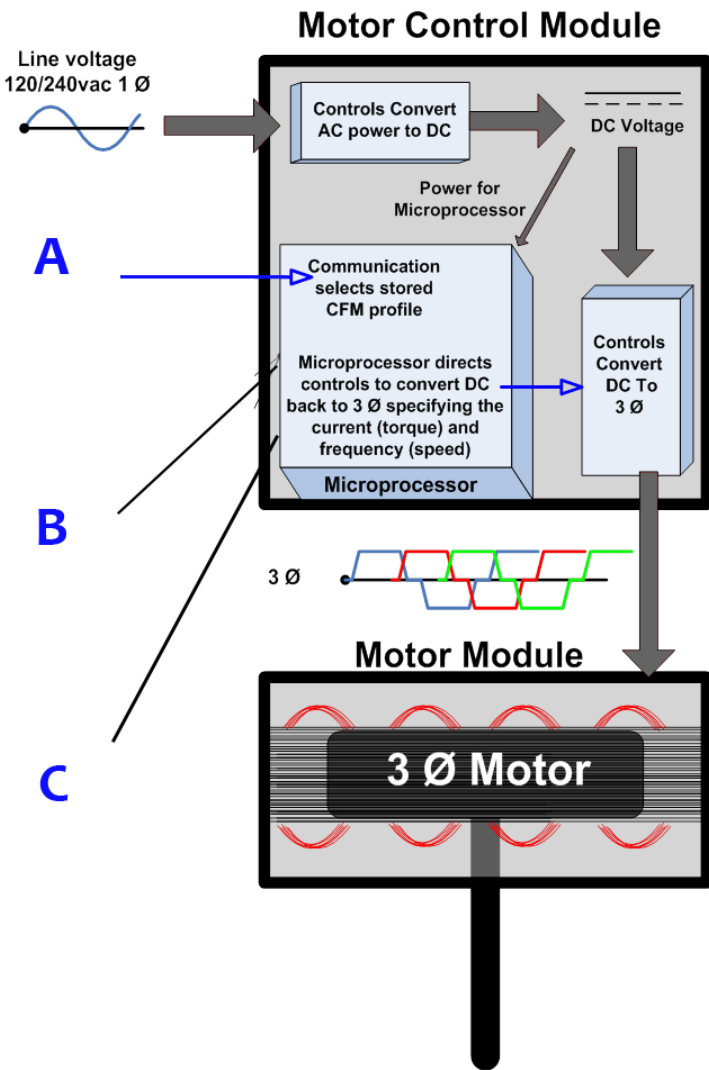


DVM Motors Solutions

The Strategic Horsepower to Drive Efficiency

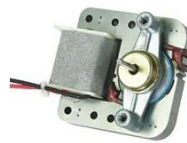
EC Motors



What is ECM Technology?

- High Efficiency Variable Speed Motor.
- Permanent magnet motor and electronic control allows for higher efficiencies and higher energy savings.
- Similar to an interval horsepower motor with a VFD (Variable Frequency Drive)
- As speed is reduced the savings is to the cubed root.

Shaded Pole Motor



Induction
Single phase
Rotating flux
20% efficiency

Very old
Technology

PSC Motor



Induction.
Single phase
Relay contacts
35-55% efficiency

Old
Technology

ECM Motor



DC machine
Single and 3 phase
Multiple signal control
65-85+% efficiency

NEW
Technology

A

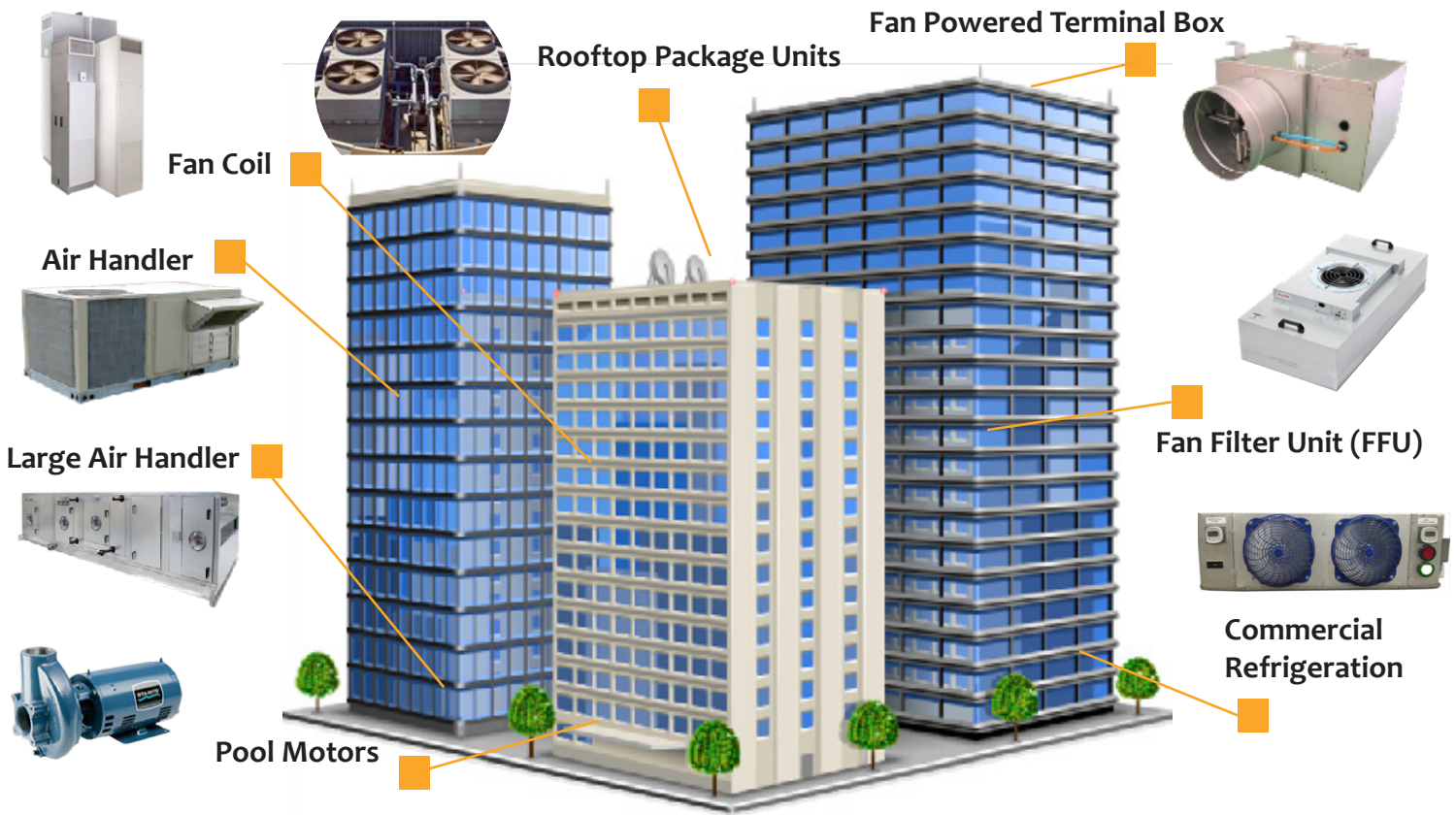
Communication from Air Handler demand (heat, cool, fan...)

B

The microprocessor constantly monitors motor speed (RPM) or torque

C

The Microprocessor continuously directs the controls to adjust torque and/or speed to maintain designed output program.



EC Motor Benefits

- **30 – 80% More Efficient** – High Energy Savings- Payback 1-3 Years.
- **Motors run extremely quiet**, typically 70% less than your standard motor.
- Due to high efficiencies, less heat is generated, reducing stress on the windings and bearings **which extends the life of the motor.**
- Soft ramp up and ramp down in speed results in **less wear and tear** of the equipment.
- **Recondition vs Replace:** Cleaning system and replacing the motor to an EC motor not only saves substantial energy but is much more cost effective vs replacing the entire unit.

Hilton Hawaii, HVAC FCU EC Motor

Compare PSC to EON 42 Frame EC Motor

Existing Motor	RPMs	Watts
1/6th HP 115 Volt PSC	1267 – High Speed	240
1/6th HP 115 Volt PSC	810 – Medium Speed	160
1/6th HP 115 Volt PSC	560 – Low Speed	105

Existing Motor	RPMs	Watts	Savings
1/8th HP 115 Volt EC	1225 – High Speed	100	58%
1/8th HP 115 Volt EC	820 – Medium Speed	46	72%
1/8th HP 115 Volt EC	560 – Low Speed	18	83%



1. Contact DVM Industries today to Setup a Site Audit.
2. Develop ROI Analysis & Payback including incentives.
3. Develop Action List with DVM Team.

www.dvmindustries.us

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