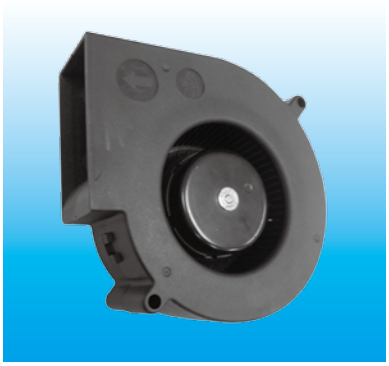
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB0712LD	-R00 / -F00	12	7.0 to 13.8	0.13	1.56	2800	0.172	6.07	13.36	0.562	32.5
BFB0712HD	-R00 / -F00	12	7.0 to 13.8	0.31	3.72	4000	0.231	8.52	26.27	1.034	42.0

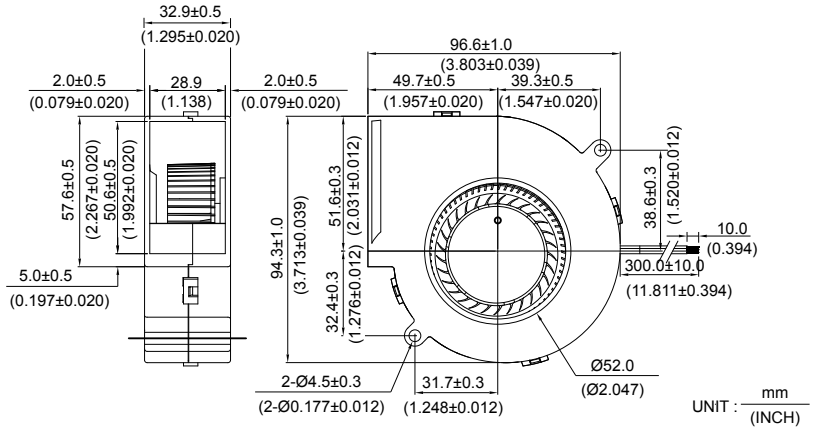
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 97 x 94 x 33 MM SERIES

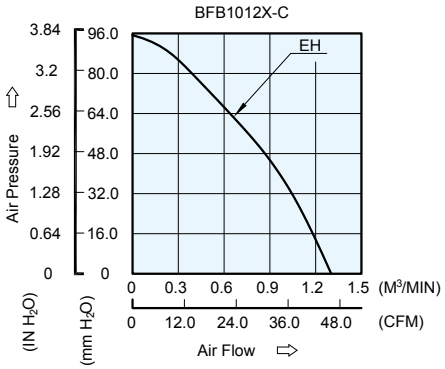


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 180g (6.35 oz)

■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB1012EH	-C	-R00/-F00	12	7.0 to 12.6	1.97	23.64	5800	1.288	45.49	93.83	3.694	62.0

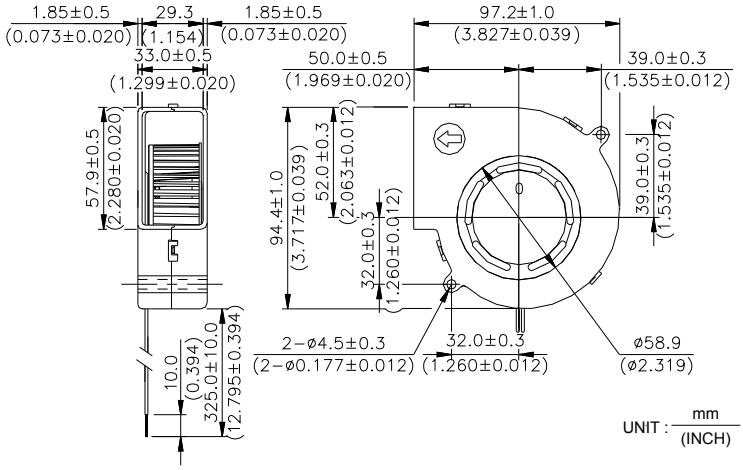
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 97 x 94 x 33 MM SERIES

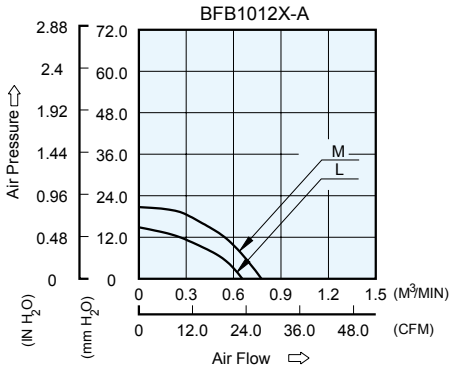


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 166g (5.85 oz)

■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB1012L	-A	R00/F00	12	4.0 to 13.2	0.37	4.44	2700	0.656	23.17	14.85	0.585	49.5
BFB1012M	-A	R00/F00	12	4.0 to 13.2	0.55	6.60	3200	0.777	27.44	22.68	0.893	52.5

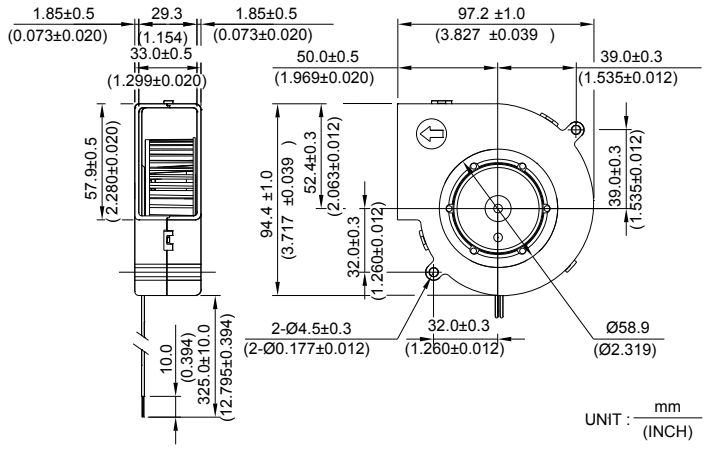
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 97 x 94 x 33 MM SERIES

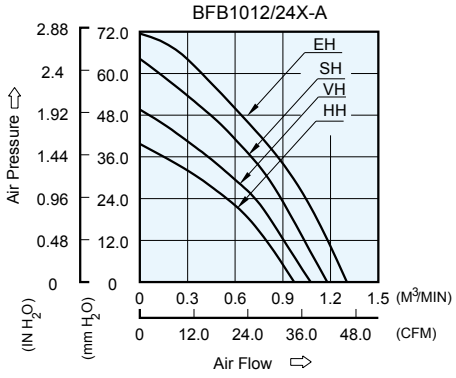


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 180g (6.35 oz)

■ DIMENSIONS DRAWING



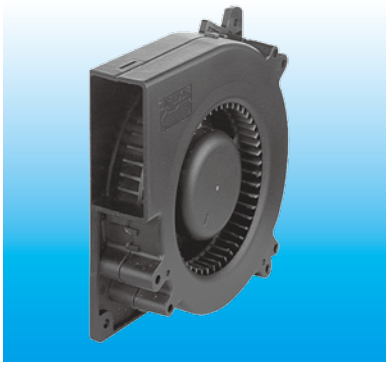
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB1012HH	-A	R00/F00	12	7.0 to 13.2	1.25	15.00	4000	0.971	34.28	39.70	1.564	57.0
BFB1012VH	-A	R00/F00	12	7.0 to 13.2	1.50	18.00	4500	1.075	37.97	49.58	1.952	60.0
BFB1012SH	-A	R00/F00	12	7.0 to 12.6	2.00	24.00	5000	1.179	41.65	64.23	2.529	63.0
BFB1012EH	-A	R00/F00	12	7.0 to 12.6	2.45	29.40	5300	1.302	46.00	71.48	2.814	64.0

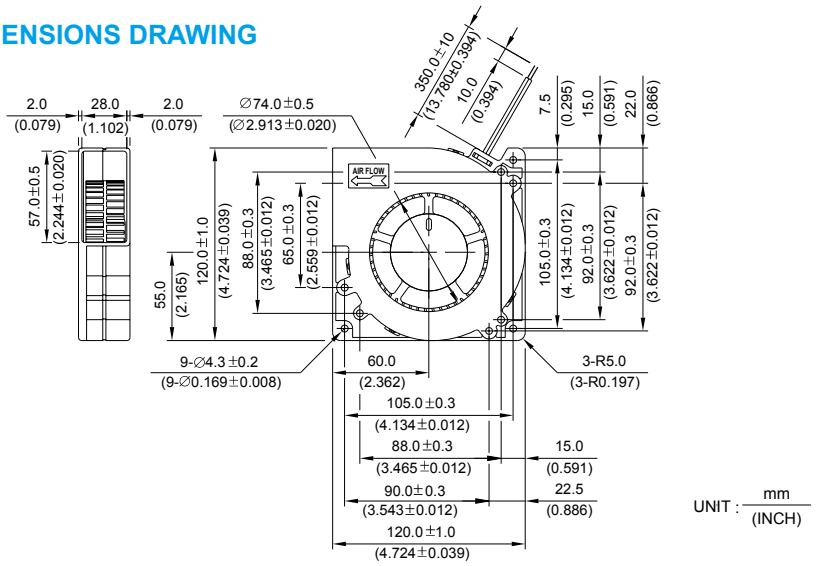
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 120 x 120 x 32 MM SERIES

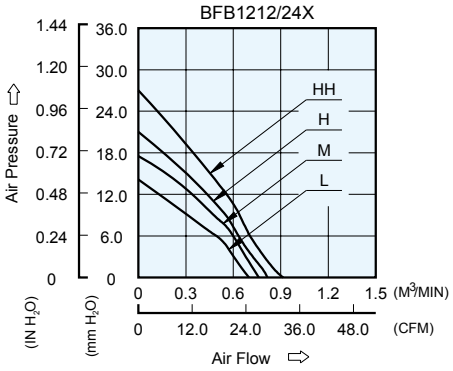


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 230g (8.11 oz)

■ DIMENSIONS DRAWING



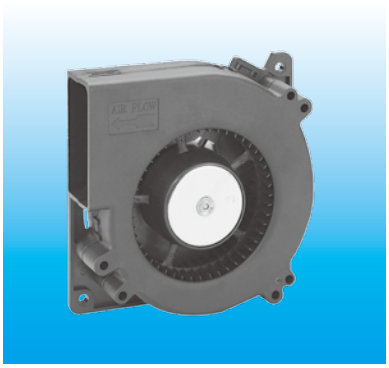
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
BFB1212L	-R00 / -F00	12	4.0 to 13.8	0.40	4.80	2100	0.699	24.70	14.00	0.551	47.0
BFB1224L	-R00 / -F00	24	7.0 to 27.6	0.24	5.76						
BFB1212M	-R00 / -F00	12	4.0 to 13.8	0.58	6.96	2300	0.760	26.85	17.50	0.689	48.5
BFB1224M	-R00 / -F00	24	7.0 to 27.6	0.28	6.72						
BFB1212H	-R00 / -F00	12	4.0 to 13.8	0.82	9.84	2500	0.821	29.00	21.00	0.827	51.0
BFB1224H	-R00 / -F00	24	7.0 to 27.6	0.35	8.40						
BFB1212HH	-R00 / -F00	12	4.0 to 13.8	1.10	13.20	2800	0.920	32.49	27.00	1.063	54.0

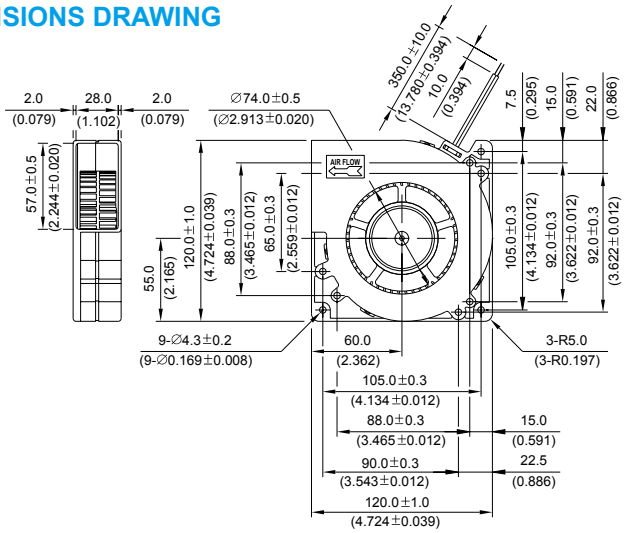
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 120 x 120 x 32 MM SERIES



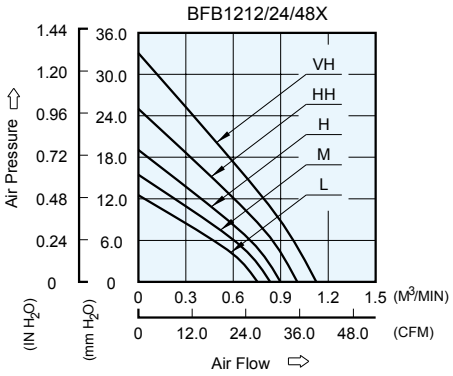
* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 230g (8.11 oz)

■ DIMENSIONS DRAWING



UNIT : mm / (INCH)

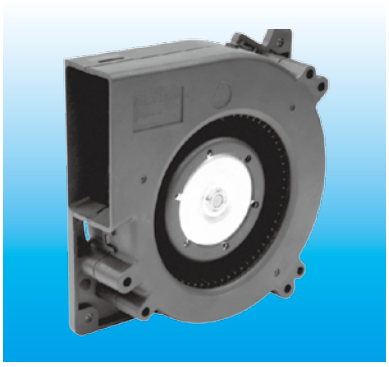
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB1248L	-R00 / -F00	48	28.0 to 56.0	0.09	4.32	2100	0.750	26.49	12.50	0.492	47.0
BFB1248M	-R00 / -F00	48	28.0 to 56.0	0.12	5.76	2300	0.830	29.31	15.50	0.610	48.5
BFB1248H	-R00 / -F00	48	28.0 to 56.0	0.15	7.20	2500	0.890	31.43	19.00	0.748	51.0
BFB1224HH	-R00 / -F00	24	7.0 to 27.6	0.54	12.96	2800	1.000	35.31	25.00	0.984	54.0
BFB1248HH	-R00 / -F00	48	28.0 to 56.0	0.22	10.56						
BFB1212VH	-R00 / -F00	12	4.0 to 13.8	1.25	15.00	3100	1.120	39.55	33.00	1.299	56.5
BFB1224VH	-R00 / -F00	24	7.0 to 27.6	0.60	14.40						

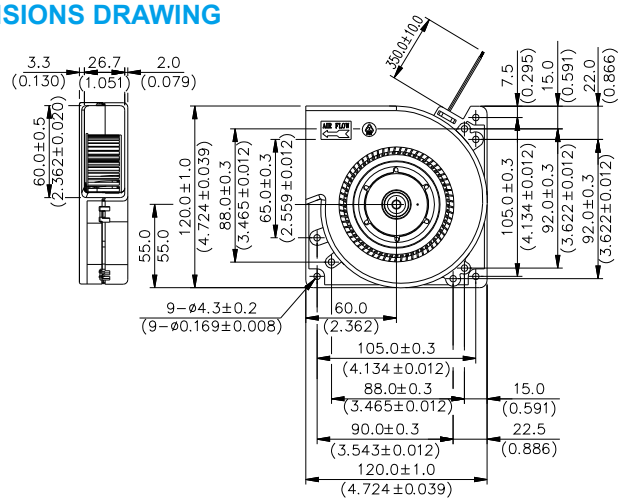
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 120 x 120 x 32 MM SERIES



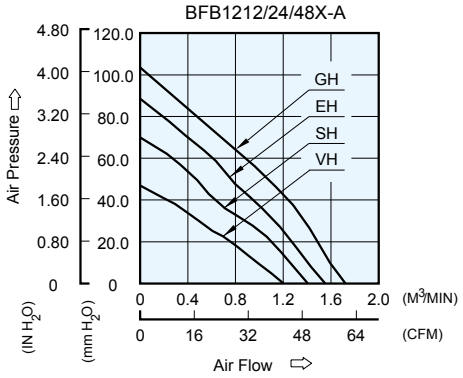
* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1430 AWG #22 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 295.0g (10.40 oz)

■ DIMENSIONS DRAWING



UNIT : mm / (INCH)

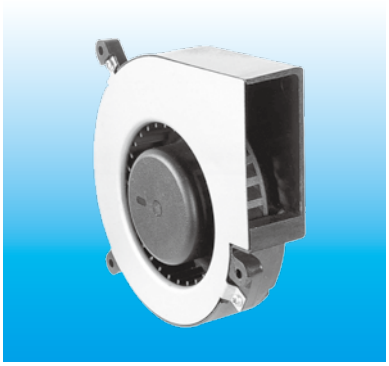
■ P & Q CURVE (AT RATED VOLTAGE)



MODEL			Rated Voltage	Operating Voltage Range	Input Current	Input Power	S peed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB1212VH	-A	R00 / F00	12	5.5 to 13.8	1.47	17.64	3100	1.203	42.47	46.94	1.848	57.0
BFB1224VH	-A	R00 / F00	24	14.0 to 27.6	0.70	16.80						
BFB1248VH	-A	R00 / F00	48	24.0 to 56.0	0.37	17.39						
BFB1212SH	-A	R00 / F00	12	5.5 to 13.0	1.75	21.00	3600	1.406	49.67	69.95	2.754	59.5
BFB1224SH	-A	R00 / F00	24	14.0 to 27.6	0.90	21.60						
BFB1248SH	-A	R00 / F00	48	24.0 to 56.0	0.49	23.52						
BFB1212EH	-A	R00 / F00	12	5.5 to 13.0	2.37	28.44	4000	1.553	54.85	88.51	3.485	62.0
BFB1224EH	-A	R00 / F00	24	14.0 to 27.6	1.12	26.88						
BFB1248EH	-A	R00 / F00	48	24.0 to 56.0	0.61	29.28						
BFB1212GH	-A	R00 / F00	12	5.5 to 13.2	3.30	39.60	4400	1.710	60.39	104.00	4.094	65.0
BFB1224GH	-A	R00 / F00	24	14.0 to 27.6	1.60	38.40						
BFB1248GH	-A	R00 / F00	48	24.0 to 53.0	0.80	38.40						

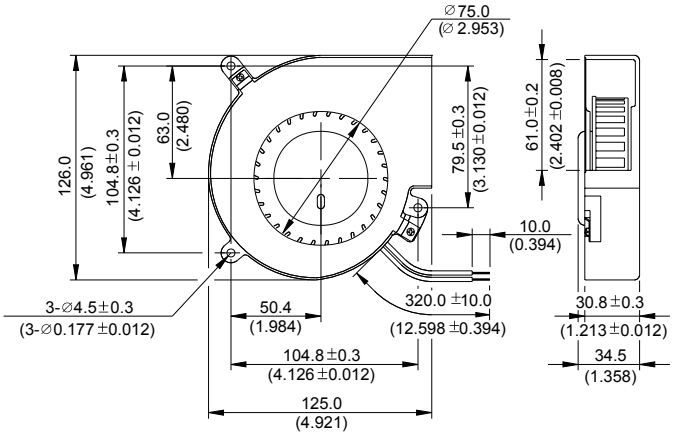
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 125 x 126 x 34 MM SERIES



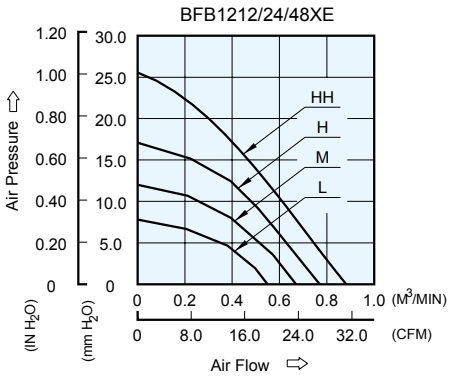
* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic (UL 94V-0)
  Frame: Plastic (UL 94V-0) & SECC
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 325g (11.46 oz)

■ DIMENSIONS DRAWING



UNIT : mm / (INCH)

■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB1212LE	-R00 / -F00	12	7.0 to 13.8	0.24	2.88	1700	0.550	19.42	7.77	0.306	42.0
BFB1224LE	-R00 / -F00	24	14.0 to 27.6	0.13	3.12						
BFB1248LE	-R00 / -F00	48	38.0 to 56.0	0.08	3.84						
BFB1212ME	-R00 / -F00	12	7.0 to 13.8	0.42	5.04	2000	0.670	23.66	12.00	0.472	46.0
BFB1224ME	-R00 / -F00	24	14.0 to 27.6	0.23	5.52						
BFB1248ME	-R00 / -F00	48	38.0 to 56.0	0.12	5.76						
BFB1212HE	-R00 / -F00	12	7.0 to 13.8	0.68	8.16	2300	0.770	27.19	17.80	0.701	51.5
BFB1224HE	-R00 / -F00	24	14.0 to 27.6	0.34	8.16						
BFB1248HE	-R00 / -F00	48	38.0 to 56.0	0.17	8.16						
BFB1212HHE	-R00 / -F00	12	7.0 to 13.8	1.06	12.70	2650	0.870	30.72	25.20	0.992	55.0
BFB1224HHE	-R00 / -F00	24	14.0 to 27.6	0.60	14.40						

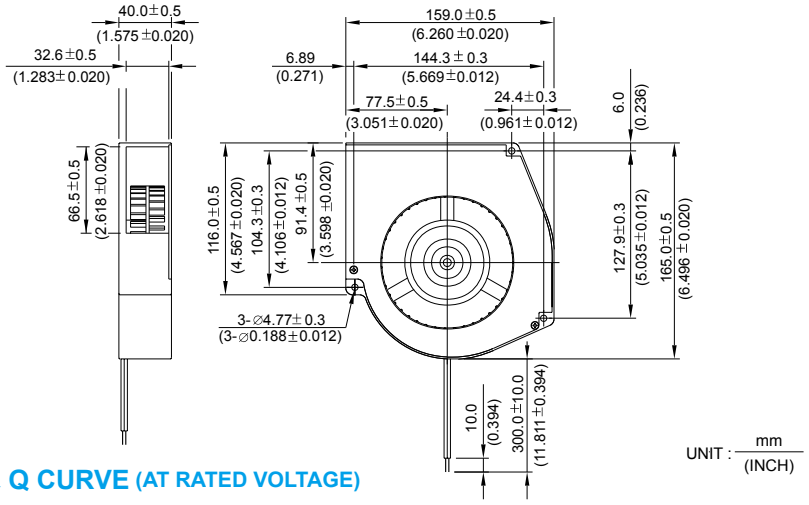
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

BFB 159 x 165 x 40 MM SERIES

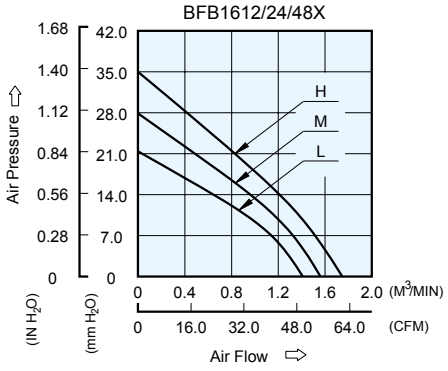


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
* Weight : 588g (20.74 oz)

■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
BFB1612L	-R00 / -F00	12	7.0 to 13.2	0.80	9.60	1800	1.410	49.79	21.50	0.846	51.5
BFB1624L	-R00 / -F00	24	14.0 to 26.4	0.40	9.60						
BFB1648L	-R00 / -F00	48	28.0 to 56.0	0.22	10.56						
BFB1612M	-R00 / -F00	12	7.0 to 13.2	1.10	13.20	2000	1.560	55.09	28.00	1.102	54.5
BFB1624M	-R00 / -F00	24	14.0 to 26.4	0.56	13.44						
BFB1648M	-R00 / -F00	48	28.0 to 56.0	0.28	13.44						
BFB1612H	-R00 / -F00	12	7.0 to 13.2	1.43	17.16	2200	1.750	61.80	35.00	1.378	56.5
BFB1624H	-R00 / -F00	24	14.0 to 26.4	0.74	17.16						

* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

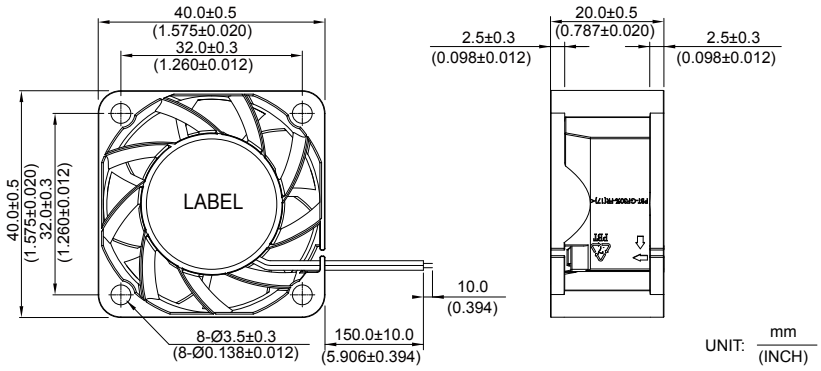
THA 40 x 40 x 20 MM SERIES

New

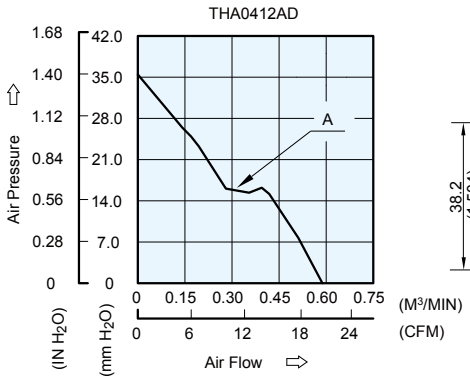


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic (UL 94V-0)
* Lead Wires :
  UL 1061 AWG #28 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight : 25g (0.88 oz)

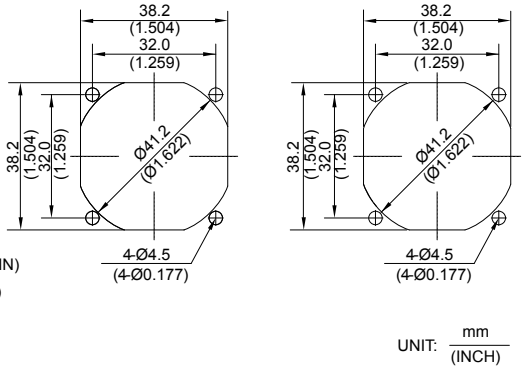
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
THA0412AD	PWM/-F00	12	7.0 to 15.0	0.43	5.16	15600	0.582	20.56	35.16	1.385	52.0

* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

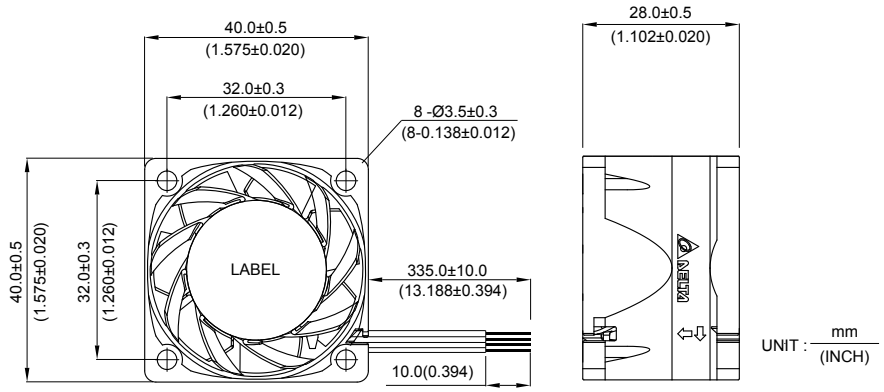
THA 40 x 40 x 28 MM SERIES

New

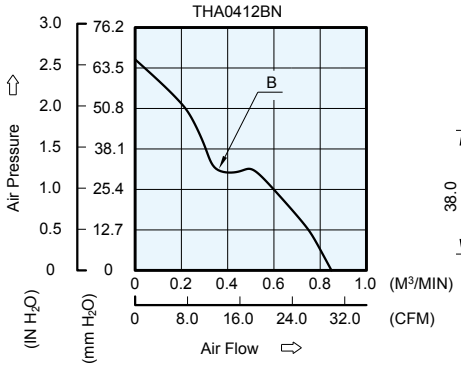


* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic (UL 94V-0)
  Frame : Die-cast Aluminum
* Lead Wires :
  UL 1061 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight : 75g (4.237 oz)

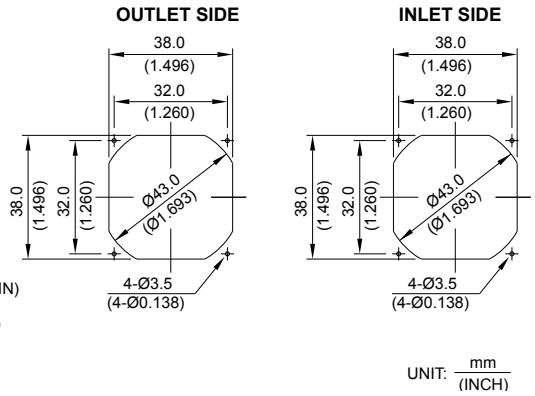
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
THA0412BN	PWM / -F00	12	7 to 13.2	0.89	10.68	19000	0.836	29.52	61.06	2.404	59.0

* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

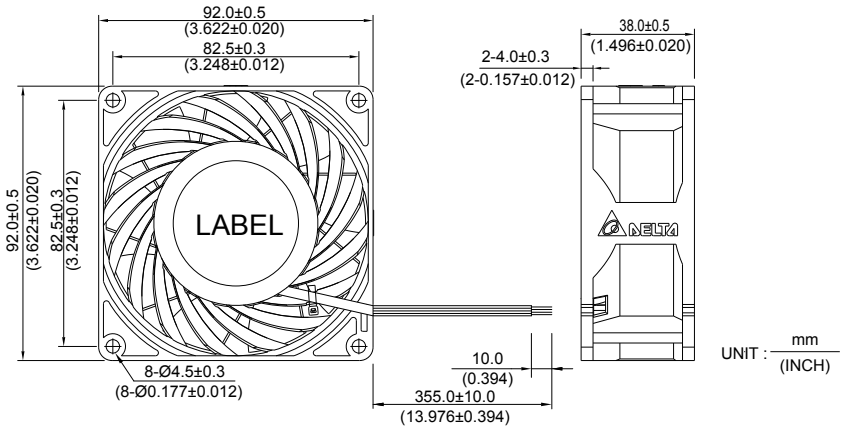
THA 92 x 92 x 38 MM SERIES

New

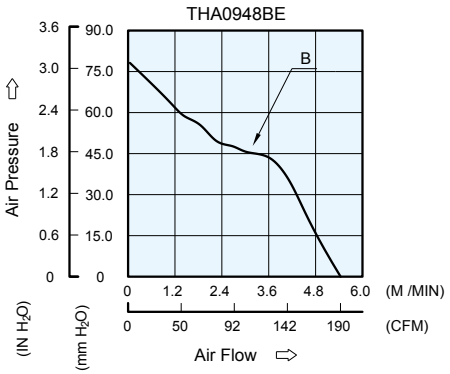


* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic (UL 94V-0)
  Frame : Die-cast Aluminum
* Lead Wires :
  UL 1061 AWG #22 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight : 300g (16.95 oz)

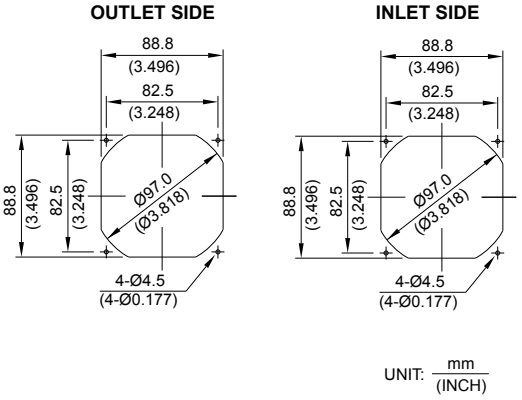
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
THA0948BE	PWM / -F00	48	30.0 to 60.0	1.40	67.20	9500	5.370	189.67	76.85	3.020	71.0

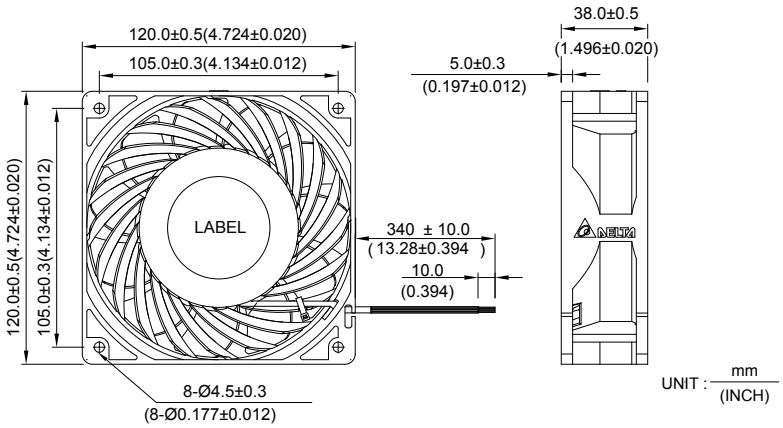
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

THA 120 x 120 x 38 MM SERIES

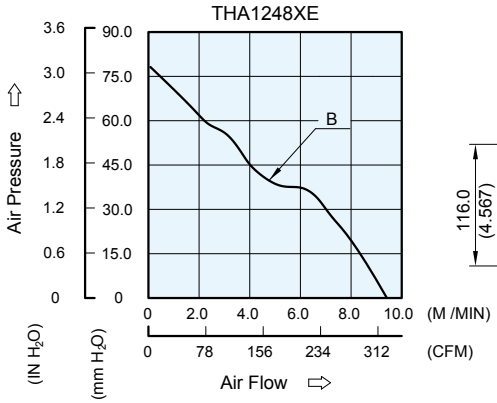


* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic (UL 94V-0)
  Frame : Die-cast Aluminum
* Lead Wires :
  UL 1007 AWG #24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight : 500g (28.25 oz)

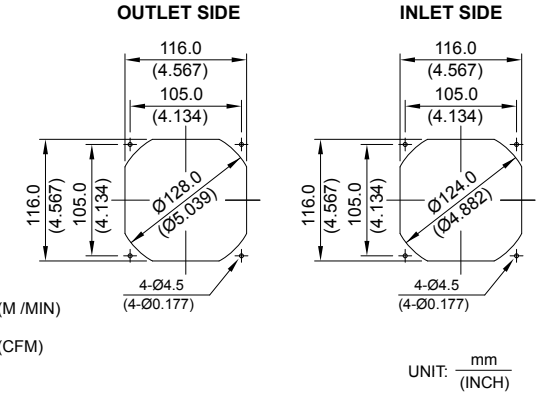
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
THA1248BE	PWM / -F00	48	36 to 60.0	2.07	99.3	7600	9.010	318.00	78.50	3.090	72.0

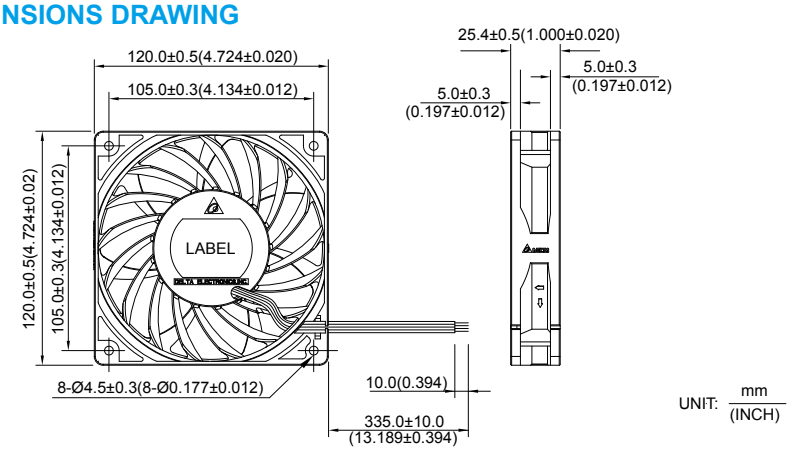
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

THB 120 x 120 x 25.4 MM SERIES

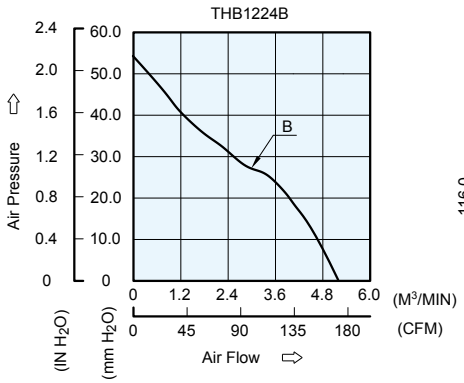


* Bearing Type
  Ball Bearings
* Material
  Impeller & Frame : Plastic(UL 94V-0)
* Lead Wires :
  UL1007 AWG#24 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight : 250g (8.82 oz)

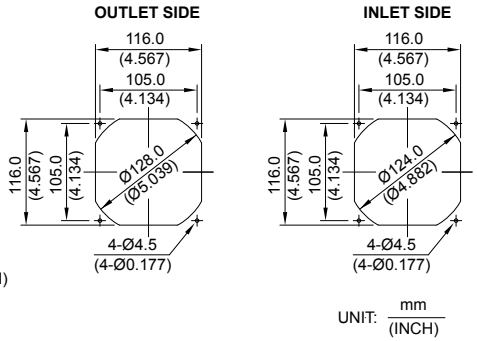
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
THB1224B	PWM/-F00	24	18.0 to 27.5	0.95	22.80	8300	4.940	174.53	54.33	2.130	65.0

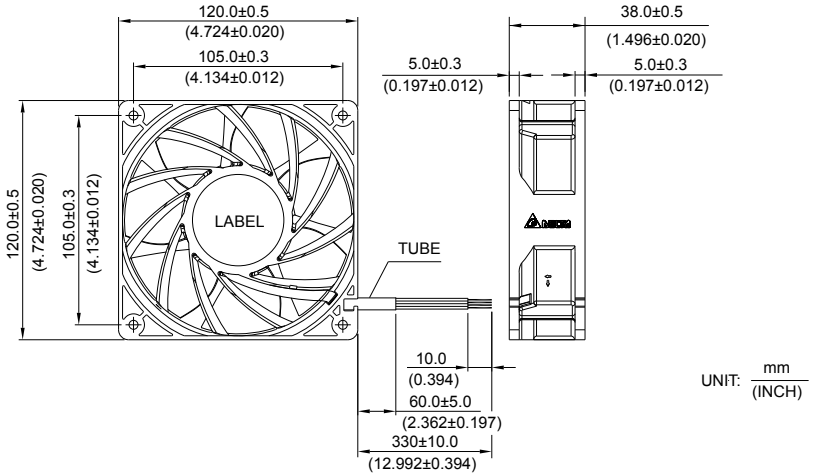
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

THB 120 x 120 x 38.0 MM SERIES

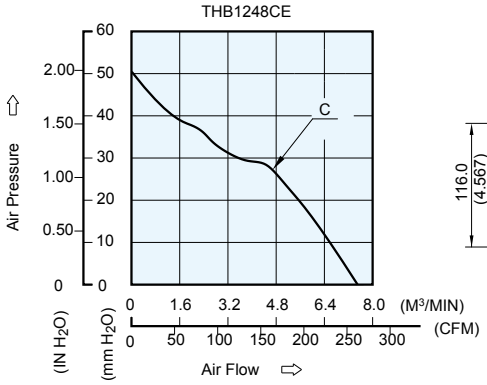


* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic(UL 94V-0)
  Frame : Die-Cast Aluminun
* Lead Wires :
  UL1007 AWG#24 OR Equivalent
  Black Wire Negative(-)
  Red Wire Positive(+)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight : 350g (12.356 oz)

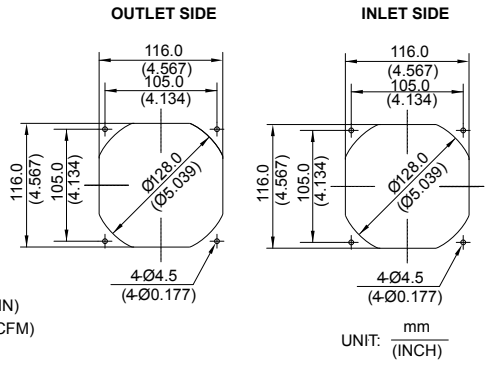
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
THB1248CE	PWM/-F00	48	36.0 to 60.0	0.95	45.60	7800	7.360	262.00	52.44	2.065	70.0

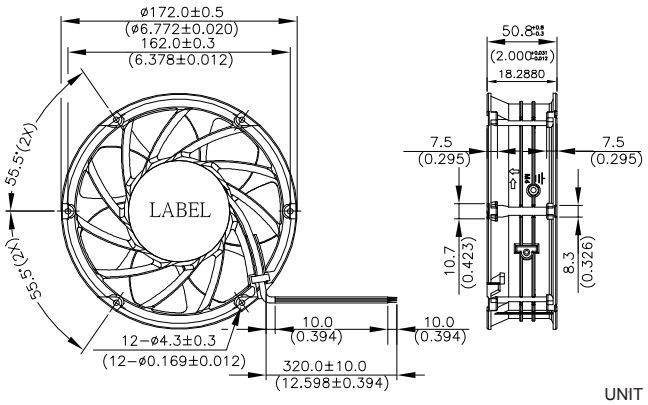
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

THB 172 x 172 x 50.8 MM SERIES



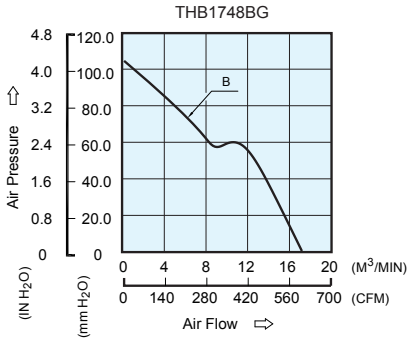
* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic (UL 94V-0)
  Frame : Die-cast Aluminum
* Lead Wires :
  UL 1430 AWG #22 OR Equivalent
  Red Wire Positive (+)
  Black Wire Negative (-)
  Blue Wire (F00)
  Yellow Wire (PWM)
* Weight : 920g (32.44 oz)

■ DIMENSIONS DRAWING

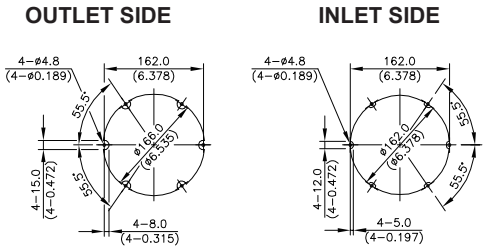


UNIT : mm / (INCH)

■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



UNIT: mm / (INCH)

MODEL		Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed (Front/Rear)	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
THB1748BG	PWM/F00	48	36.0 to 56.0	3.50	168.00	8000	17.170	607.07	105.05	4.140	75.0

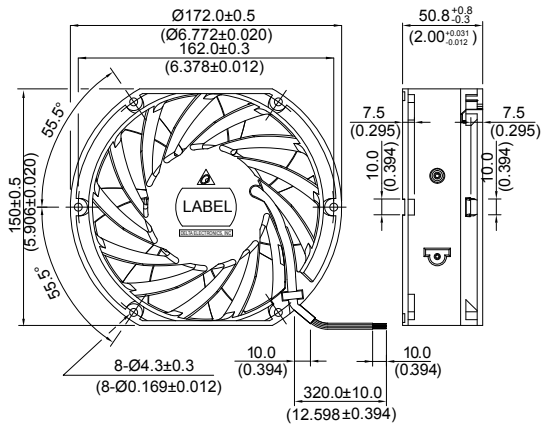
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

THB 172 x 150 x 50.8 MM SERIES



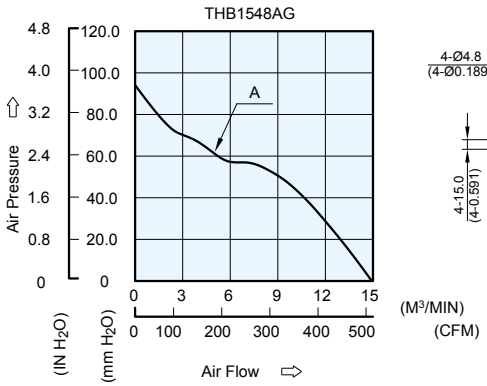
* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic(UL 94V-0)
  Frame : Die-Cast Aluminun
* Lead Wires :
  UL1007 AWG#24 OR Equivalent
  Black Wire Negative(-)
  Red Wire Positive(+)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight : 890g (31.39 oz)

■ DIMENSIONS DRAWING

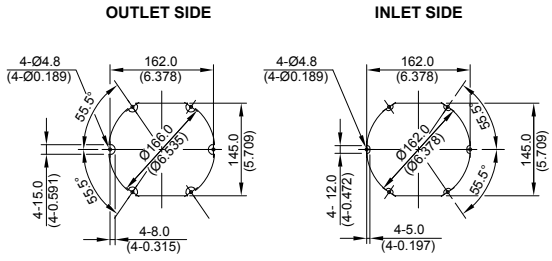


UNIT: mm (INCH)

■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



UNIT: mm (INCH)

MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
THB1548AG	PWM/-F00	48	30.0 to 60.0	3.00	144.00	7500	14.930	527.47	95.92	3.780	77.0

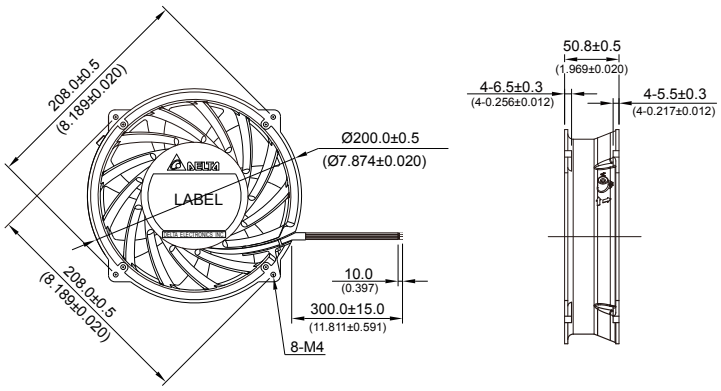
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

THB 200 x 200 x 50.8 MM SERIES

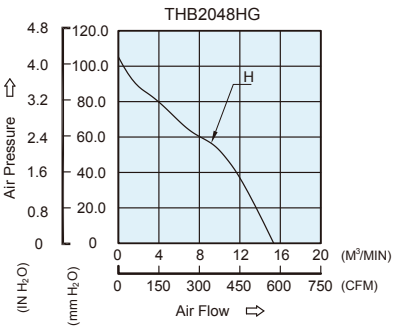


* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic(UL 94V-0)
  Frame : Die-cast Aluminum
* Lead Wires :
  UL 1430 AWG #18 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
  UL 1430 AWG #24 OR Equivalent
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight :
  1300g (45.83 OZ)

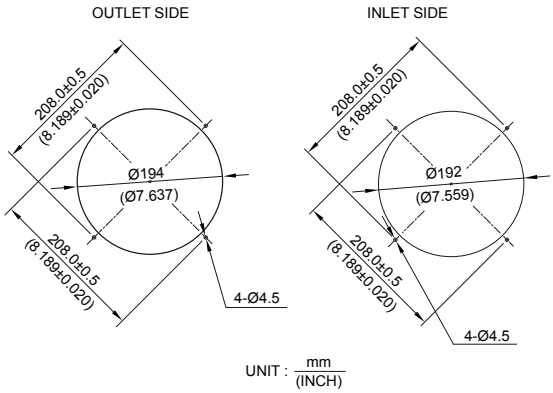
■ DIMENSIONS DRAWING



■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



MODEL			Rated Voltage	Operating Voltage Range	Rated Current	Rated Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	REV.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	$IN\ H_2O$	dB-A
THB2048HG	-A	PWM & F00	48	36.0 to 59.0	4.20	201.6	7700	19.583	690.3	105.18	4.141	78.0

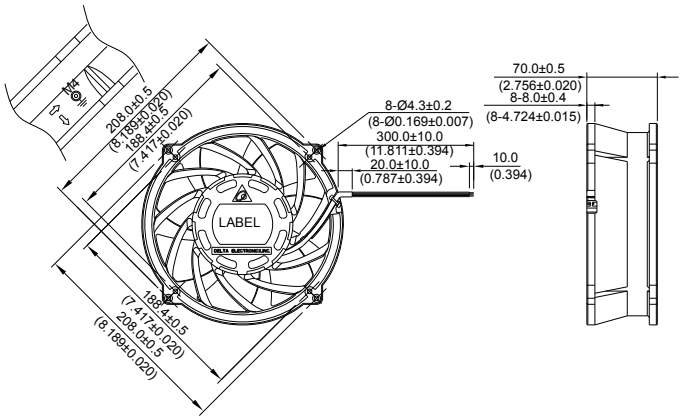
* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.

THB 200 x 200 x 70 MM SERIES



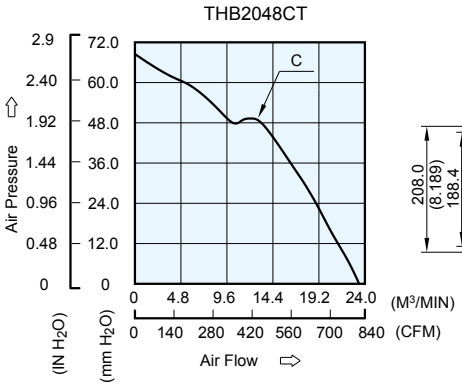
* Bearing Type
  Ball Bearings
* Material
  Impeller : Plastic (UL 94V-0)
  Frame: Die-cast Aluminum
* Lead Wires :
  UL 1430 AWG #20 OR Equivalent
  Red Wire Positive(+)
  Black Wire Negative(-)
  Blue Wire (F00)
  Yellow Wire Speed Control (PWM)
* Weight : 1600g (56.41 oz)

■ DIMENSIONS DRAWING

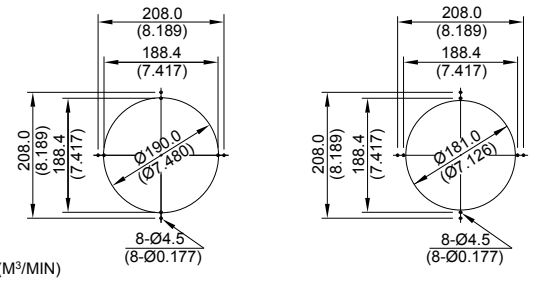


UNIT: mm (INCH)

■ P & Q CURVE (AT RATED VOLTAGE)



■ MOUNTING PANEL CUTOUT



UNIT: mm (INCH)

MODEL		Rated Voltage	Operating Voltage Range	Input Current	Input Power	Speed	Maximum Air Flow		Maximum Air Pressure		Noise
PART NO.	FUNCTION	VDC	VDC	Amp	Watt	R.P.M.	m^3 /min	CFM	mmH_2O	IN H_2O	dB-A
THB2048CT	PWM/-F00	48	36.0 to 75.0	4.80	230.00	5800	23.410	827.37	68.50	2.690	73.6

* Function type is optional.
* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
* Noise is measured in anechoic chamber in free air, one meter from intake side.
* All readings are typical values at rated voltage.
* Specifications are subject to change without notice.