FG 12 EC

Item no. 49903

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Description

- EC-motors, high level of efficiency
- 100% speed controllable
- Pre-wired potentiometer
- Integrated motor protection
- Supplied with mounting bracket
- Certified by HVI and AMCA
- cULus Listed, Energy Star



The FG EC Series fans are known for their economical use of energy and excellent ease of control. They can be varied in speed to match the airflow demand, and operate at high efficiency levels. For the same air volume, they consume considerably less energy than an AC fan.

Another special feature of EC fans is their energy-saving potential not only at full load, but especially at part-load. When operating at part-load, the energy used is much lower than with an AC motor of equivalent output. Reduced energy usage guarantees a drop in operating costs.

The FG EC series is designed for installation in ducts. All fans have a minimum 1 inch long connection collar. The fans have backward-curved blades and external rotor motors (EC). The FC mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct. The fans are delivered with a pre-wired potentiometer (0-10V) that allows you to easily find the desired working point.

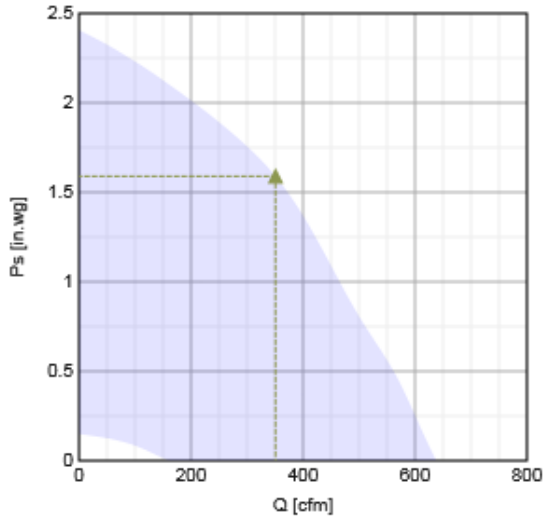
Motor protection is integrated in the electronics of the motor. The casing is manufactured from galvanized sheet steel with the seams folded to give the fan a close to air tight casing. Outdoor mounting and wet room applications are possible.

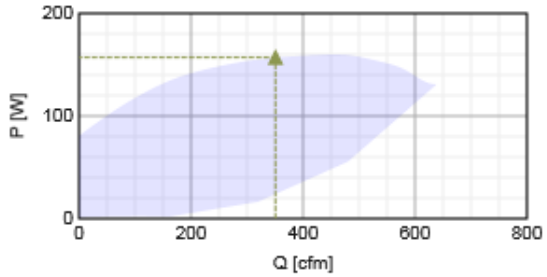
Technical parameters

Voltage	120	V
Frequency	60	Hz
Phase	1	~
Power	136	W
Current	0.95	A
Max. airflow	638	cfm
Fan impeller speed	2654	r.p.m.
Max. temperature of transported air	140	°F
Weight	16	lbs.
Insulation class, motor	B	
Enclosure class, motor	44	IP
Certificate	AMCA Air, HVI, cULus, Energy Star	

Performance

Diagrams

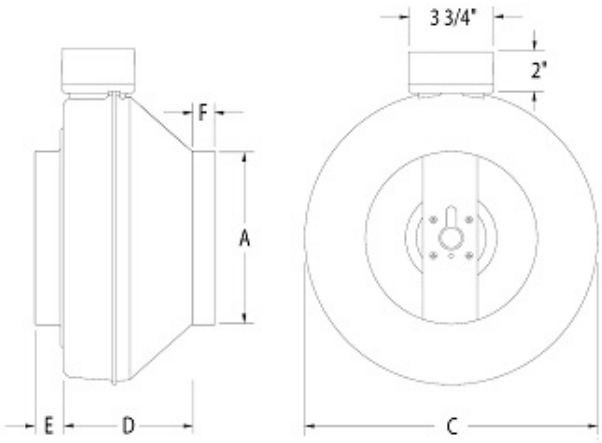




Hydraulic data

	Working point						
	Q [cfm]	Ps [in.wg]	P [W]	n [r.p.m.]	I [A]	SFP [W/l/s]	U [V]
Max efficiency	▲ 351	▲ 1.59	▲ 157	2615	1.09	0.948	120

Dimensions

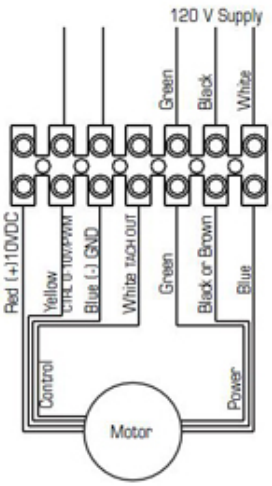


Model	A	C	D	E	F
6M EC	6	13 1⁄8	6 5⁄8	1	1
8 EC	8	13 3⁄8	6	1 1⁄8	1 1/8
10 EC	10	13 3⁄8	4 11⁄16	1 1⁄8	1
12 EC, 12XL EC	12	16	8 1⁄4	1 1/16	1 3/16

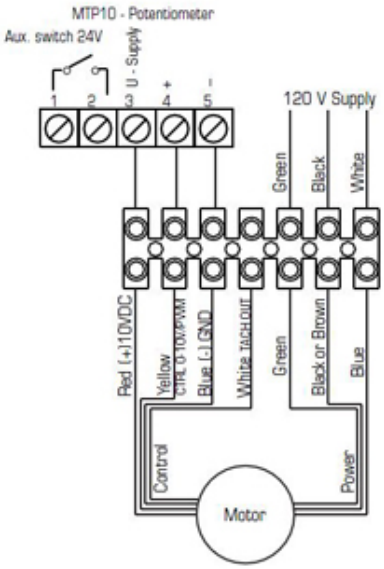
Dimensions in inches

Wiring

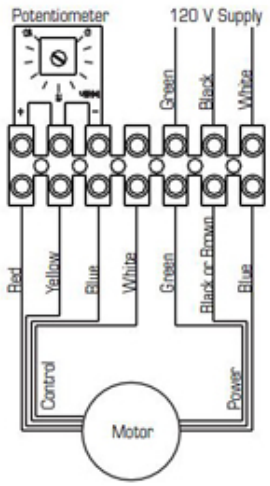
For connection to a building management system



With external motor speed controller



Without external motor speed controlle



Accessories

Electric accessories

MTP 10, 10K, Speed control (32731)

Accessories

FB6 (40304)
FC 12,Clamp,2Pcs Kit (411123)
IG6,Inlet Guard,6" (411109)
IR12,Iris Damper 12" (411239)
LD12,Silencer,12"Dia Duct (411287)
RSK12,Damper (411117)

Documentation

(483359 FG EC Guide Spec EN.pdf, 70kB)
(483358 FG EC Submittal Sheet EN.pdf, 200kB)
(490095 FG EC OIPM EN FR ES.pdf, 524kB)
(483256 FG EC Brochure EN.pdf, 1MB)