Wiring diagrams

CE/CES/CERO 12-18, 208 V & 240 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 12 208/240 V, CE/CES/CERO 15 208/240 V, CE/CES/CERO 18 208/240 V

Approved: Wes Palmer 01/17/20

For 208 V, wires 121 & 123 connect to X8-3. For 240 V, they connect to X8-4.

A1 Control board
B1 Thermistor
D1 Delay timer
F1-F3 Fuse
FS1 Flow sensor
G1 Main power light
G2 On/off power light
P1 Low pressure switch
R1-R3 Resistance element
S1 On/off switch
S2 Temperature toggle switch
T1-T3 Thermostat
TR1-TR3 Triac
TX1 Transformer
X0 Main terminal block
X1 Ground terminal
X4 Fuse block
X5 Thermostat block
X6 Element block
X7 Triac block
X8 Transformer terminal block 1

CE 12-18, 208 & 240 V Delta

This diagram is valid for CE 12 208 V, CE 15 208 V, CE 18 208 V, CE 12 240 V, CE 15 240 V, & CE 18 240 V.
CE/CES/CERO 12–18 400 & 480 V Wye wiring diagram

This diagram is valid for: CE/CES/CERO 12 400/480 V Wye, CE/CES/CERO 15 400/480 V Wye, & CE/CES/CERO 18 400/480 V Wye

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>A1</td>
<td>Control board</td>
</tr>
<tr>
<td>B1</td>
<td>Thermistor</td>
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<tr>
<td>D1</td>
<td>Delay timer</td>
</tr>
<tr>
<td>F1-F3</td>
<td>Fuse</td>
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<tr>
<td>F51</td>
<td>Flow sensor</td>
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<tr>
<td>G1</td>
<td>Main power light</td>
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<tr>
<td>G2</td>
<td>On/off power light</td>
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<tr>
<td>P1</td>
<td>Low pressure switch</td>
</tr>
<tr>
<td>R1-R3</td>
<td>Resistance element</td>
</tr>
<tr>
<td>S1</td>
<td>On/off switch</td>
</tr>
<tr>
<td>S2</td>
<td>Temperature toggle switch</td>
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<tr>
<td>T1-T3</td>
<td>Thermostat</td>
</tr>
<tr>
<td>TR1-TR3</td>
<td>Triac</td>
</tr>
<tr>
<td>TX1</td>
<td>Transformer</td>
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<tr>
<td>X0</td>
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<tr>
<td>X1</td>
<td>Ground terminal</td>
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<td>X4</td>
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<td>Thermostat block</td>
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<tr>
<td>X7</td>
<td>Element block</td>
</tr>
<tr>
<td>X8</td>
<td>Transformer terminal block 1</td>
</tr>
</tbody>
</table>
CE/CES/CERO 24–36, 208 V & 240 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 24 208/240 V, CE/CES/CERO 27 208/240 V, & CE/CES/CERO 36 208/240 V

A1 Control board
B1 Thermistor
D1 Delay timer
F1-F6 Fuse
FS1 Flow sensor
G1 Main power light
G2 On/off power light
P1 Low pressure switch
R1-R6 Resistance element
S1 On/off switch
S2 Temperature toggle switch
T1-T6 Thermostat
TR1-TR6 Triac
TX1 Transformer
X0 Main terminal block
X1 Ground terminal
X4 Fuse block
X5 Thermostat block
X6 Element block
X7 Triac block
X8 Transformer terminal block 1

For 208 V, wires 121 & 123 connect to X8-3. For 240 V, they connect to X8-4.

Approved: Wes Palmer 01/17/20
CE/CES/CERO 24–36, 400 V & 480 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 24 400/480 V, CE/CES 27 400/480 V, CERO 27 480 V, & CE/CES/CERO 36 400/480 V

A1 Control board  R1-R6 Resistance element  X4 Fuse block
B1 Thermistor  S1 On/off switch  X5 Thermostat block 1
D1 Delay timer  S2 Temperature toggle switch  X6 Element block 1
F1-F3 Fuse  T1-T6 Thermostat  X7 Element block 2
FS1 Flow sensor  TR1-TR3 Triac  X8 Thermostat block 2
G1 Main power light  TX1 Transformer  X9 Triac block
G2 On/off power light  X0 Main terminal block  X10 Transformer terminal block 1
P1 Low pressure switch  X1 Ground terminal
CE/CES/CERO 24, CE/CES/CERO 36 575 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 24 575 V, & CE/CES/CERO 36 575 V

Approved: Wes Palmer 01/17/20

A1 Control board
B1 Thermistor
D1 Delay timer
F1-F3 Fuse
FS1 Flow sensor
G1 Main power light
G2 On/off power light
P1 Low pressure switch

R1-R6 Resistance element
S1 On/off switch
S2 Temperature toggle switch
T1-T6 Thermostat
TR1-TR3 Triac
TX1 Transformer
X0 Main terminal block
X1 Ground terminal
X4 Fuse block
X5 Thermostat block 1
X6 Element block 1
X7 Element block 2
X8 Thermostat block 2
X9 Triac block
X10 Transformer terminal block 1
CE/CES/CERO 48–72, 208 V & 240 V Delta wiring diagram

This diagram is valid for: CE/CES 48 208 V, CERO 48 208 V, CE/CES 54 208/240 V, CERO 54 240 V, CE/CES 60 208/240 V, CE/CES 72 208/240 V, & CERO 72 240 V.

Approved: Wes Palmer 01/17/20
CE/CES/CERO 48–72, 400 V & 480 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 48 400/480 V, CES/CES 54 400/480 V, CERO 54 480 V, CE/CES 60 400/480 V, CE/CES 72 480 V, & CERO 72 400/480 V

Approved: Wes Palmer 01/17/20
CE/CES/CERO 48, CE/CES/CERO 72 575 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 48 575 V, CE/CES/CERO 72 575 V

Approved: Wes Palmer 01/17/20

A1  Control board  R1-R12  Resistance element  X4  Fuse block
B1  Thermistor  S1  On/off switch  X5  Thermostat block 1
D1  Delay timer  S2  Temperature toggle switch  X6  Element block 1
F1-F6  Fuse  T1-T12  Thermostat  X7  Element block 2
FS1  Flow sensor  TR1-TR6  Triac  X8  Thermostat block 2
G1  Main power light  TX1  Transformer  X9  Triac block
G2  On/off power light  X0  Main terminal block  X10  Transformer terminal block 1
P1  Low pressure switch  X1  Ground terminal
CE/CES/CERO 120, CE/CES/CERO 144 400 V & 480 V Delta wiring diagram (page 1)

This diagram is valid for: CE/CES/CERO 120 400/480 V, CE/CES/CERO 144 400/480 V

Approved: Wes Palmer 01/17/20
CE/CES/CERO 120, CE/CES/CERO 144 400 V & 480 V Delta wiring diagram (page 2)

This diagram is valid for: CE/CES/CERO 120 400/480 V, CE/CES/CERO 144 400/480 V.
CE/CES/CERO 144 575 V Delta wiring diagram (page 1)

This diagram is valid for CE/CES/CERO 144 575 V

Approved: Wes Palmer 01/17/20

A1  Control board 1  S1  On/off switch  X7  Element block 2
A2  Control board 2  S2  Temperature toggle switch  X8  Thermostat block 2
B1  Thermistor 1  T1-T24  Thermostat  X9  Triac block
B2  Thermistor 2  TR1-TR12  Triac  X10  Transformer terminal block 1
D1  Delay timer  TX1  Transformer  X11  Transformer terminal block 2
F1-F12  Fuse  X0  Main terminal block
F51  Flow sensor 1  X1  Ground terminal
F52  Flow sensor 2  X2  Secondary terminal block 1
G1  Main power light  X3  Secondary terminal block 2
G2  On/off power light  X4  Fuse block
P1  Low pressure switch  X5  Thermostat block 1
R1-R24  Resistance element  X6  Element block 1

HX Flow Layout

Delta Configuration

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CE 144, 575 V Delta (Page 1)

This diagram is valid for CE 144 575 V.
This diagram is valid for: CE/CES/CERO 144 575 V