

## 6.2 Electrical Requirements



**DANGER!** Make sure all electrical installation, service and/or maintenance work is performed by a qualified electrician and is in accordance with applicable electrical codes.



**CAUTION!** The resaw motors and transformer are pre-wired for 480 volt, 60 Hz power supplies. If you plan to use a 480 volt, 60 Hz mill with another type of power supply, you will need to rewire the motor to avoid damage to the sawmill.

The resaw identification plates including the required electrical information are shown below:

MFG BY: WOOD-MIZER LLC, 8180 W. 10th St. Indianapolis, IN 46214-2400 317/271-1542 or 800/553-0182							
SERIAL #	<b>HR1000EC25-1</b>	<b>A1.00</b>	FLA OF LARGEST LOAD	<b>28</b>			
FLA	<b>33</b>	IR	<b>35kA</b>	SCCR	<b>5kA</b>	VOLTS	<b>480</b>
	<b>60</b>	PH	<b>3</b>				
<small>(Base unit only)</small>							
ELECTRICAL DIAGRAM #	<b>MH0206</b>	PATENTS				<small>S20038</small>	
<small>300_0003C</small>							

**HR1000EC25-1/HR1000ECF25-1 (1-HEAD) IDENTIFICATION PLATE**

MFG BY: WOOD-MIZER LLC, 8180 W. 10th St. Indianapolis, IN 46214-2400 317/271-1542 or 800/553-0182							
SERIAL #	<b>HR1000EC25-2</b>	<b>A1.00</b>	FLA OF LARGEST LOAD	<b>28</b>			
FLA	<b>61</b>	IR	<b>35kA</b>	SCCR	<b>5kA</b>	VOLTS	<b>480</b>
	<b>60</b>	PH	<b>3</b>				
<small>(Base unit only)</small>							
ELECTRICAL DIAGRAM #	<b>MH0206</b>	PATENTS				<small>S20038</small>	
<small>300_0003C</small>							

**HR1000EC25-2/HR1000ECF25-2 (2-HEAD) IDENTIFICATION PLATE**

**6****Specifications**  
*Electrical Requirements*

MFG BY: WOOD-MIZER LLC, 8180 W. 10th St. Indianapolis, IN 46214-2400 317/271-1542 or 800/553-0182												
SERIAL #	<b>HR1000EC25-3</b>	<b>A1.00</b>	FLA OF LARGEST LOAD	<b>28</b>								
FLA	<b>89</b>	IR	<b>35kA</b>	SCCR	<b>5kA</b>	VOLTS	<b>480</b>	HZ	<b>60</b>	PH	<b>3</b>	
<i>(Base unit only)</i>												
ELECTRICAL DIAGRAM #	<b>MH0206</b>	PATENTS					S20038					

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**HR1000EC25-3/HR1000ECF25-3 (3-HEAD) IDENTIFICATION PLATE**

MFG BY: WOOD-MIZER LLC, 8180 W. 10th St. Indianapolis, IN 46214-2400 317/271-1542 or 800/553-0182												
SERIAL #	<b>HR1000EC25-4</b>	<b>A1.00</b>	FLA OF LARGEST LOAD	<b>28</b>								
FLA	<b>117</b>	IR	<b>35kA</b>	SCCR	<b>5kA</b>	VOLTS	<b>480</b>	HZ	<b>60</b>	PH	<b>3</b>	
<i>(Base unit only)</i>												
ELECTRICAL DIAGRAM #	<b>MH0206</b>	PATENTS					S20038					

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**HR1000EC25-4/HR1000ECF25-4 (4-HEAD) IDENTIFICATION PLATE**

MFG BY: WOOD-MIZER LLC, 8180 W. 10th St. Indianapolis, IN 46214-2400 317/271-1542 or 800/553-0182												
SERIAL #	<b>HR1000EC25-5</b>	<b>A1.00</b>	FLA OF LARGEST LOAD	<b>28</b>								
FLA	<b>145</b>	IR	<b>35kA</b>	SCCR	<b>5kA</b>	VOLTS	<b>480</b>	HZ	<b>60</b>	PH	<b>3</b>	
<i>(Base unit only)</i>												
ELECTRICAL DIAGRAM #	<b>MH0206</b>	PATENTS					S20038					

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**HR1000EC25-5/HR1000ECF25-5 (5-HEAD) IDENTIFICATION PLATE**

MFG BY: WOOD-MIZER LLC, 8180 W. 10th St. Indianapolis, IN 46214-2400 317/271-1542 or 800/553-0182											
SERIAL #	<b>HR1000EC25-6</b>	<b>A1.00</b>	FLA OF LARGEST LOAD	<b>28</b>							
FLA	<b>173</b>	IR	<b>35kA</b>	SCCR	<b>5kA</b>	VOLTS	<b>480</b>	HZ	<b>60</b>	PH	<b>3</b>
<small>(Base unit only)</small>											
ELECTRICAL DIAGRAM #		<b>MH0206</b>		PATENTS				S20038			
											<small>300_0003C</small>

**HR1000EC25-6/HR1000ECF25-6 (6-HEAD) IDENTIFICATION PLATE**

The electrical requirements for the resaw are listed below. **IMPORTANT!** The resaw is pre-wired for use with a 480 volt power supply. To operate the resaw with a 380 or 415 volt power supply, the resaw must be rewired. The incoming power line (L3) to the control transformer must be moved. The wire should be moved from the 480V terminal (labeled H4) to the 415V terminal (labeled H3) or the 380V terminal (labeled H2). [See the provided wiring schematics for transformer terminal identification.](#)

**NOTE:** Though the machine will operate at 400 Volts 50 Hertz without an additional power transformer, the motors will operate at lower horsepower (25 hp = 19.2 hp). A transformer will restore full horsepower.

**NOTE:** No transformer is required to operate the resaw on 400 Volts 50 Hertz.

To run at 240 volts, an additional power transformer is required. See the list below for transformers available from Wood-Mizer. All transformers are manufactured by Square D. Installation recommendations are provided for each voltage on the following pages.

**See Table 6-1.**

Conversion From/To	No. of Heads	No. of Transformers Required	Part No.
<b>240 to 480 volts</b>	1	1	069712
	2-3	1	068057
	4	1	068058
	5-6	1	078216

**TABLE 6-1**

# 6 Specifications

## Electrical Requirements

<b>400 to 480 volts</b> <sup>1</sup>	1	1	069616
	2-3	1	068055
	4	1	068056
	5-6	1	078217
<b>600 to 480 volts</b>	1	1	068047
	2-3	1	078214
	4	1	078215
	5-6	1	078218

**TABLE 6-1**

<sup>1</sup> A transformer is not required to run on 400 Volts 50Hz but horsepower will be reduced. To restore horsepower use the transformer listed in the table.

**See Table 6-2.** The amperage required for the resaw is listed below.

Motor HP	Power Supply			Required Amps/# of Heads					
	Volts	PH	Hz	1	2	3	4	5	6
25	230 <sup>1</sup>	3	50/60	80	150	210	270	340	400
25	380 <sup>2</sup>	3	50	45	85	120	150	190	220
25	415 <sup>3</sup>	3	50	40	75	105	135	170	200
25	460 <sup>3</sup>	3	60	40	75	105	135	170	200

**TABLE 6-2**

<sup>1</sup> Transformer Required

<sup>2</sup> Transformer Suggested

<sup>3</sup> No Transformer Required