

DOC'S BLOCKS
AUTOMOTIVE AIR CONDITIONING REPAIR

Question:

What is a cycling clutch orifice tube?

Answer:

The cycling clutch orifice tube is a fixed metering device that meters flow into the evaporator. It is referred to as a CCOT.

The cycling clutch part means the clutch cycles, usually from pressure, to prevent the evaporator from freezing.

The orifice tube is a fixed orifice, meaning it doesn't change the size of the metering to control flow as an TXV does. The orifice is always used with an accumulator. It is the accumulator that allows the orifice to work.

Orifice tubes come in different colors that indicate the size of the orifice diameter. They range in size from .047 to .072 inches. The reason for this is because of the different capacities of evaporators.

Orifice Size and Color		
White	0.072	GM
Blue	0.067	Ford & GM
Yellow	0.062	GM & Ford
Purple	0.062	Chrysler
Red	0.062	Ford
Orange	0.059	Ford
Green	0.052	Ford
Brown	0.047	Ford