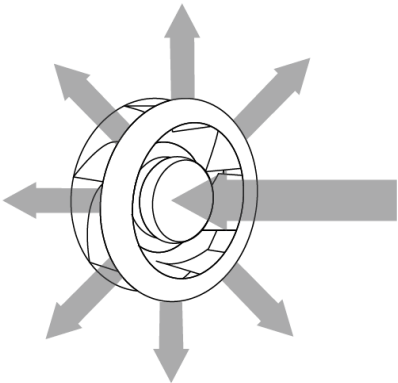
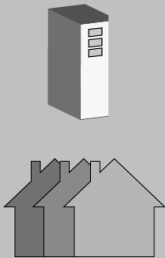


DC & EC Impeller

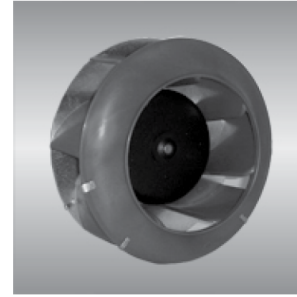
Frame size \ Air flow (CFM)	200	250	300	400	500	600	700	800	900	1000
Ø133mm		91mm								
Ø175mm			68mm							
Ø190mm			68.5mm							
Ø220mm					71mm					
Ø225mm						99mm				
Ø310mm								150mm		
Ø404mm									157mm	

Application

Thermal exchange kit
Cooling fan
CNC machine cooling
Clean roon ventilator
Air Conditioner



Ø 133 BG series x91mm



■ General Specifications

- Motor : 8 Poles brushless DC motor
- Frame & Impeller : Al die casting & plastic

■ Major Characteristic Parameters

Model	Bearing System	Rated Voltage	Operating Voltage Range	Rated Current	Rated Speed	Maximum Air Flow		Maximum Static Pressure		Sound Level	Weight
Part NO.	B / S / F	V	V	A	RPM	m ³ /min	CFM	mm-H ₂ O	In-H ₂ O	dBA	Kg
BGN13391B24U	B	24	18.0~28.0	1.6	4000	6.00	212	36.8	1.45	65	0.74
BGN13391B48U	B	48	36.0~56.0	0.8	4000	6.00	212	36.8	1.45	65	0.74
BGN13391B48S	B	48	36.0~56.0	1.3	4500	7.00	247	41.5	1.63	70	0.74

Ø 175 BG series x69mm



■ General Specifications

- Motor : 8 Poles brushless DC motor
- Frame & Impeller : Al die casting & plastic

■ Major Characteristic Parameters

Model	Bearing System	Rated Voltage	Operating Voltage Range	Rated Current	Rated Speed	Maximum Air Flow		Maximum Static Pressure		Sound Level	Weight
Part NO.	B / S / F	V	V	A	RPM	m ³ /min	CFM	mm-H ₂ O	In-H ₂ O	dBA	Kg
BGN17569B24H	B	24	18.0~28.0	1.5	3300	9.35	330	38.1	1.50	63	0.73
BGN17569B48H	B	48	36.0~56.0	1.2	3300	9.35	330	38.1	1.50	63	0.73
BGN17569B48U	B	48	36.0~56.0	1.2	4200	11.55	408	63.0	2.48	72	0.73

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Ø 190 BG series x69mm



■ General Specifications

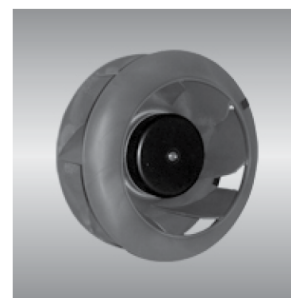
- Motor : 8 Poles brushless DC motor
- Frame & Impeller : Al die casting & plastic

■ Major Characteristic Parameters

Model	Bearing System	Rated Voltage	Operating Voltage Range	Rated Current	Rated Speed	Maximum Air Flow		Maximum Static Pressure		Sound Level	Weight
Part NO.	B / S / F	V	V	A	RPM	m³/min	CFM	mm-H₂O	In-H₂O	dBA	Kg
BGN19069B28U	B	24	16~28	3.5	3000	1.81	325	46	9.20	62	1.33
BGN19069B48U	B	48	36~56	1.8	3000	1.81	325	46	9.20	62	1.33

EC Impellers are available for
dia 190 impeller

Ø 225 BG series x99mm



■ General Specifications

- Motor : 8 Poles brushless DC motor
- Frame & Impeller : Al die casting & plastic

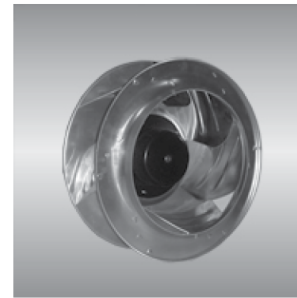
■ Major Characteristic Parameters

Model	Bearing System	Rated Voltage	Operating Voltage Range	Rated Current	Rated Speed	Maximum Air Flow	Maximum Static Pressure	Sound Level	Weight		
Part NO.	B / S / F	V	V	A	RPM	m³/min	CFM	mm-H₂O	In-H₂O	dBA	Kg
BGN22599B24M	B	24	16~28	4.5	2500	16.77	592	59.2	2.33	68	1.81
BGN22599B48M	B	48	36~56	2.3	2500	16.77	592	59.2	2.33	68	1.81
BGN22599B48H	B	48	36~56	4.0	3100	20.79	734	73.2	2.88	84	1.81

*Bearing system B: Two Ball Bearing F: Fluid Bearing S: Sleeve Bearing

EC Impellers are available for
dia 225 impeller

Ø 310 BG series x150mm



■ General Specifications

- Motor : 8 Poles brushless DC motor
- Frame & Impeller : Al die casting & plastic

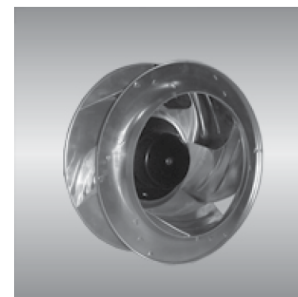
■ Major Characteristic Parameters

Model	Bearing System	Rated Voltage	Operating Voltage Range	Rated Current	Rated Speed	Maximum Air Flow		Maximum Static Pressure		Sound Level	Weight
Part NO.	B / S / F	V	V	A	RPM	m ³ /min	CFM	mm-H ₂ O	In-H ₂ O	dBA	Kg
BGN310150B24H	B	24	16~28	5.2	1600	30.50	1077	47.1	1.85	57	2.88
BGN310150B48H	B	48	36~56	3.0	1600	30.50	1077	47.1	1.85	57	2.88

*Bearing system B: Two Ball Bearing F: Fluid Bearing S: Sleeve Bearing

EC Impellers are available for
dia 310 impeller

Ø 404 BG series x157mm



■ General Specifications

- Motor : 8 Poles brushless DC motor
- Frame & Impeller : Al die casting & plastic

■ Major Characteristic Parameters

Model	Bearing System	Rated Voltage	Operating Voltage Range	Rated Current	Rated Speed	Maximum Air Flow		Maximum Static Pressure		Sound Level	Weight
Part NO.	B / S / F	V	V	A	RPM	m ³ /min	CFM	mm-H ₂ O	In-H ₂ O	dBA	Kg
BGN404158B48M	B	48	36~56	4.2	1300	51.00	1801	50.4	1.98	57	2.88

*Bearing system B: Two Ball Bearing F: Fluid Bearing S: Sleeve Bearing

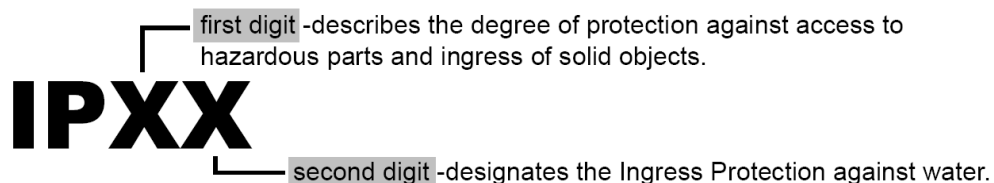
EC Impellers are available for
dia 440 impeller

ECOGREEN TECHNOLOGIES (S) PTE LTD

Ingress Protection

The IEC, standard 60529, has defined Ingress Protection as a two digit code. Please refer to the appropriate sections of IEC.

The IP indication is as follow



(Refer to IEC, standard 60529 for complete information regarding applications, features, and design tests.)

First digit	Definition
0	No special protection
1	•With back of a hand •Large foreign bodies equal or greater than 50mm dia
2	•With a finger •Medium foreign bodies equal or greater than 12.5mm dia
3	•With tools and wires etc equal or greater than 2.5mm thick •Small foreign bodies equal or greater than 2.5mm dia
4	•Complete protection •Granular foreign bodies equal or greater than 1.0mm dia
5	•Complete protection •Dust allowed but not affect function
6	•Complete protection •Dust proof

Second digit	Definition
0	Non-protected
1	Water dripping vertically
2	Water dripping, enclosure tilted up to 15°
3	Spraying water, up to 60° angle from vertical
4	Splashing water, any direction
5	Jetting water, any direction
6	Powerful jetting water, any direction
7	Temporary immersion in water
8	Continuous immersion in water

Conversion Table

Air flow

$1\text{m}^3/\text{min} = 35.31\text{ft}^3/\text{min}(\text{CFM})$
 $1\text{CFM} = 0.0283\text{m}^3/\text{min}$
 $1\text{m}^3/\text{min} = 16.67\text{l}/\text{sec}$
 $1\text{CFM} = 0.42\text{l}/\text{sec}$
 $1\text{l}/\text{sec} = 0.06\text{m}^3/\text{min}$

Air pressure

$1\text{mmH}_2\text{O} = 0.0394\text{inchH}_2\text{O}$
 $1\text{mmH}_2\text{O} = 9.8\text{Pa}$
 $1\text{inchH}_2\text{O} = 25.4\text{mmH}_2\text{O}$
 $1\text{Pa} = 0.102\text{mmH}_2\text{O}$
 $1\text{inchH}_2\text{O} = 249\text{Pa}$