



# 115/230V Output Single Phase Buck/Boost Transformer - [77000025 (.25 KVA), 77000026 (.50 KVA), 77000027 (.75 KVA)]

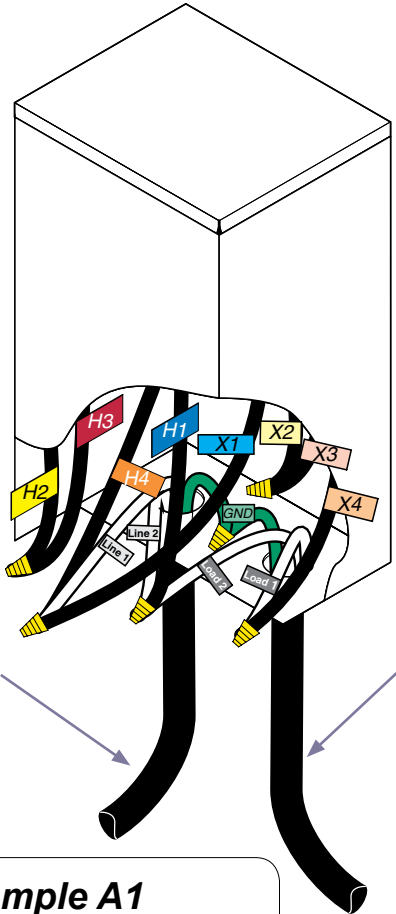
**Applies to Models:**  
All Midmark Air Compressors and Vacuum Systems

**Special Tools:**  
none

Language of origin: English

**WARNING**  
Equipment is not suitable for use in the presence of a flammable anesthetic mixture.

## Low Line Voltage (208 VAC)



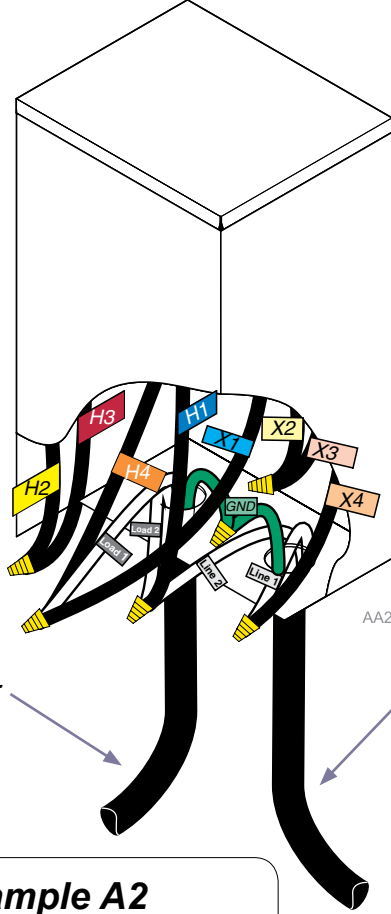
208V Line Voltage

230 Volts Load (Compressor or Vacuum Pump)

**Example A1**  
Wire Diagram Shows Boosting from 208 VAC to 230 VAC  
See Chart on Page 2

**Note**  
Transformer is not pre-wired for either buck or boost application. Do not use buck/boost transformers to solve a fluctuating voltage problem. They should be used to compensate for high or low voltage conditions only when available line voltage is reasonably constant.

## High Voltage (253 VAC)



230V Power to Compressor or Vacuum Pump

253V Line Voltage

AA2368-1

**Example A2**  
Wire Diagram Shows Bucking from 253 VAC to 230 VAC  
See Chart on Page 2

# 115VAC and 230VAC Buck Boost Selection Chart

|                           |       | 115V                   |           |           |           | 230V      |           |           |           |
|---------------------------|-------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Midmark Product           |       | Available Line Voltage |           |           |           |           |           |           |           |
| Family                    | Model | 91                     | 103       | 127       | 139       | 206       | 218       | 242       | 254       |
| PowerAir Compressor®      | P21   | 2                      | 1         | 1         | 2         |           |           |           |           |
| PowerAir Compressor®      | P22   |                        |           |           |           | 1         | 1         | 1         | 1         |
| PowerAir Compressor®      | P32   |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerAir Compressor®      | P52   |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerAir Compressor®      | P72   |                        |           |           |           | 3         | 2         | 2         | 3         |
| PowerVac® G               | G3    |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac® G               | G5    |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac® G               | G7    |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac® G               | G6    |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac® G               | G10   |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac® G               | G14   |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac®                 | P3    |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac®                 | P5    |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac®                 | P7    |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac®                 | P6    |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac®                 | P10   |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerVac®                 | P14   |                        |           |           |           | 2         | 1         | 1         | 2         |
| ClassicSeries® Vacuum     | CV3   | 2                      | 1         | 1         | 2         | 1         | 1         | 1         | 1         |
| ClassicSeries® Vacuum     | CV3R  | 2                      | 1         | 1         | 2         | 1         | 1         | 1         | 1         |
| ClassicSeries® Vacuum     | CV5   |                        |           |           |           | 2         | 1         | 1         | 2         |
| ClassicSeries® Vacuum     | CV5R  |                        |           |           |           | 2         | 1         | 1         | 2         |
| ClassicSeries® Vacuum     | CV6   | 2                      | 1         | 1         | 2         | 1         | 1         | 1         | 1         |
| ClassicSeries® Vacuum     | CV6R  | 2                      | 1         | 1         | 2         | 1         | 1         | 1         | 1         |
| ClassicSeries® Vacuum     | CV10  |                        |           |           |           | 2         | 1         | 1         | 2         |
| ClassicSeries® Vacuum     | CV10R |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerMax Vacuum           | PM-1  |                        |           |           |           | 1         | 1         | 1         | 1         |
| PowerMax Vacuum           | PM-3  |                        |           |           |           | 2         | 1         | 1         | 2         |
| PowerMax Vacuum           | PM-4  |                        |           |           |           | 2         | 1         | 1         | 2         |
| <b>Connection Diagram</b> |       | <b>C1</b>              | <b>D1</b> | <b>D2</b> | <b>C2</b> | <b>A1</b> | <b>B1</b> | <b>B2</b> | <b>A2</b> |

| Transformer Legend |         |
|--------------------|---------|
| Part # to Order    | Chart # |
| 77000025           | 1       |
| 77000026           | 2       |
| 77000027           | 3       |

## Boost Wire Connections

Connecting Transformer:

- Attach X4 to Load(1)
- Attach X3 to X2
- Attach X1 and H4 to Line(1)
- Attach H3 to H2
- Attach H1 to Line(2) and Load(2)

**A1**

Connecting Transformer:

- Attach X4 and X2 to Load(1)
- Attach X3, X1, and H4 to Line(1)
- Attach H3 to H2
- Attach H1 to Line(2) and Load(2)

**B1**

Connecting Transformer:

- Attach X4 to Load(1)
- Attach X3 to X2
- Attach X1, H2, and H4 to Line(1)
- Attach H1 and H3 to Line(2) and Load(2)

**C1**

Connecting Transformer:

- Attach X4 and X2 to Load(1)
- Attach X3, X1, H2 and H4 to Line(1)
- Attach H1 and H3 to Line(2) and Load(2)

**D1**

## Buck Wire Connections

Connecting Transformer:

- Attach X4 to Line(1)
- Attach X3 to X2
- Attach X1 and H4 to Load(1)
- Attach H3 to H2
- Attach H1 to Line(2) and Load(2)

**A2**

Connecting Transformer:

- Attach X4 and X2 to Line(1)
- Attach X3, X1, and H4 to Load(1)
- Attach H3 to H2
- Attach H1 to Line(2) and Load(2)

**B2**

Connecting Transformer:

- Attach X4 to Line(1)
- Attach X3 to X2
- Attach X1, H2, and H4 to Load(1)
- Attach H1 and H3 to Line(2) and Load(2)

**C2**

Connecting Transformer:

- Attach X4 and X2 to Line(1)
- Attach X3, X1, H2 and H4 to Load(1)
- Attach H1 and H3 to Line(2) and Load(2)

**D2**