Specifications

**CNS Trend & Plus Surface-Mounted Convection Heaters**

**Description**

CNS Trend and Plus are a surface-mounted convection heaters that can be used as a replacement for traditional baseboard heaters or as a stand-alone heating system. The built-in thermostat can be used to control a single CNS or multiple CNS units can be placed strategically in larger spaces and their temperature settings adjusted individually. CNS Plus heaters feature a backlit digital thermostat/display. CNS heaters may be wired to use an existing wall-mounted thermostat. Two pins in the control casing can be used to fix the temperature controller at a setting or limit the temperature setting range. CNS frost protection setting will maintain a room above freezing temperature. Overheat protection is built into the unit.

The external casing is Alpine White in color and is made from stove enameled sheet steel with plastic trim.

- Thermostat built into unit
- CNS Plus features backlit digital thermostat/display
- Selectable temperature range from 45°F – 86°F
- Draft free, silent operation
- Frost protection setting
- Three-year warranty

**Applications**

- Bathrooms
- 3-Season Porches
- Bedrooms
- Cabins
- Basements
- Mobile Homes
- Playrooms
- Offices
- Baseboard Heater Replacement

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>CNS 100-1 Trend</th>
<th>CNS 150-2 Trend</th>
<th>CNS 100-1 Plus</th>
<th>CNS 150-1 Plus</th>
<th>CNS 100-2 Plus</th>
<th>CNS 150-2 Plus</th>
<th>CNS 200-2 Plus</th>
<th>CNS 300-2 Plus</th>
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</thead>
<tbody>
<tr>
<td>Item number</td>
<td>201991</td>
<td>201992</td>
<td>201994</td>
<td>201996</td>
<td>201997</td>
<td>201998</td>
<td>201999</td>
<td>202000</td>
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<tr>
<td>Voltage</td>
<td>120 V</td>
<td>240 V or 208 V</td>
<td>120 V</td>
<td>240 V or 208 V</td>
<td>240 V or 208 V</td>
<td>240 V or 208 V</td>
<td>240 V or 208 V</td>
<td>240 V or 208 V</td>
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<tr>
<td>Wattage</td>
<td>1000 W</td>
<td>1500 W</td>
<td>1000 W</td>
<td>1500 W</td>
<td>1500 W</td>
<td>1500 W</td>
<td>2000 W</td>
<td>3000 W</td>
</tr>
<tr>
<td>Amperage</td>
<td>8.3 A</td>
<td>6.3 A</td>
<td>8.3 A</td>
<td>12.5 A</td>
<td>4.2 A</td>
<td>6.3 A</td>
<td>3.6 A</td>
<td>8.3 A</td>
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<tr>
<td>Btu/hr</td>
<td>3412</td>
<td>5118</td>
<td>5118</td>
<td>3412</td>
<td>5118</td>
<td>5118</td>
<td>3839</td>
<td>6824</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>Power cord with plug, hard-wired connection possible</td>
<td>Junction box, rear</td>
<td>Power cord with plug, hard-wired connection possible</td>
<td>Junction box, rear</td>
<td>Power cord with plug, hard-wired connection possible</td>
<td>Junction box, rear</td>
<td>Junction box, rear</td>
<td>Junction box, rear</td>
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<tr>
<td>Required circuit breaker size 1</td>
<td>15 A</td>
<td>10 A</td>
<td>15 A</td>
<td>15 A</td>
<td>10 A</td>
<td>10 A</td>
<td>15 A</td>
<td>15 A</td>
</tr>
<tr>
<td>Required wire size (copper)</td>
<td>14 AWG</td>
<td>14 AWG</td>
<td>14 AWG</td>
<td>14 AWG</td>
<td>14 AWG</td>
<td>14 AWG</td>
<td>14 AWG</td>
<td>14 AWG</td>
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<tr>
<td>Temperature range</td>
<td>41 °F–86 °F (5 °C–30 °C)</td>
<td>38 °F–86 °F (3 °C–30 °C)</td>
<td>38 °F–86 °F (3 °C–30 °C)</td>
<td>38 °F–86 °F (3 °C–30 °C)</td>
<td>38 °F–86 °F (3 °C–30 °C)</td>
<td>38 °F–86 °F (3 °C–30 °C)</td>
<td>38 °F–86 °F (3 °C–30 °C)</td>
<td>38 °F–86 °F (3 °C–30 °C)</td>
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<tr>
<td>Frost protection setting</td>
<td>45 °F (7 °C)</td>
<td>45 °F (7 °C)</td>
<td>45 °F (7 °C)</td>
<td>45 °F (7 °C)</td>
<td>45 °F (7 °C)</td>
<td>45 °F (7 °C)</td>
<td>45 °F (7 °C)</td>
<td>45 °F (7 °C)</td>
</tr>
<tr>
<td>Height</td>
<td>17¾ (450 mm)</td>
<td>17¾ (450 mm)</td>
<td>17¾ (450 mm)</td>
<td>17¾ (450 mm)</td>
<td>17¾ (450 mm)</td>
<td>17¾ (450 mm)</td>
<td>17¾ (450 mm)</td>
<td>17¾ (450 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>16¾ (426 mm)</td>
<td>22¾() (582 mm)</td>
<td>16¾ (426 mm)</td>
<td>22¾() (582 mm)</td>
<td>16¾ (426 mm)</td>
<td>22¾() (582 mm)</td>
<td>22¾() (582 mm)</td>
<td>29½ (738 mm)</td>
</tr>
<tr>
<td>Depth</td>
<td>3¼ (80 mm)</td>
<td>3¼ (80 mm)</td>
<td>3¼ (80 mm)</td>
<td>3¼ (80 mm)</td>
<td>3¼ (80 mm)</td>
<td>3¼ (80 mm)</td>
<td>3¼ (80 mm)</td>
<td>41½ (1050 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>10.1 lb (4.6 kg)</td>
<td>13.2 lb (6.0 kg)</td>
<td>10.1 lb (4.6 kg)</td>
<td>13.2 lb (6.0 kg)</td>
<td>10.1 lb (4.6 kg)</td>
<td>13.2 lb (6.0 kg)</td>
<td>13.2 lb (6.0 kg)</td>
<td>17.0 lb (7.7 kg)</td>
</tr>
<tr>
<td>Room size estimate 2</td>
<td>100 sq.ft.</td>
<td>150 sq.ft.</td>
<td>100 sq.ft.</td>
<td>150 sq.ft.</td>
<td>100 sq.ft.</td>
<td>150 sq.ft.</td>
<td>200 sq.ft.</td>
<td>300 sq.ft.</td>
</tr>
</tbody>
</table>

1. This is our recommendation as the manufacturer. Check local codes for compliance if necessary.
2. Based on average insulation

**Certified to ANSI/UL Std. 2021**

**Conforms to CAN/CSA Std. 22.2 No. 46**

**Technical Data**

- **Model**: CNS 100-1 Trend, CNS 150-2 Trend, CNS 100-1 Plus, CNS 150-1 Plus, CNS 100-2 Plus, CNS 150-2 Plus, CNS 200-2 Plus, CNS 300-2 Plus
- **Item number**: 201991, 201992, 201994, 201996, 201997, 201998, 201999, 202000
- **Voltage**: 120 V, 240 V or 208 V, 120 V, 240 V or 208 V, 240 V or 208 V, 240 V or 208 V, 240 V or 208 V, 240 V or 208 V
- **Wattage**: 1000 W, 1500 W, 1125 W, 1000 W, 1500 W, 750 W, 1125 W, 1000 W, 1500 W, 2000 W, 1500 W, 3000 W, 2250 W
- **Amperage**: 8.3 A, 6.3 A, 5.4 A, 8.3 A, 12.5 A, 4.2 A, 6.3 A, 3.6 A, 8.3 A, 7.2 A, 12.5 A, 10.8 A
- **Btu/hr**: 3412, 5118, 3839, 3412, 2559, 5118, 3839, 5118, 6824, 5118, 10236, 7677
- **Electrical connection**: Power cord with plug, hard-wired connection possible, junction box, rear, junction box, rear, junction box, rear, junction box, rear
- **Required circuit breaker size**: 15 A, 10 A, 15 A, 10 A, 10 A, 15 A
- **Required wire size**: 14 AWG, 14 AWG, 14 AWG, 14 AWG, 14 AWG
- **Temperature range**: 41 °F–86 °F (5 °C–30 °C)
- **Frost protection setting**: 45 °F (7 °C)
- **Height**: 17¾ (450 mm)
- **Width**: 16¾ (426 mm), 22¾\(\) (582 mm), 16¾ (426 mm), 22¾\(\) (582 mm), 16¾ (426 mm), 22¾\(\) (582 mm), 29½ (738 mm), 41½ (1050 mm)
- **Depth**: 3¼ (80 mm)
- **Weight**: 10.1 lb (4.6 kg), 13.2 lb (6.0 kg), 10.1 lb (4.6 kg), 13.2 lb (6.0 kg), 10.1 lb (4.6 kg), 13.2 lb (6.0 kg), 17.0 lb (7.7 kg), 24.0 lb (10.9 kg)
- **Room size estimate**: 100 sq.ft, 150 sq.ft, 100 sq.ft, 150 sq.ft, 100 sq.ft, 150 sq.ft, 200 sq.ft, 300 sq.ft

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1 This is our recommendation as the manufacturer. Check local codes for compliance if necessary.

2 Based on average insulation
### Specification

Contractor shall supply and install Stiebel Eltron CNS Trend or Plus electric heater(s) of the wattage and voltage specified on the plan. Heater(s) shall be surface-mounted fan-less convection type. Heater(s) shall have a body constructed of stove enameled sheet steel in Alpine White color. Heater(s) shall have a selectable temperature range of 41 °F to 86 °F (5 °C to 30 °C), and a frost protection setting which switches on the heating element automatically if the room temperature drops below the frost protection temperature of 45 °F (5 °C). CNS Plus models shall be equipped with an electronic backlit digital thermostat/display. Heater(s) shall be capable of control with either built-in thermostat or wired to an existing wall thermostat. Heater(s) shall be mounted with a minimum clearance from the finished floor and from the left and right sides of at least 4\(\frac{1}{2}\)”, a minimum clearance to the top of the heater of at least 10\"”, and a minimum clearance to the back of the heater of at least 1”. Heater(s) shall have an electrical cable entrance on the right side. Heater(s) shall be ETL listed to conform to ANSI/UL Std. 1278 and certified to CAN/CSA C22.2 No. 46.

### Dimensions & clearances

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Width</th>
<th>CNS 100-1 Trend</th>
<th>CNS 100-1 Plus</th>
<th>CNS 150-1 Trend</th>
<th>CNS 150-1 Plus</th>
<th>CNS 200-2 Plus</th>
<th>CNS 300-2 Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>a20</td>
<td></td>
<td>16(\frac{1}{2})” (426 mm)</td>
<td>22(\frac{1}{4})” (582 mm)</td>
<td>29(\frac{1}{4})” (738 mm)</td>
<td>41(\frac{1}{4})” (1050 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b01</td>
<td>Electrical entry</td>
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<td></td>
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</tr>
<tr>
<td>i13</td>
<td>Wall mounting bracket</td>
<td>Horizontal spacing</td>
<td>7(\frac{1}{4})” (179 mm)</td>
<td>13(\frac{1}{4})” (335 mm)</td>
<td>19(\frac{1}{4})” (491 mm)</td>
<td>31(\frac{1}{8})” (803 mm)</td>
<td></td>
</tr>
</tbody>
</table>

Conforms to ANSI/UL Std. 1278
Certified to CAN/CSA Std. 22.2 No. 46

ISO 9001 CERTIFIED