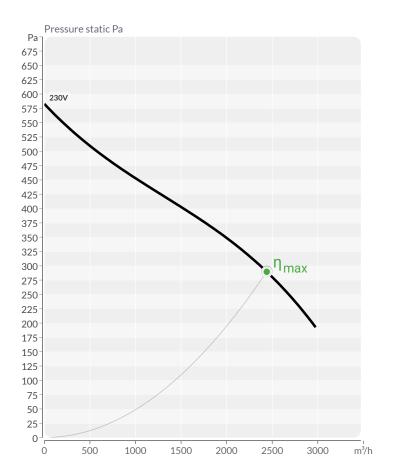
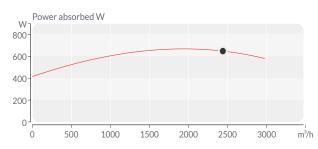


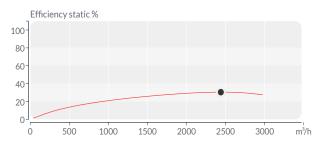


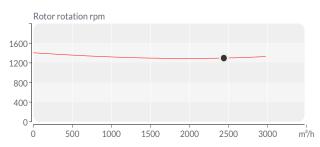
# **BGK 300** Symbol: Number of pieces:1











### Design point

• .									
Flow	Q			<b>2460</b> m³/h					
Pressure	Pressure		Δр	Δp		290		Pa	
Ambient temperature	е		t <sub>MED</sub>		20		°C		
Outy point									
Flow			Q		245	59	2460	m³/h	
Static pressure			Δp <sub>st</sub>		29	90	290	Pa	
Dynamic pressure		$\Delta p_{\scriptscriptstyle D}$		18		18	Pa		
Total pressure	sure Δp <sub>τοτ</sub>		<b>307</b> 3		307	Pa			
Absorbed power			P <sub>ABS</sub>		65	50	650	W	
Current			I <sub>ABS</sub>		2.9	96	2.96	Α	
Speed			n		129	97	1297	rpm	
Speed			٧		5.4	14	5.44	m/s	
Static efficiency		$\eta_{ ext{st}}$		<b>30.4</b> 30.		30.4	%		
Total efficiency		$\eta_{ ext{TOT}}$		32.3		32.3	%		
SFP			SFP		952		951	W/m³/s	
Regulation						-	-	V	
Sound power level	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Σ
Inlet - L <sub>WA5</sub>	46	58	55	58	57	53	45	35	64
Outlet - L <sub>WA6</sub>	70	80	74	78	77	74	66	56	84
Edited - L <sub>WA2</sub>	52	40	53	70	69	68	62	50	74
Sound pressure level	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Σ
Inlet - L <sub>PA5</sub>	32	44	41	44	43	39	31	21	50
Outlet - L <sub>PA6</sub>	56	66	60	64	63	60	52	42	70

# Nominal parameters

Maximum flow	$Q_{\text{MAX}}$	3000	m³/h
Static pressure maximum	$\Delta p_{\text{MAX}}$	550	Pa
Nominal power	P <sub>NOM</sub>	620	W
Nominal speed	n	1430	rpm
Nominal current	I <sub>NOM</sub>	1.55	Α
Nominal voltage	I <sub>NOM</sub>	230	V
Number of phases	~	1	
Nominal frequency	f <sub>NOM</sub>	50	Hz
Sound pressure level from the housing	L <sub>PA2</sub>	48	dB(A)
Diameter	Ø	400	mm
Profile for rectangular connections	AxB	555x320	mmxmm
Unit weight	m	160	kg
Minimum operating temperature	t <sub>OPmin</sub>	-20	°C
Maximum operating temperature	t <sub>OPmax</sub>	40	°C
Maximum medium temperature	t <sub>MEDmax</sub>	40	°C
Maximum ambient temperature	t <sub>AMBmax</sub>	40	°C
Capacitor capacitance	CAP	10	μF
Capacitor voltage	U <sub>CAP</sub>	400	V
Number of motor poles	pole	4	х
Motor type		AC	
Type of motor control		٧	
Motor protection		TEAO	
Motor insulation class		F	
Motor protection class		IP44	

The sound pressure level was determined for the conditions distance from the fan 3m, slope factor Q: 2, sound wave disturbance, equivalent absorption area 200m² Sabine



Edited - L<sub>PA2</sub>

60

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# **BGK 300** Symbol: Number of pieces:1





### **Device Components and Material Properties**

The body is manufactured from galvanized sheet metal. Some of the fans of the BGK are made of high quality galvanized steel which is resistant to corrosion and some models are made of aluminum material to meet their performance requirements. All models have an external rotor motor with closed structure. The device is capable of handling air at max. 40°C. It consists of high efficiency plate heat exchanger, external rotor motor plug fan, filters and control panel components. An electric heater is available as an option.

### **Device Structure**

Polyethylene insulation material is used for sound insulation and thermal insulation of the device body. There is a condensation pan designed to drain the condensate on the heat recovery exchanger.

### **Speed Control**

Heated electric heater, low and high limit safety temperature thermostat.

By means of the heat exchanger, the heat is transferred by means of heat exchanger without the mixture between the exhausted air and the fresh air taken from the outer space, pre-heating in winter conditions and pre-cooling in summer conditions. Since no extra energy is consumed in the meantime, some of the energy to be consumed for heating or cooling the fresh air is obtained from the indoor or outdoor air. Due to the recovery of exhaust heat, it reduces the initial investment and operating costs of air conditioning systems. The speed can be adjusted via the control panel. Easy access to plug fans and filters.

### **Usage Areas**

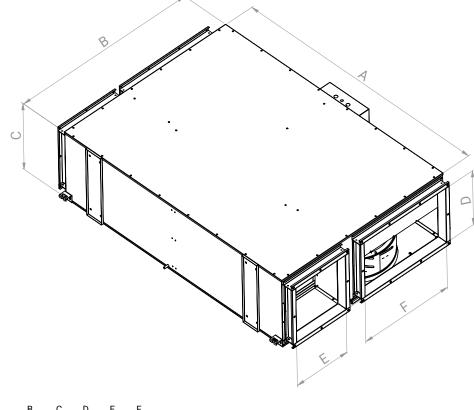
School, hotel, shopping center, business centers, villa, hospital etc. structures where high amounts of fresh air are needed; It is used in cases where air freshening and air conditioning is desired to be done in an efficient way.

## Accessory list



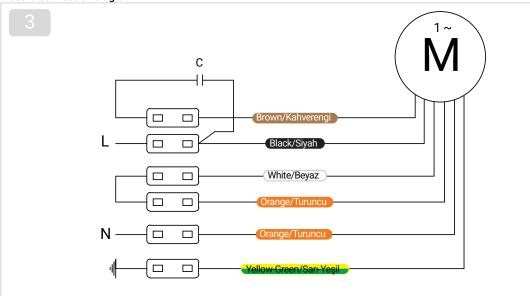
BSC-1 Speed control devices

### Dimensions [mm]



Α	В	С	D	Ε	F
1500	1200	415	320	400	555

### Electric connection diagram



### Support/Files

- https://www.bvnair.com/fansecim/data/f.php?path=revit%2FBGK.rfa
- https://www.bvnair.com/fansecim/data/f.php?path=dimension%2FBGK\_montage1\_drawing.pdf
- https://www.bvnair.com/fansecim/data/f.php?path=dimension%2FBGK\_montage2\_drawing.pdf
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