Azure® ECM HVAC Selection Guide

Identifying a suitable replacement motor is a two-step process. First, identify a few points from the original motor. Second, select a suitable replacement option.

Step 1, Gather the information from original motor

A. Verify application – is the motor being replaced a direct drive blower motor or a condenser motor?

B. Identify original motor type – PSC, Constant Torque ECM, or Variable Speed ECM. If PSC, move on to step C. If ECM, you can identify motor by matching the harness type below.

Wiring Harness Appearance

Constant Torque

16 Pin Variable Speed (2.0 & 2.3)

4 Pin Variable Speed

C. Identify horsepower from original motor or furnace nameplate.

D. Identify voltage from original motor or furnace nameplate.

Step 2, Identify suitable replacement using the table below

APPLICATION	ORIGINAL MOTOR TYPE	HP	VOLTS	AIRFLOW ADJUSTMENT METHOD	MARS NO.
Direct Drive Blower	Variable Speed ECM	1/4-1/2	115/230	Bluetooth built in; configuration done using free Azure app	10856
		1/2-1			10857
	Constant Torque ECM	1/5-1/2	115/230	Bluetooth built in; configuration done using free Azure app	10858
		1/2-1			10859
	PSC	1/8-1/3	115/230/277	Module (08502)	10867[1]
		1/3-1/2	115/230		10865
		3/4-1			10866
Condenser	PSC	1/8-1/3	208-230	Apply 120V – Motor cycles through possible configurations	10874

1) *Features a 5.0" diameter body.*

A few points to aid in selection

- All motors noted above are single phase ECMs, designed for use in traditional residential split HVAC systems, and do not require capacitors.
- Unless noted otherwise all feature a 5.5" diameter body.
- Setting/Optimizing Airflow – All motors feature a simple method to configure or make airflow adjustments in the field. The methods vary depending on the specific motor.