



## **Cushion Pack<sup>®</sup> CP 440 S2+ Cardboard Shredder Electrical Information for 240 Volt and 480 Volt Configurations**

The Cushion Pack<sup>®</sup> CP 440 S2+ motor is rated at 4.0kW, or 4,000 Watts; a Watt being a unit of power.

There are 746 Watts in one Horsepower. Now, let's take the 4,000 Watts in the Cushion Pack<sup>®</sup> CP 440 S2+ motor and convert it into Horsepower:

4,000 Watts divided by 746 Watts per Horsepower results in a 5.36 Horsepower rating for the motor.

Circuit breakers that operate this device are rated in Amperage (also known as electrical current).

Let's take the 480 Volt configuration and convert it to the running Amperage that you will need:

4,000 Watts divided by 480 Volts provides an electrical current of 8.33 running Amps.

Now, let's take the 240 Volt configuration and convert it to the running amperage that you will need:

4,000 Watts divided by 240 Volts provides an electrical current of 16.66 running Amps.

When you use higher voltage, less current is required. To use a water hose analogy, the electrical current is the water pressure and the voltage is the diameter of the hose – the bigger the hose the less pressure is required to deliver the same amount of water.

This means that you can use thinner gauge wire and smaller circuit breakers when running the 480 Volt configurations.

With the high cost of copper, many clients get the 480 Volt version. They also get it because 480 Volt is available where they want to plug in the shredder; a matter of convenience.

The 24Volt AC Low-Voltage Control System of the 480 Volt version of the Cushion Pack<sup>®</sup> CP 440 S2+ Corrugated Shredder means that the operator is exposed to only 24 little volts; a very safe configuration.