This vertical design N-coil is a furnace coil designed to provide the highest standards of reliability and durability. The coils are available for use in Puron®, R-410A refrigerant and R-22 systems.

Both designs have a painted case and come with factory-installed thermostatic expansion valves (TXV). The coils are offered in different width configurations for use in multiple installation applications. Additionally, they are offered in a transition configuration, a design which simplifies making field-supplied transition duct configurations. Easy maintenance is provided as the coil slides out of the cabinet after removing the access door and service panel. The coils are available in sizes 018 through 061 (1-1/2 to 5 tons).

Transition coil models CNPVT and CNRVT are designed for use with one size smaller width furnaces without field modifications. CN(P,R)V(P,T) and CNPVU are available in tin-plated copper coil models. These coils are built with special hairpins which are tin-plated to resist both general pitting corrosion and excessive indoor corrosion-formicary corrosion. (Formicary corrosion is an industry phenomenon.)

**STANDARD FEATURES**

**Water Management** — These coil designs do an excellent job of water management. The coils are designed to avoid water blow-off into the ducts by directing condensate away from the fins and into the drain pan.

**Durable Condensate Pan** — Each coil is equipped with a corrosion-resistant condensate drain pan. The condensate drain pan is designed with a slope to help ensure proper drainage, improved moisture removal, and home comfort.

**Compact Design** — Unique design offers as much as 2 to 4 in. (51 to 102 mm) less in height to aid in tight installations.

**Brass Inserts** — Every condensate pan features two 3/4 in. female threaded brass insert connections. The unique brass inserts provide for a leak-free condensate line connection to prevent water damage.

**Refrigerant Connections** — The coils are provided with proven sweat-connections for leak-free operation maintaining system reliability.

**Burst Pressures** — These coils meet or exceed burst pressure of 2100 psi which is at least three to five times the pressure they will see in actual application.

**Thermostatic Expansion Valves (TXV)** — All Carrier® coils have refrigerant-specific factory-installed TXVs.

**Teflon Ring** — The ring, installed inside the liquid line connection at the TXV, is the best option for preventing refrigerant leaks and future service calls. Teflon works with both Puron, R-410A, the environmentally friendly refrigerant and R-22 refrigerants.

**Protective Tube Sheets** — Protect the durable copper tubing from being damaged during the manufacturing and installation process.
### MODEL NUMBER NOMENCLATURE

<table>
<thead>
<tr>
<th>Product</th>
<th>Variations</th>
</tr>
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<tbody>
<tr>
<td>C = Coil</td>
<td>A = Basic</td>
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<table>
<thead>
<tr>
<th>Type</th>
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<td>C = Copper</td>
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<td>T = Tin Plated Copper</td>
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<td>R = R 22 TXV</td>
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<td>17 = 17 in. / 432mm</td>
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<td>21 = 21 in. / 533mm</td>
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<td>24 = 24 in. / 610mm</td>
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<tr>
<td>U = Uncased</td>
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<td>T = Transition</td>
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**CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI**
### DIMENSIONS - CN(P,R)VP

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<th>A in. (mm)</th>
<th>B in. (mm)</th>
<th>C in. (mm)</th>
<th>D in. (mm)</th>
<th>E in. (mm)</th>
<th>F in. (mm)</th>
<th>SHIPPING WT.</th>
<th>Non-Coated Hairpins (C)</th>
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## DIMENSIONS (cont.)

### DIMENSIONS - CNPVU

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<th>G (in) (mm)</th>
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### DIMENSIONS - CNRVU

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### DIMENSIONS - CN(P,R)VT

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**NOTE:** This coil suitable for use on furnace width one size down from coil casing width.
## COOLING CAPACITIES (MBH) - PURON® REFRIGERANT

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</tbody>
</table>

**Legend:**
- **CFM**: Cubic Ft. per Minute
- **EWB**: Entering Wet Bulb
- **SHC**: Gross Sensible Capacity
- **BF**: Bypass Factor
- **TC**: Gross Cooling Capacity
- **TCV**: Total Cooling Capacity

See notes on page 8.
### PERFORMANCE DATA (cont.)

#### COOLING CAPACITIES (MBH) - PURON® REFRIGERANT

<table>
<thead>
<tr>
<th>CNPV UNIT SIZE</th>
<th>INDOOR COIL AIR</th>
<th>SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)</th>
<th>30 (-1)</th>
<th>35 (2)</th>
<th>40 (4)</th>
<th>45 (7)</th>
<th>50 (10)</th>
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<tbody>
<tr>
<td></td>
<td>CFM</td>
<td>EWB</td>
<td>SC</td>
<td>SHC</td>
<td>BF</td>
<td>SC</td>
<td>SHC</td>
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<td>0.00</td>
<td>82.60</td>
<td>40.10</td>
<td>0.00</td>
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<td>46.00</td>
<td>0.05</td>
<td>68.00</td>
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<td>77.80</td>
<td>48.60</td>
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<td>0.09</td>
</tr>
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<td>46.00</td>
<td>0.00</td>
<td>68.10</td>
<td>33.10</td>
<td>0.00</td>
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<td>62.30</td>
<td>50.00</td>
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<td>94.30</td>
<td>46.00</td>
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<td>53.10</td>
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<tr>
<td>4324 4000</td>
<td>72</td>
<td>62.30</td>
<td>57.70</td>
<td>0.09</td>
<td>62.70</td>
<td>50.90</td>
<td>0.09</td>
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<tr>
<td>4324 6024</td>
<td>72</td>
<td>62.30</td>
<td>57.70</td>
<td>0.09</td>
<td>62.70</td>
<td>50.90</td>
<td>0.09</td>
</tr>
</tbody>
</table>

#### Legend:
- **CFM** – Cubic Ft. per Minute
- **EWB** – Entering Wet Bulb
- **LWB** – Leaving Wet Bulb
- **TC** – Gross Cooling Capacity 1000 Btuh
- **BF** – Bypass Factor
- **MBH** – 1000 Btuh

See notes on page 8.
NOTES:
1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:
   Leaving \( \text{db} = \) entering \( \text{db} \) - sensible heat cap. 
   \[ \left( \frac{1.09 \times \text{CFM}}{4.5 \times \text{CFM}} \right) \]
   Leaving \( \text{wb} = \) wb corresponding to enthalpy of air leaving coil (\( h_{L\text{WB}} \))
   \[ h_{L\text{WB}} = \frac{h_{E\text{WB}} - \text{total capacity (Btuh)}}{4.5 \times \text{CFM}} \]
   Where \( h_{E\text{WB}} = \) enthalpy of air entering coil
3. SHC is based on 80°F (27°C) \( \text{db} \) temperature of air entering the evaporator coil.
   Below 80°F (27°C) \( \text{db} \), subtract (Correction Factor x CFM) from SHC.
   Above 80°F (27°C) \( \text{db} \), add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on 10°F (-12°C) superheat leaving coil and use of thermostatic expansion valve (TXV) device.
7. All units have sweat suction-tube connection and a liquid-tube connection. For 1-1/8-in. system suction tube, 3/4 x 1-1/8-in. suction tube connection adapter is available as accessory.
8. The CNPVP, CNPVT, and CNPVU coils can be used in any properly designed system using Puron® refrigerant.
9. The CNRVP, CNRVU, and CNRVU coils can be used in any properly designed system using R-22 refrigerant.
10. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
11. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

<table>
<thead>
<tr>
<th>BYPASS FACTOR</th>
<th>ENTRING AIR DRY BULB TEMPERATURE °F (°C)</th>
<th>Correction Factor</th>
</tr>
</thead>
<tbody>
<tr>
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<td>79 (26)</td>
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</table>

Use formula shown below

Interpolation is permissible.
Correction Factor = 1.09 x (1 - BF) x (db - 80)
## PERFORMANCE DATA (cont.)

### COOLING CAPACITIES (MBH) - R-22 REFRIGERANT

<table>
<thead>
<tr>
<th>CNRV UNIT SIZE</th>
<th>INDOOR COIL AIR</th>
<th>SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C)</th>
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<td></td>
<td>CFM</td>
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</tr>
<tr>
<td></td>
<td>EWB</td>
<td>TC</td>
</tr>
<tr>
<td>1814</td>
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<tr>
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<td>72 (22)</td>
</tr>
<tr>
<td></td>
<td>750</td>
<td>72 (22)</td>
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<tr>
<td></td>
<td>2414</td>
<td>600</td>
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</table>

Legend:
- CFM – Cubic Ft. per Minute
- EWB – Entering Wet Bulb
- SHC – Gross Sensible Capacity 1000 Btuh
- BF – Bypass Factor
- MBH – 1000 Btuh

See notes previous page.
## PERFORMANCE DATA (cont.)

### COIL STATIC PRESSURE DROP (in. w.c.) PURON® and R-22 REFRIGERANTS

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<th>UNIT SIZE</th>
<th>Standard CFM</th>
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## ACCESSORIES

### EMPTY COIL CASING ACCESSORY FOR UNCASED N-COIL

<table>
<thead>
<tr>
<th>ACCESSORY PART NUMBER</th>
<th>NOMINAL COIL SIZES</th>
<th>DIMENSIONS in (mm)</th>
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<td>H</td>
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<tr>
<td>KCAKC2612ECC</td>
<td>CN*VU1814, 2414, 3014,</td>
<td>17</td>
</tr>
<tr>
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<td>(432)</td>
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<tr>
<td>KCAKC2712ECC</td>
<td>CN*VU2417, 3017, 3617</td>
<td>17</td>
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<tr>
<td></td>
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<td>(432)</td>
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<tr>
<td>KCAKC2808ECC</td>
<td>CN*VU3621, 4221, 4821</td>
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<td>CN*VU4824, 6024</td>
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### COUPLING KIT ACCESSORY FOR UNCASED VERTICAL N-COIL

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<th>DESCRIPTION</th>
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<tr>
<td>KCART0101MHA</td>
<td>CN*VU2417</td>
<td>5/8−in. Mechanical Connection Kit</td>
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<tr>
<td>KCART0101MHA</td>
<td>CN*VU3617, 4821</td>
<td>3/4−in. Mechanical Connection Kit</td>
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