
LG EC MOTOR FOR HVAC APPLICATIONS

LG Component Solutions Business Unit offers meaningful and unique solutions to respond to emerging sustainability needs with environmentally sound and energy saving technologies.



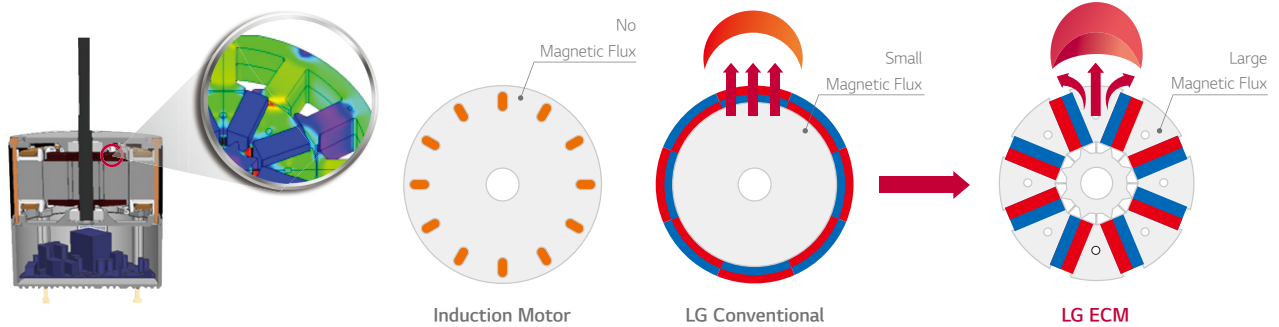
WHY LG EC MOTORS?

In response to the rising demand for more efficient motors in the HVAC market, LG has developed its first Electronically Commutated Motor (ECM) with the expertise and industry knowledge as a global HVAC manufacturer. LG ECM enters the market with its magnetic flux concentration design, delivering performance with low energy consumption. Its powerful motor platform boasts a capacity of 1/3 to 1HP for compatibility across a wide range of applications, from air conditioner condensers, air handlers, and related air ventilation components.

DESIGN FEATURES

LG's New EC Motor is designed to concentrate the magnetic flux as compared to LG's conventional SPM type motor.

Magnetic Flux Concentration Design



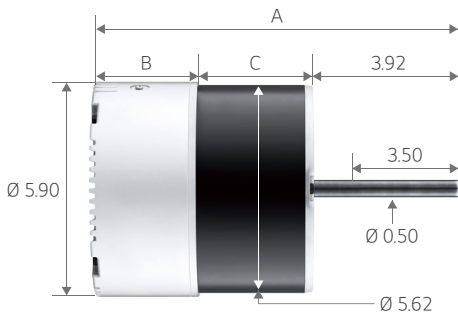
SPECIFICATIONS

EC Motor for Indoor Unit	
Type	ECM
Rated Output [HP]	1/3, 1/2, 3/4, 1
Rated Speed [rpm]	1,050
Maximum Speed [rpm]	1,200
Voltage [V]	AC 115/230, DC 280 ~ 340
Operation Temperature [°C]	0 ~ 55
Communication	DSI or PWM
Operation Mode	Constant Speed, Torque, Airflow
Application	Furnace, Air Handler

EC Motor for Outdoor Unit	
Type	ECM
Rated Output [HP]	1/3, 1/2
Rated Speed [rpm]	1,050
Maximum Speed [rpm]	1,200
Voltage [V]	AC 115/230, DC 280 ~ 340
Operation Temperature [°C]	-20 ~ 60
Communication	PWM
Operation Mode	Constant Speed
Application	Split System Outdoor Unit

DIMENSIONS

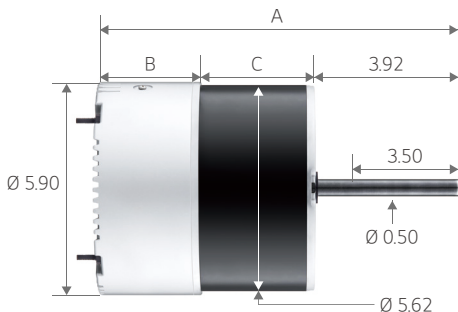
EC Motor for Indoor Unit



※ All Dimensions and Specifications are only for reference.

HP	1/3	1/2	3/4	1
A	9.82	9.82	11.20	11.20
B	2.44	2.44	2.83	2.83
C	3.46	3.46	4.44	4.44

EC Motor for Outdoor Unit



※ All Dimensions and Specifications are only for reference.

HP	1/3	1/2
A	9.82	9.82
B	2.44	2.44
C	3.46	3.46



4300 NORTH POINT PKWY SUITE#100 ALPHARETTA, GA 30022
Office : 678-328-6433
www.lg.com/global/business

For Continual product development, LG reserves the right to change the specifications without notice.
© LG Electronics Inc. Printed in Korea Jan, 2020

