# OGD Vhvac:

## *Fan Coil & Roof Top HVAC System Energy Savings with A1-Fan Controller*

**Typical Roof Top Fan Coil System**

**Cooling**

**Heating**

**Fan Coils = FCs**

**Fan Coils+FCs**

FC 1

FC 2

FC 3

FC n

FC n-1

In a common Fan Coil System the Fan Coil units (FCs) themselves do not create or source the cooling or heating capacity. It is done usually with a rooftop chiller or a heating apparatus; refrigerant / water is typically piped to each fan coil connected in a daisy chain configuration.
The fan motors within the FCs themselves are generally small fractional hp motors, on the order of 1/10 - 1/3 hp.

A common misconception is to focus energy upgrades on the roof top unit because little to no system wide energy improvements can be made by upgrading the performance of the individual FCs.
In point of fact OGD's A1-Adaptive Climate Controller can very simply upgrade each individual FC in minutes, but provides full system wide energy and other benefits.

For energy alone there is usually a net reduction in power consumption at each FC of both fan electricity use and also FC valve open time (or run time)! Savings on both range from **20% to 30%!**
But this individual reduction in FC valve run time ripples directly to a **dramatic reduction of refrigerant loading on the chiller or heater apparatus**. Often even higher percent savings are seen on the main source as other connecting FC system losses are also reduced.
This multi factor improvement in system-wide energy savings and efficiency can have a significant effect on electricity, fuel, comfort, quiet and more...
**Contact OGD and see what we can do for your roof top systems and your room FC units.**