

# How To Test a Run Capacitor Under Load

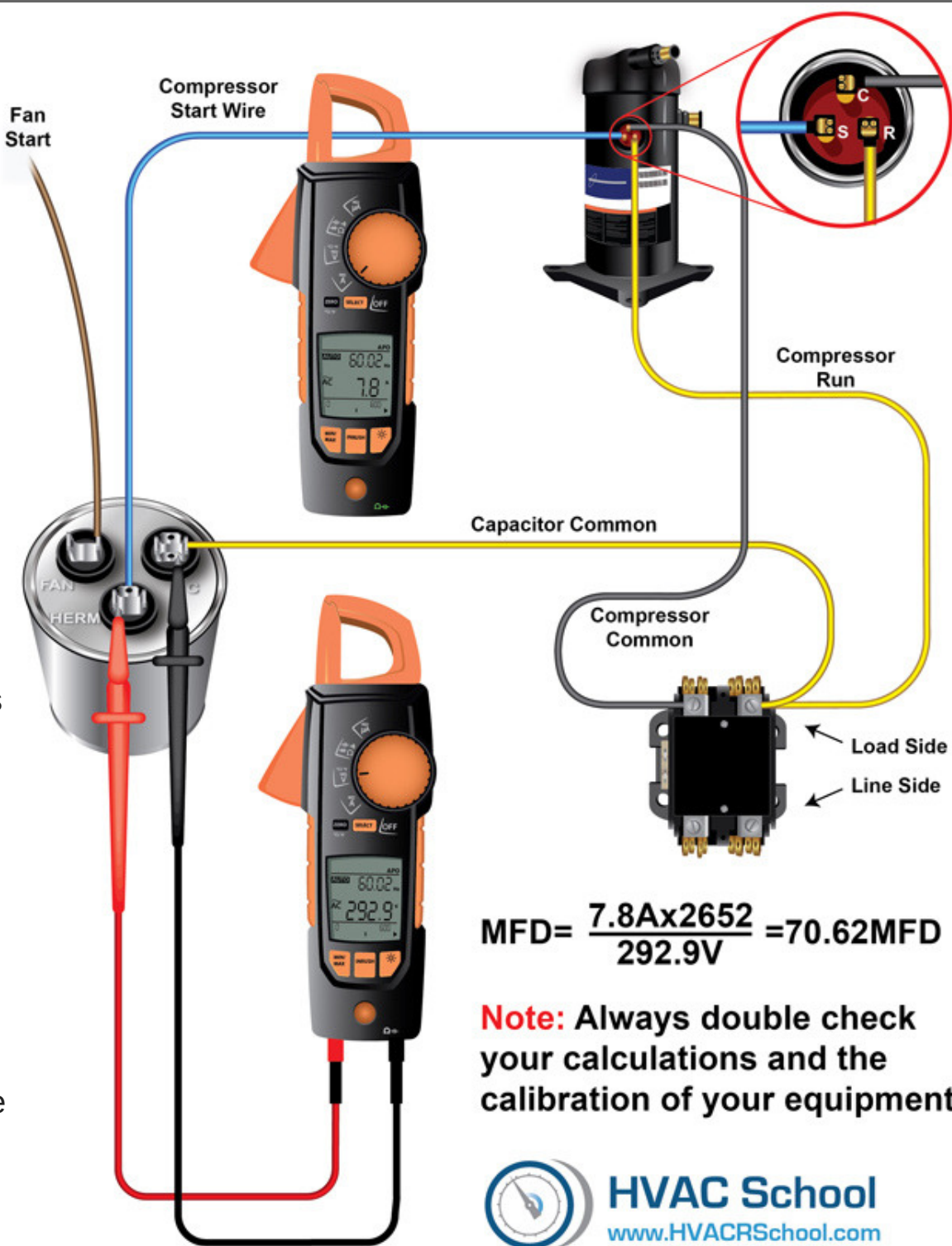
#1 - Check the capacitor data tag capacitance and +/- tolerance

#2 - Measure start winding amps with an amp clamp between the capacitor and the start terminal

#3 - Measure the voltage applied across the capacitor

#4 - Multiply amps times 2652 and then divide by the voltage (Across the capacitor)

#5 - Compare measured capacitance against the capacitor rating and tolerance to see if it measures within specification



$$\text{MFD} = \frac{7.8\text{A} \times 2652}{292.9\text{V}} = 70.62\text{MFD}$$

**Note:** Always double check your calculations and the calibration of your equipment.



**Capacitance (MFD) = Start Winding Amps X 2652 ÷ Volts From Start to Run**

The test under load is an accurate measure of capacitance so long as the voltage and amperage readings taken are accurate. If you suspect a poor reading try retaking the reading, repositioning the clamp or testing against another meter.