

Protect the Earth, advocate the use of renewable energy

Dedicated for Fan Coil Unit (FCU) in chilled water systems

EC Brushless Motor

Energy-saving and carbon reduction. Green energy: Open-source & Efficiency

FCU102-12311

"ESG commitment drives corporate sustainability,"

- 1. Tri-speed input signal with visible LED indicator
- 2. 3 voltage inputs (110V/220V/277V AC) one unit fits all
- 3. Stepless static pressure adjustment (high/low)
- 4. Vibration-proof & IP55 splash-proof safe for fan cleaning

Can be integrated with our IQ-500 series products for DDC digital network control (Direct Digital Control).

FCU fan upgraded to DC EC motor Saves 40+% Energy



EC (Electronically Commutated)

- the most efficient motor technology, also called BLDC motor.



Easiest retrofit solution

Compatible with AC motors for direct replacement-ideal for repairs and replacements.



Proudly made in Taiwan!

EC motor: 40-80% energy savings (low temp/speed).



Keeps old thermostat

6 Powerful Advantages

The original AC thermostat can be retained, and the original control system remains unchanged.



Metal protective conduit

Power cord with metal protective conduit, compliant with building regulations.



3-speed for all pressures

Three-stage fan speed (adjustable rotation speed to meet high and low static pressure demands).

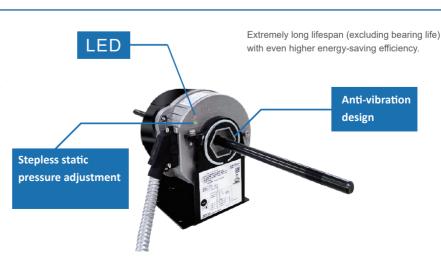


Ultra-quiet motor

Resin-sealed motor body with high-efficiency drive design, ensuring quieter and low-noise operation indoors.

Single-axis DC brushless motor FCU102-60311

- Operating environment temperature : -20~60℃
- Storage environment temperature: -25~80℃



Control methods >>

• Speed switching : three speed levels for control.

• Signal input pin positions :

(1) H SPEED to COM

(2) M_SPEED to COM

(3) L SPEED to COM

• Input signal format : AC90~264V

• Input signal frequency range: 50~63Hz

Three-speed RPM gauge				
Speed selection Static pressure mode	н	M	L	
RPM	1050 (800~1150)	800 (600~950)	420 (300~700)	
Airflow variation		30% - 115%		

Product spe	ecifications	

· Input characteristics :

(1) Dual-axis - BAA02043 : 120W / 110V \ 220V \ 277V

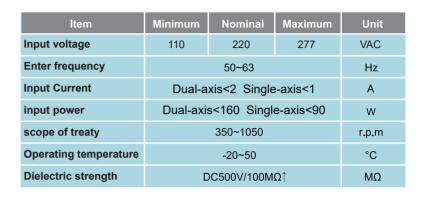
(2) Single-axis - BAA02045 : 60W / 110V \ 220V \ 277V

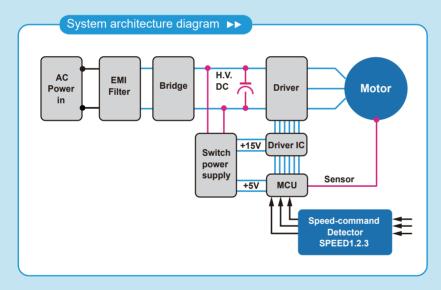
• Motor shaft height : 105mm±2

 The motor is sensorless and has overcurrent protection; it has a Class B insulation rating.

 The motor drive technology uses sinusoidal wave control, with a drive frequency of 20kHz.

• Applicable range: This product includes a driver and a DC brushless motor, suitable for DC motor applications.





• The (H) height of the FCU fan impeller diameter corresponding to the motor shaft :

Impeller Ø160mm = H105mm (Common in Taiwan)

Impeller Ø150mm = H100mm Impeller Ø140mm = H95mm Impeller Ø130mm = H90mm

