How to read Carrier product designations

Each Carrier product is identified by a series of numbers and letters that are designed to quickly and easily communicate the major characteristics of the product. Exceptions to this designation may be determined from the product data. For example, a sixty-ton gas/electric rooftop package, 208/230 volts, three-phase, is designated like this:

```
48  A J D  060  5
```

The first two numbers are a code for the basic type of unit. In this example, “48” denotes “gas/electric rooftop package.”

The code for other basic types is as follows:

- 5 & 6: Compressor
- 5 & 7: Water-Cooled Condensing Unit
- 9: Condenser
- 10: Direct-Expansion Liquid Coolers
- 16: Absorption Chillers
- 19: Centrifugal Chillers
- 28: Coils
- 30: Reciprocating Chillers
- 31: Air Cleaners; Filter Kits
- 33: System/Controls
- 35: VAV Box
- 36: Induction Units
- 37: VAV Terminal
- 39: Condensing Units
- 20: Central Station Air-Handling Unit
- 40: Packaged Air Handlers, Commercial; Fan Coils, Residential
- 42: Fan Coils, Commercial
- 45: Fan Powered VAV Terminals
- 48: Gas/Electric Rooftop Package
- 50: Electric/Electric Rooftop Package and Heat Pump
- 54: Water Source Heat Pump
- 55: Vertical Packaged Air Cooling
- 51: Room Unit
- 52: Packaged Terminal
- 53: Duct-Free Split Systems
- 58: Furnaces
- 62: Heat/Energy Recovery Ventilators
- 90: Single-Package Cooling Units, Industrial/Marine Units

These letters identify unit configuration and/or heat options.

This three-number sequence normally shows the nominal tonnage. “060” means “sixty tons.” The code for other tonnages is as follows:

- Commercial:
  - 004: 3 tons
  - 005: 4 tons
  - 006: 5 tons
  - 007: 6 tons
  - 009: 7-1/2 tons
  - 009: 8-1/2 tons
  - 012: 10 tons
  - 014: 12-1/2 tons
  - 015: 12-1/2 tons
  - 016: 15 tons
  - 017: 15 tons
  - 020: 18 tons
  - 024: 20 tons
  - 025: 20 tons
  - 028: 25 tons
  - 034: 30 tons
  - 044: 40 tons
  - 054: 50 tons
  - 064: 60 tons
  - 084: 80 tons
  - 094: 90 tons
  - 104: 100 tons

- Residential:
  - 018 - 1-1/2 tons
  - 024: 2-1/2 tons
  - 030: 2-1/2 tons
  - 036: 3 tons
  - 042: 3-1/2 tons
  - 048: 4 tons
  - 060: 5 tons

This last number describes the electrical characteristics. “5” is the code for “208/230 volts, 3-phase.” The other electrical codes are as follows:

- 3: 208/230 - 1 - 60
- 4: 208 - 3 - 60
- 5: 208/230 - 3 - 60
- 6: 460 - 3 - 60

Note:

Other voltages are available. See the individual product pages in this volume for specific detail.

CARRIER DATE CODES 1970 1980

| JANUARY | A | N |
| FEBRUARY | B | P |
| MARCH | C | Q |
| APRIL | D | R |
| MAY | E | S |
| JUNE | F | T |
| JULY | G | U |
| AUGUST | H | V |
| SEPTEMBER | J | W |
| OCTOBER | K | X |
| NOVEMBER | L | Y |
| DECEMBER | M | Z |

Residential Furnaces:
This sequence shows nominal Btu input, e.g., "060" means 60,000 Btu input. The last two digits of the 16-position gas furnace part number indicate nominal airflow at 0.5 ESP, e.g., "12" means 1,200 cfm at 0.5 ESP.

Note:
When a unit covers a range of sizes beginning with a fraction of a ton, the three-number sequence refers to BTU rather than tons. For example, 50RHR size 009 is 3/4 ton, or 0,000 BTUs, and 50RHR size 036 is 3 tons or 36,000 BTUs.
How to read Carrier product designations

Each Carrier product is identified by a series of numbers and letters that are designed to quickly and easily communicate the major characteristics of the product. Exceptions to this designation may be determined from the product data. For example, a three-ton condensing unit, 208/230 volts, one-phase, is designated like this:

```
38  T  N  036  3
```

The first two numbers are a code for the basic type of unit. In this example, "38" denotes "condensing unit." The code for other basic types is as follows:

- 5 & 6: Compressor
- 5 & 7: Water-Cooled Condensing Unit
- 9: Condenser
- 10: Direct-Expansion Liquid Coolers
- 16: Absorption Chillers
- 17: Open Centrifugal
- 19: Centrifugal Chillers
- 23: Screw Chillers
- 28: Coils
- 30: Reciprocating Chillers
- 31: Electronic Air Cleaners
- 33: Computerized Damper System
- 35: VAV Box
- 36: Induction Units
- 37: VAV Terminal
- 38: Condensing Units
- 39: Central Station Air Handling Unit
- 40: Packaged Air Handlers
- 42: Fan Coil Unit
- 45: Fan Powered VAV Terminals
- 48: Gas/Electric Rooftop Package
- 49: Humidifiers
- 51: Room Unit
- 52: Packaged Terminal
- 53: Duct-free Split Systems
- 58: Furnaces
- 60: Water Heater
- 64: Gas/Gas Rooftop Package

Note:
On heavy refrigeration, only the first four indicators are defined on this page. See the individual product pages in this volume for specific detail.

The first letter indicates the design series and is changed with each design upgrade. (Note: "A" is not necessarily the first of a sequence.)

The second letter (and third letter where applicable) expands upon the identification of the design sequence.

This three-number sequence normally shows the tonnage. "036" means "three tons." The code for other tonnages is as follows:

- Commercial: 004: 3 tons
- 005: 4 tons
- 006: 5 tons
- 007: 6 tons
- 008: 7-1/2 tons
- 009: 8-1/2 tons
- 010: 10 tons
- 011: 12-1/2 tons
- 015: 15 tons
- 020: 20 tons
- 025: 25 tons
- 030: 30 tons
- 040: 40 tons
- 050: 50 tons
- 060: 60 tons
- 080: 80 tons
- 090: 90 tons
- 100: 100 tons

Residential:
- 018: 1-1/2 tons
- 024: 2 tons
- 030: 2-1/2 tons
- 036: 3 tons
- 042: 3-1/2 tons
- 048: 4 tons
- 060: 5 tons

Residential Furnaces:
This sequence shows nominal Btu input.
Ex. "660" means "60,000 Btu input." The last two digits of the 16-position gas furnace part number indicate nominal airflow at .5 ESP. Ex. "12" means "1200 CFM at .5 ESP."

The last number describes the electrical characteristics. "3" is the code for "208/230 volts, 1-phase." The other electrical codes are as follows:

- Commercial: 3-208/230 - 1 - 60
- 4-208 - 3 - 60
- 5-208/230 - 3 - 60
- 6-460 - 3 - 60

Note:
Other voltages, Hertz and phases are available. See the individual product pages in this volume for specific detail.

Carrier residential Fan Coils, Evaporator Coils, Boilers, and Heat Recovery Ventilators each have their own part number nomenclature systems, each beginning with a letter as designated below:

- C = Evaporator Coil
- F = Fan Coil
- B = Boiler
- V = Heat Recovery Ventilator

For the complete nomenclature systems of these products, refer to the corresponding Product Data publication.

Note:
On fractional sized units, this refers to BTUs rather than tons, i.e., 50HC048 is a 48,000 BTU water source heat pump. On 39-Serie air handlers, this refers to the coil face area, i.e., a 39ED39 is a draw-thru air handler with a 39 sq. ft. coil face area.
### TRANE

#### EQUIPMENT DATES

<table>
<thead>
<tr>
<th>Year</th>
<th>Digit or Letter</th>
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<tbody>
<tr>
<td>1976</td>
<td>6</td>
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<tr>
<td>1977</td>
<td>7</td>
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<td>1978</td>
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<tr>
<td>1980</td>
<td>0,A</td>
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<td>1981</td>
<td>T</td>
</tr>
<tr>
<td>1982</td>
<td>U</td>
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<td>1983</td>
<td>W</td>
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<td>B</td>
</tr>
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<td>1988</td>
<td>C</td>
</tr>
<tr>
<td>1989</td>
<td>D</td>
</tr>
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</table>

2006

- ** Prior to 1980: seventh digit **
- ** Prior to 1983: seventh digit or letter **
- ** After 1983: first letter **

#### Example

- **F7016427**
- **This is 1991 unit**

### GAS

**Suction largest line**

### REFRIGERANT

**Discharge smallest line**

### LEFT WRAP

**W/O STUBS**

### RIGHT WRAP

**W/STUBS**

### OUTDOOR TEMP

**SEN 0182** **black wires**

### COIL SENSOR

**SEN 0347** **yellow wires**
## Model Number Description

<table>
<thead>
<tr>
<th>DIGIT 1</th>
<th>UNIT TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Self-Contained (Packaged Rooftop)</td>
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</table>

<table>
<thead>
<tr>
<th>DIGIT 2</th>
<th>UNIT FUNCTION</th>
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</thead>
<tbody>
<tr>
<td>E</td>
<td>DX Cooling, Electric Heat</td>
</tr>
<tr>
<td>F</td>
<td>DX Cooling, Natural Gas Heat</td>
</tr>
<tr>
<td>L</td>
<td>DX Cooling, Hot Water Heat</td>
</tr>
<tr>
<td>S</td>
<td>DX Cooling, Steam Heat</td>
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<tr>
<td>X</td>
<td>DX Cooling, No Heat, Extended Casing</td>
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<table>
<thead>
<tr>
<th>DIGIT 3</th>
<th>UNIT AIRFLOW</th>
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<tr>
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<td>Single Zone</td>
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<tr>
<th>DIGIT 4</th>
<th>DEVELOPMENT SEQUENCE</th>
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<tbody>
<tr>
<td>G</td>
<td>Seventh</td>
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<table>
<thead>
<tr>
<th>DIGITS 5,6,7</th>
<th>NOMINAL CAPACITY</th>
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<tbody>
<tr>
<td>90</td>
<td>90 Tons</td>
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<tr>
<td>105</td>
<td>105 Tons</td>
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<tr>
<td>115</td>
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<td>130</td>
<td>130 Tons</td>
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<th>DIGIT 8</th>
<th>POWER SUPPLY</th>
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<tbody>
<tr>
<td>4</td>
<td>460/60/3 XL</td>
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<tr>
<td>5</td>
<td>575/60/3 XL</td>
</tr>
<tr>
<td>E</td>
<td>200/60/3 XL</td>
</tr>
<tr>
<td>F</td>
<td>230/60/3 XL</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>DIGIT 9</th>
<th>HEATING CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No Heat</td>
</tr>
<tr>
<td>H</td>
<td>High Heat - 2-Stage</td>
</tr>
<tr>
<td>J</td>
<td>High Heat - Limited Modulation</td>
</tr>
<tr>
<td>P</td>
<td>High Heat - Full Modulation</td>
</tr>
</tbody>
</table>

**Note:** When the second digit calls for "E" (electric heat), the following values apply in the ninth digit: 
W = 150 KW

When the second digit calls for "L" or "S", one of the following valve size values must be in Digit 9:
- High Heat Coil: 3 = 1.0", 4 = 1.25", 5 = 1.50", 6 = 2.0", 7 = 2.5" |
- Low Heat Coil: C = 1.0", D = 1.25", E = 1.50", F = 2.0", G = 2.5" |

**DIGIT 10** | DESIGN SEQUENCE
A = First (Factory Assigned)

**Note:** Sequence may be any letter A thru Z, or any digit 1 thru 9.

**DIGIT 11** | EXHAUST OPTION
0 = None
1 = 100%, 15 HP W/Statitrac
2 = 100%, 20 HP W/Statitrac
3 = 100%, 25 HP W/Statitrac
4 = Space Pressure Control with Exhaust VFD and Bypass
5 = VAV Supply Air Temperature Control with VFD and Bypass
6 = VAV Supply Air Temperature Control with VFD and Bypass
7 = VAV Supply Air Temperature Control with VFD and Bypass
8 = Supply and Exhaust Fan with VFD and Bypass
9 = Supply and Exhaust Fan with VFD and Bypass

**DIGIT 12** | EXHAUST AIR FAN DRIVE
0 = None
1 = 500 RPM
2 = 600 RPM
3 = 700 RPM
4 = 800 RPM

**DIGIT 13** | FILTER
A = Throwaway
B = High-Efficiency Throwaway
D = Bag With Prefilter
E = Cartridge With Prefilter
F = Throwaway Filter Rack Less Filter Media
G = Bag Filter Rack Less Filter Media

**DIGIT 14** | SUPPLY AIR FAN HP
C = 30 HP (2-15 HP)
D = 40 HP (2-20 HP)
E = 60 HP (2-25 HP)
F = 80 HP (2-30 HP)
G = 100 HP (2-40 HP)

**DIGIT 15** | SUPPLY AIR FAN DRIVE
A = 1000 RPM
B = 1100 RPM
C = 1200 RPM
D = 1300 RPM
E = 1400 RPM
F = 1500 RPM
G = 1600 RPM

**DIGIT 16** | FRESH AIR
D = 0-100% Economizer (Std.)

**DIGIT 17** | SYSTEM CONTROL
1 = Constant Volume Control
2 = VAV Supply Air Temperature Control w/Inlet Guide Vanes
3 = VAV Supply Air Temperature Control w/Inlet Guide Vanes
4 = Space Pressure/Control with Exhaust VFD and Bypass

**DIGIT 18** | ACCESSORY PANEL
0 = None
A = BAYSENS009
B = BAYSENS010
C = BAYSENS013
D = BAYSENS014
E = BAYSENS019
F = BAYSENS020
G = BAYSENS021

**Note:** Asterisk indicates current model number digit A, B, C, etc. These sensors can be ordered to ship with the unit.

**DIGIT 19** | AMBIENT CONTROL
0 = Standard

**DIGIT 20** | AGENCY APPROVAL
0 = None (UL Gas Heater, see note)
1 = UL
2 = CSA

**Note:** Includes UL classified gas heating section only, when second digit of Model No. is a "F."

**DIGITS 21 - 36** | MISCELLANEOUS
21 A = Unit Disconnect Switch
22 B = Hot Gas Bypass
23 C = Economizer Control w/Comparative Enthalpy
23 Z = Economizer Control w/Reference Enthalpy
23 W = Economizer Control w/Dry Bulb
24 E = Low Leak Fresh Air Dampers
25 F = High Duct Temperature Thermostat
26 G = High Capacity Evaporator Coil (90-125 tons only)
27 K = Generic B.A.S. Module
28 L = High-Efficiency Motors (Supply and Exhaust)
29 M = Remote Human Interface
30 N = Ventilation Override Module
31 R = Extended Pressure Lines
32 T = Access Doors
33 V = Inter-Processor Communication Bridge
34 Y = Trans Communication Interface (TCI) Module
34 Z = Trans LonTalk Communication Interface (LCI) Module
35 O = None
36 Y = Factory-Powered 15A GFI Convenience Outlet
### Model Number Description

<table>
<thead>
<tr>
<th>Digit</th>
<th>Unit Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Self-Contained (Packaged Rooftop)</td>
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</tr>
<tr>
<td>2</td>
<td>Unit Function</td>
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<tr>
<td>3</td>
<td>Airflow</td>
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<td>4</td>
<td>Airflow</td>
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<td>5</td>
<td>Power Supply</td>
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<td>6</td>
<td>Airflow</td>
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<td>7</td>
<td>Heating Capacity</td>
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<tr>
<td>8</td>
<td>Heating Capacity</td>
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<tr>
<td>9</td>
<td>Heating Capacity</td>
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<tr>
<td>10</td>
<td>Supply Air Fan HP</td>
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<tr>
<td>11</td>
<td>Supply Air Fan Drive</td>
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<tr>
<td>12</td>
<td>Filter</td>
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<td>13</td>
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<td>Supply Air Fan HP</td>
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<td>Supply Air Fan Drive</td>
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<td>16</td>
<td>Fresh Air</td>
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<td>17</td>
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</tr>
<tr>
<td>38</td>
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</tbody>
</table>

**SehF** units (units with electric heat) utilizing 208V or 230V require dual power source.

**DIGIT 9 — HEATING CAPACITY**
Note: When the second digit calls for “E” (electric heat), the following values apply: Additional please note D and M available only on 50 ton models and above.

<table>
<thead>
<tr>
<th>Digit</th>
<th>Description</th>
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<tbody>
<tr>
<td>3</td>
<td>High Heat-2-Stage</td>
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<tr>
<td>4</td>
<td>High Heat-Full</td>
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<tr>
<td>5</td>
<td>Heat Limitation</td>
</tr>
<tr>
<td>6</td>
<td>Heat Limitation</td>
</tr>
<tr>
<td>7</td>
<td>Heat Limitation</td>
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</tbody>
</table>

**DIGIT 10 — DESIGN SEQUENCE**
A = Factory Assigned
Note: Sequence may be any letter A thru Z, or any digit 1 thru 9.

**DIGIT 11 — EXHAUST OPTION**
0 = None
1 = Barometric
2 = 100%, 1.5 HP W/Statilug
Model Nomenclature

Allegiance/Heritage Condensing Units

Product Type
6 = Split Heat Pump
7 = Split Cooling

Product Family
A = Allegiance
H = Heritage
C = Light Commercial
B = 10' Cabinet - Cooling Only

Product SEER

0 = 10
2 = 12
4 = 14

Split System Connections 1 - 6 Tons
0 = Brazed

Equipment Capacity
Example: 36 = 36 MBTUH = 3 Tons

Major Design Modifications

Power Supply
1 = 200 - 230/1/60
2 = 200 - 230/2/60
3 = 460/3/60

Secondary Function

Minor Design Modifications

Product Service Change

Gas Furnaces

Furnace Configuration
Freedom 90 = AU = Upflow/Horizontal
AD = Downflow/Horizontal

C = Condensing
D = Induced Draft
XY = Direct Vent Condensing

Heating Input MBTUH
Example: 089 = 89,000 MBTUH

Major Design Change
Freedom 90/90
C = 80% or 90% Single Stage
R = 90% or 90% Two Stage

Power Supply and Fuel
115 Volt, Natural Gas

Airflow Capacity for Cooling
Example: 35 MBTUH = 3 Tons
400 CFM per Ton (400 CFM x 3 Tons = 1200 CFM)

V3 = 2 1/2 - 3 1/2 Tons, Variable Speed Motor (ICM)
V4 = 3 - 4 Tons, Variable Speed Motor (ICM)
V5 = 5 Tons, Variable Speed Motor (ICM)

Air Cleaner

American Standard
Filter

Type
C = Case Only
M = Media, 4 Inch
E = Electronic

Design Change
T = Throw away, 1 Inch

Airflow Capacity for Cooling
Example: 36 MBTUH = 3 Tons

Airflow Capacity for Heating
Example: 055 = 55,000 BTUH

Design Change

Oil Furnaces

Furnace Configuration
ACU = Convertible (Upflow/Downflow/Horizontal)
ALU = Upflow/Horizontal
ALB = Low Boy Upflow Only

Heating Output (BTUH)
Example: 055 = 55,000 BTUH

Design Change

Power Supply and Fuel
115 Volt, Oil

Airflow Capacity for Cooling
Example: 36 MBTUH = 3 Tons

Airflow Capacity for Heating

Split System Convertible Cooling/Heat Pump Coils

Furnace Coils
A = Uncased "A" Coil
C = Cased Coil
F = Cased Flat Horizontal
H = Cased "V" Horizontal
E = Commercial

Coupling System
T = Quick-Attach
D = Brazed

Primary Capacity
Nominal Capacity in 000's of BTU's
C = Universal
S = Variable Speed
E = High Efficiency

Refrigerant Control
2 = Cap Tube
3 = Non Bleed TVX
4 = Accutrol™ Flow Control Check Valve (FCCV)
5 = Bleed TVX

HP = Heat Pump
AO = Air Conditioning

Minor Design Change

Split System Upflow Only Cooling Coils

Airflow Capacity for Heating

American Standard
Filter

Type
C = Case Only
M = Media, 4 Inch
E = Electronic

Design Change
T = Throw away, 1 Inch

Airflow Capacity for Cooling
Example: 14 1/2 inches
C = 21 inches
B = 17 1/2 inches
D = 24 1/2 inches

Primary Capacity
Nominal Capacity 000's Of BTU's

Major Design Sequence
Refrigerant Control
2 = Cap Tube
3 = TXVNB
4 = Accutrol™ Flow Control Check Valve (FCCV)
5 = Bleed TVX

Dedicated Cooling
Coils Only

Minor Design Change

Service Digit

Product Designated For
AH = Air Handler
FR = Furnace

Minor Design Sequence

Minor Design Change

Service Digit

American Standard
Filter

Type
C = Case Only
M = Media, 4 Inch
E = Electronic

Design Change
T = Throw away, 1 Inch

Airflow Capacity for Cooling
Example: 14 1/2 inches
C = 21 inches
B = 17 1/2 inches
D = 24 1/2 inches

Primary Capacity
Nominal Capacity 000's Of BTU's

Major Design Sequence
Refrigerant Control
2 = Cap Tube
3 = TXVNB
4 = Accutrol™ Flow Control Check Valve (FCCV)
5 = Bleed TVX

Dedicated Cooling
Coils Only

Minor Design Change

Service Digit

Product Designated For
AH = Air Handler
FR = Furnace

Minor Design Sequence

Service Digit
### Packaged Units

**Product Type**
- TC = Cooling
- WG = Heat Pump
- YC = Gas Electric
- DC = Dual Fuel

**Airflow Configuration**
- M = Mobile Home Unit
- D = Downflow
- H = Horizontal
- C = Convertible
- X = High Efficiency
- Y = Higher Efficiency
- Z = Highest Efficiency

**Cooling Capacity (METUH)**
- 018 = 1 1/2 Tons
- 024 = 2 Tons
- 030 = 2 1/2 Tons
- 036 = 3 Tons
- 042 = 3 1/2 Tons
- 048 = 4 Tons
- 056 = 5 Tons
- 066 = 6 Tons
- 086 = 7 Tons
- 090 = 7 1/2 Tons

**Major Development Sequence**

**Electrical Characteristics**
- L = Low Heat
- M = Medium Heat
- H = High Heat

**Secondary Capacity**
- L = Low Heat
- M = Medium Heat
- H = High Heat

**Factory Installed Options**
- 0 = Packaged Stock, No Options
- A = Factory Installed Econocizer
- B = Oversize Motor
- C = Downflow Econocizer

**Minor Design Change**
- HE = High Efficiency Models

### Accessories

**Denotes Accessories (AY, ASY, BAY, TAY)**

**Accessories**
- ASCT = Anti-Cycle Timer
- BRM = Barometric Relief
- BASE = Subbase
- BR20 = Coupling Kit Adaptors
- CCHT = Crankcase Heater
- CLE = Coil Enclosures
- CURR = Roof Curb
- DMFR = Damper
- DNWL = Downdraft Conversion Kit
- ECON = Economizer
- ENTH = Entilag Control
- FLTR = Filter
- GARD = Coil Guard
- ORAI = Return Air Grill
- HALT = High Altitude Kit
- HGSP = Hot Gas Bypass Control
- HST = High Static Motor
- HTRA = Electric Heater
- ISLT = Isolator
- STG = Storage

**Major Design Sequence**
- Numbers Are Sequentially Assigned Except For Electric Heaters, On Electric Heaters Digit 3 Is Used To Identify Voltage And Digit 9 And 10 Are Used To Identify Capacity In KW's.

**Minor Design Sequence**
- Accessory To Unit Match-up (When Required)
- Service Digit (When Required)

### Commercial Condensing Units

**Product Type**
- TTA = Split Cooling
- TWA = Split Heat Pump

**Nominal Gross Cooling Capacity (MBH)**
- Cooling Heat Pump
- 090 = 7 1/2 Tons
- 120 = 10 Tons
- 150 = 12 1/2 Tons
- 180 = 15 Tons
- 240 = 20 Tons

**Compressor**
- A = Single Compressor
- C = Single 2-Speed Scroll Compressor
- B = Dual Compressor

**Electrical Characteristics**
- 3 = 230-20/3/60
- 4 = 460/3/60

**Factory Installed Options**
- 00 = Packaged Stock, No Options

**Minor Design Sequence**

**Service Digit**
- O = In Residential Air Handlers & BAF Connections
- B = Built-In Fan Delay

### Air Handlers:

**Commercial, 5 – 20 Tons**

**Product Type**
- TW = Air Handler Designed For Heat Pump or Cooling Application

**Airflow Type**
- E = Convertible (Upflow/Horizontal Only)

**Nominal Cooling Capacity**
- Gross Cooling Capacity = Commercial, 5 – 20 Tons
- Example: 120 = 120,000 BTUH (10 Tons)

**Commercial & Refrigeration Circuits**
- A = Single Circuit
- B = Dual Circuit

**Electrical Characteristics**
- Commercial: 1 = 208-230/1/60
- 3 = 208-230/3/60
- 4 = 460/3/60

**Commercial – Factory Installed Options**
- 0 = Packaged Stock, No Options

**Minor Design Sequence**

**Service Digit**
- O = In Residential Air Handlers & BAF Connections
- B = Built-In Fan Delay

### Air Handlers:

**Residential, 1 1/2 – 5 Tons**

**Product Type**
- TW = Air Handler Designed For Heat Pump or Cooling Application

**Airflow Type**
- V = Vertical, Upflow Converts To Downflow
- H = Horizontal Only
- E = Convertible 6-Way (Upflow/Downflow/Horizontal)

**Nominal Cooling Capacity**
- Residential Cooling Capacity — Residential, 1 1/2 – 5 Tons
- Example: 36 = 36,000 BTUH (3 Tons)

**Residential Major Development Sequence**
- B = Built-In Fan Delay Function
- C = Convertible
- E = Electronic Variable Speed Motor
- P = High Efficiency System

**Electrical Characteristics**
- Residential: 1 = 200-230/1/60

**Residential Refrigerant Flow Control**
- 3 = Non Bleed TVX
- 4 = Accutemp Flow Control/Check Valve
- 5 = Bleed TVX

**Residential Design Change**
- 0 = No Change
- F = 1" Cabinet Insulation, "Air-Tite" Models

**Minor Design Sequence**

**Service Digit**
- O = In Residential Air Handlers & BAF Connections
- B = Built-In Fan Delay
Old & New Lennox Model Numbering System
(Tonnage Conversion Chart)

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<th>NEW</th>
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* 1 or 3 to indicate single or three-phase.

Standard Formula: 1 ton of cooling = 12,000 Btu

\[ G = 460 \quad y = 208 \quad p = 208 \]
YORK Nomenclature

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(6) SIX DIGIT SEQUENCE NUMBER

TYPE OF PRODUCT
- H-BASIC UNIT MANUFACTURED
- P-BASIC UNIT PURCHASED
- S-LOW SIDE MANUFACTURED
- T-LOW SIDE MANUFACTURED

YEAR ASSEMBLED
- A-1971
- B-1972
- C-1973
- D-1974
- E-1975
- F-1976
- G-1977
- H-1978
- J-1979
- K-1980
- L-1981
- M-1983
- N-1984
- R-1985
- S-1986
- T-1987
- V-1988
- W-1989
- X-1990
- Y-1991
- Z-1992
- B-1993
- C-1994
- D-1995
- E-1996
- F-1997
- G-1998
- H-1999
- I-2000
- J-2001
- K-2002
- L-2003
- M-2004
- N-2005
- PP-2006
- RR-2006

MONTH ASSEMBLED
- A-JAN
- B-FEB
- C-MAR
- D-APRIL
- E-MAY
- F-JUNE
- G-JULY
- H-AUG
- K-SEPT
- L-OCT
- M-NOV
- N-DEC

POINT OF MANUFACTURE
- Y-YORK
- M-MADISONVILLE
- N-NORIAN
- E-ELYRIA
- D-MENDINA
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<td>2.5</td>
<td>024 = 24,000 BTU/HR [7.03 kW]</td>
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<td>3</td>
<td>030 = 30,000 BTU/HR [8.79 kW]</td>
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<td>036 = 36,000 BTU/HR [10.55 kW]</td>
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<td>042 = 42,000 BTU/HR [12.31 kW]</td>
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<td>048 = 48,000 BTU/HR [14.07 kW]</td>
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<td>5</td>
<td>060 = 60,000 BTU/HR [17.58 kW]</td>
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*See Engineering Feature #12.
[ ] Designates Metric Conversions
Air Conditioning Wall-Mount Model Nomenclature

**Ventilation Options**

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<tr>
<th>Models</th>
<th>WA18</th>
<th>WA24</th>
<th>WA30</th>
<th>WA36</th>
<th>WA42</th>
<th>WA48</th>
<th>WA60</th>
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<tr>
<td>Description</td>
<td>Barometric Fresh Air Damper</td>
<td>Blank-off Plate</td>
<td>Motorized Fresh Air Damper</td>
<td>Commercial Ventilator - Motorized</td>
<td>Economizer (Internal) - Fully Modulating</td>
<td>Energy Recovery Ventilator - 230 Volt</td>
<td>Energy Recovery Ventilator - 460 Volt</td>
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<tr>
<td>Field Installed Part No.</td>
<td>BFAD-2</td>
<td>BOP-2</td>
<td>MFAD-2</td>
<td>CRV-2</td>
<td>EIFM-2</td>
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<td>V</td>
<td>E</td>
<td>R</td>
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| Low Ambient Control is required with economizer for low temperature compressor operation. Requires 8403-021 (T874D1934) thermostat and 8404-012 (O674A1001) sub-base combination.

**Air Conditioning Control Modules**

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<th>Factory Installed Code No.</th>
<th>WA18-WA60</th>
<th>Field Installed Part No.</th>
<th>WA18-WA42</th>
<th>WA44-WA60</th>
<th>High Pressure Control</th>
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<th>Compressor Anti-Cycle Relay</th>
<th>Low Ambient Control</th>
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BARD MANUFACTURING CO.
BRYAN, OHIO 43506
Since 1914…Moving Ahead, just as planned.

Specifications subject to change without notice.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

Form No.  S3208
June, 1994

Supersedes S308-1093
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
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<tbody>
<tr>
<td>Features/Benefits</td>
<td>1</td>
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<tr>
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<td>5</td>
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<td>Controls and Application Data</td>
<td>15</td>
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## MODEL NUMBER IDENTIFICATION GUIDE

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<td>275 = 275,000</td>
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<td>COOLING CAPACITY (NOMINAL BTUH)</td>
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<td>300 = 25 Ton</td>
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- **TYPE**
  - H = Heat Pump
  - G = Gas/Electric
  - A = Air Conditioner

- **DESIGN SERIES**
  - Standard Efficiency
GUIDE TO 05D PART NUMBERING SYSTEM:

- SPECIAL ORDER SERVICE COMPRESSORS FOR BRYANT MAY BE PROCESSED AS "O" NAMEPLATE "A" ON 50D UNITS.
- SERVICE MODELS WITH "C" IN THE 10TH DIGIT REPLACE ALL "A", "C" AND "E" ORIGINAL EQUIPMENT MODELS. "O" SERVICE MODELS REPLACE "A" & "P" MODELS. TERMINAL BOXES AND OVERLOADS ARE TO BE REUSED OR REPLACED IF DAMAGED.
- "O" IN THE 11TH & 12TH DIGITS HAS BEEN USED IN THE PAST FOR 400-250 MOTORS AND IS NO LONGER USED, SO AS TO AVOID CONFUSION IN SERVICE THESE DIGITS ARE TO BE LEFT ON THIS CHART BUT ARE NOT TO BE RE-USED.

1ST, 2ND, 3RD DIGITS: SINGLE 05D HERMETIC RECIPROCATING COMPRESSOR

5TH DIGIT: MOTOR SIZES
- 1 CYL 3 HP
- 2 CYL 2HP 5 HP
- 3 CYL 2 24 LFT
- 4 CYL 3 27 LFT
- 5 CYL 5 HP 38 LFT
- 6 CYL 6 20 LFT
- 7 CYL 7 24 LFT
- 8 CYL 8 20 LFT
- 9 CYL 9 24 LFT

6TH, 7TH DIGITS: CRANKCASE ASSEMBLY NO.
- For 2 CYL: 6020-249
- For 3 CYL: 6025-249
- For 4 CYL: 6030-249
- For 5 CYL: 6035-249
- For 6 CYL: 6040-249
- For 7 CYL: 6045-249
- For 8 CYL: 6050-249
- For 9 CYL: 6055-249

8TH DIGIT: KEY NO. SIGNIFICANCE
- 0: PROD. MOD., WT, BOX
- 1: PKG. CONTROLLER, CONTROL BOX
- 2: OEM AC CVRSR
- 3: MODEL NUMBERS
- 4: TECHNICAL CATRAGH MODELS
- 5: FUTURE USE
- 6: REMAN. SERVICE CVRSR
- 7: NEWMAN SERVICE CVRSR
- 8: SPECIAL ORDER ONLY
- 9: ADV. SPEC. OR SEE NOTE 3

9TH DIGIT: SUCTION SERVICE VALVE VARIABLES
- A: MOTOR END 2 BOLT 30°
- B: MOTOR END 4 BOLT 90° OR 180°
- C: MOTOR END 4 BOLT 90°
- D: MOTOR END 4 BOLT 180°
- E: MOTOR END 2 BOLT 180°
- F: PUMP END 2 BOLT 270°
- G: PUMP END 3 BOLT 225°

NOTES:
- SERVICE UNIT SINGLE PACK - SINGLE UNIT UNPACKAGES
- MULTIPACK - DOMESTIC
- PVC PACK - LESS SERVICE VALVE
- 7: GOVERNMENT PACK
- 8: MATCHED COMPONENTS - CONSISTS OF SEPARATE EXPORT PACKAGE PIECES
- 9: DOMESTIC MULTIPACK & MODERN

11TH & 12TH DIGITS: ELECTRICAL CHARACTERISTICS VOLS - PHASE - HERTZ
- START
- 00: 575 - 3 - 60 XL
- 01: 575 - 1 - 60 XL
- 02: 575 - 1 - 60 XL
- 03: 200 - 3 - 60 XL
- 04: 200 - 3 - 60 XL
- 05: 200 - 3 - 60 XL
- 06: 400/460 - 3 - 50/60 XL
- 200/240 - 3 - 50/60 XL
- 220 - 3 - 50 XL
- 220 - 3 - 50 XL
- 09: SEE NOTE 3 XL
- 10: 220 - 2 - 60 XL
- 11: 480 - 3 - 60 XL
- 12: 208/120 - 3 - 60 XL
- 13: 380 - 3 - 60 XL
- 14: 220 - 3 - 60 PW
- 15: 120 - 3 - 60 PW
- 16: 220 - 3 - 50 PW
- 17: 220 - 3 - 50 XL
- 18: 220 - 3 - 50 XL
- 19: 230/400 - 3 - 60 XL
- 20: 575 - 3 - 60 XL
- 21: 440/480 - 3 - 50/60 XL
- 22: 575 - 3 - 60 XL
- 23: 400/480 - 3 - 50/60 XL
- 24: 415 - 3 - 60 PW
- 25: 415 - 3 - 60 XL
- 26: 208/200 - 1 - 60 XL
- 27: 220 - 3 - 50 XL

30
**TYPICAL COMPRESSOR SERIAL PLATE**

**MOTOR MANUFACTURERS SYMBOL**
- D = DELCO
- E = EMERSON
- G = GENERAL ELECTRIC
- R = RANCO
- S = A.O. SMITH
- A = AICHI
- H = ATHENS PRODUCTS-WESTINGHOUSE
- T = TECUMSEH - PARIS

**LETTER INDICATES MONTH (SEE CODE), NEXT 2 DIGITS INDICATE DAY OF MONTH, FOLLOWING 2 DIGITS INDICATE YEAR.**

**BILL OF MATERIAL NO.**

**COMPRESSOR MODEL NUMBER**

**SERIAL NUMBERS**

**INK STAMP 2 DIGIT PROCESS LETTER & NUMBER IN THIS SPACE**

**PLANT OF MANUFACTURE IF OTHER THAN TECUMSEH**
- P = SALEM
- S = SOMERSET
- C = CANADA
- T = TUPELO
- B = BRAZIL
- D = Dundee.

**LOCKED ROTOR AMPS**

**AE LINE AT TECUMSEH ONLY**
- WEST LINE = SAME
- EAST LINE = FIRST
- SECOND
- THIRD

**SHIFT IDENTIFICATION**
- First
- Second
- Third

**ELECTRICAL RATING**
- VOLTS - HERZ -

**PHASE**

**Tecumseh Identification Symbol**

**WHEN LETTER "C" OR "B" IS SHOWN, OMIT "USA."**

**Canadian Standards Association Logo**

**Single Phase**
- "A" ALUM. MAIN & CU. START
- "B" ALUM. MAIN & START
- "C" CU. MAIN & START
- "D" CU. MAIN & ALUM. START
- "E" ALUM. MAIN & ALUM. ALLOY START
- "F" CU. MAIN & ALUM. ALLOY START

**Three Phase**
- "A" FOR TWO PHASES ALUM., ONE PHASE CU.
- "B" FOR ALL PHASES ALUM.
- "C" FOR ALL PHASES CU.
- "D" FOR TWO PHASES CU., ONE PHASE ALUM.

**Alternate Shift Identification**

**Somerset Plant**

**DATE OF MANUFACTURE**

The date of manufacture is determined by a code on the serial plate or unit nameplate. This code is as follows:

Starting in January 1940 the date designation on all hermetic compressors was simplified to one letter and one figure. The months are lettered as follows:

- January — A
- February — B
- March — C
- April — D
- May — E
- June — F
- June — E
- July — G
- August — H
- September — J
- October — K
- November — L
- December — M

The preceding letter is a numeral indicating the year this compressor was built. For example, 1A would indicate the compressor was built January 1941, 7C would indicate the compressor was built March 1947. This system will hold for compressors manufactured from 1940 through 1949.

For compressors manufactured from 1950 to 1952, the year precedes the letter designating the month. For example, 51L is a compressor manufactured in November 1951. From 1953 to 1958 the year is the first numeral and the month and day are on the second line.

From 1958 on, the second line reading from left to right is: Letter indicating motor, dots to identify shift, letter for month, 2 digits for day and 2 digits for year of manufacture.
SERIAL PLATE INFORMATION

The only source for complete compressor information is on the compressor serial plate/label. The serial plate/label, which is self-adhered to the compressor, has almost entirely replaced the use of the metal serial plate which was spot welded to the housing. Both describe the compressor characteristics exactly.

The months are identified as follows:

January – A  
February – B  
March – C  
April – D  
May – E  
June – F  
July – G  
August – H  
September – J  
October – K  
November – L  
December – M

TYPICAL CURRENT SERIAL PLATE/LABEL

The serial number indicates the day of the month, followed by two digits indicating the year.

BILL OF MATERIAL NO.
LETTER INDICATES MONTH (SEE CODE),  
NEXT 2 DIGITS INDICATE DAY OF MONTH,  
FOLLOWING 2 DIGITS INDICATE YEAR.

TYPICAL CURRENT SERIAL PLATE/METAL

LETTER INDICATES MONTH (SEE CODE),  
NEXT 2 DIGITS INDICATE DAY OF MONTH,  
FOLLOWING 2 DIGITS INDICATE YEAR.

BILL OF MATERIAL NO.

electric rating
volts – hertz – lra – phase

CONDENSING UNIT LABEL

MANUFACTURING CODE DATE

THE MONTH OF MANUFACTURE – ONE LETTER  
IS BETWEEN THE YEAR – TWO NUMBERS.
<table>
<thead>
<tr>
<th>MODEL/DESCRIPTION</th>
<th>CAPACITY</th>
<th>PAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>5SF.H</td>
<td>5-210 Tons</td>
<td>1-52</td>
</tr>
<tr>
<td>5DF.H</td>
<td>5-210 Tons</td>
<td>53-58</td>
</tr>
<tr>
<td>9DF.E</td>
<td>5-40 Tons</td>
<td>59-72</td>
</tr>
<tr>
<td>9DF.E</td>
<td>5-40 Tons</td>
<td>59-72</td>
</tr>
<tr>
<td>9DF.B, B,D, D,K</td>
<td>5-80 Tons</td>
<td>83-104</td>
</tr>
<tr>
<td>9DF.B</td>
<td>5-15 Tons</td>
<td>105-106</td>
</tr>
<tr>
<td>9DF.E</td>
<td>100-160 Tons</td>
<td>109-118</td>
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<tr>
<td>9DF.E</td>
<td>70-915 Tons</td>
<td>119-120</td>
</tr>
<tr>
<td>9DF.E</td>
<td>70-915 Tons</td>
<td>119-120</td>
</tr>
<tr>
<td>17KB</td>
<td>90-1500 Tons</td>
<td>123-124</td>
</tr>
<tr>
<td>17DK, D,M</td>
<td>150-500 Tons</td>
<td>125-126</td>
</tr>
<tr>
<td>17M.P.S</td>
<td>400-3500 Tons</td>
<td>127-128</td>
</tr>
<tr>
<td>17DR</td>
<td>500-1600 Tons</td>
<td>129-130</td>
</tr>
<tr>
<td>17FA</td>
<td>1200-2200 Tons</td>
<td>131-132</td>
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<tr>
<td>17DA</td>
<td>2500-7000 Tons</td>
<td>133-134</td>
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<tr>
<td>17DA/TEA</td>
<td>N/A</td>
<td>135-136</td>
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<tr>
<td>17EA9</td>
<td>N/A</td>
<td>137-138</td>
</tr>
<tr>
<td>17DK, D,M</td>
<td>150-500 Tons</td>
<td>139-140</td>
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<tr>
<td>18XL</td>
<td>300-500 Tons</td>
<td>141-142</td>
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<tr>
<td>18XL</td>
<td>500-1600 Tons</td>
<td>143-144</td>
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<tr>
<td>18XL</td>
<td>1000-1350 Tons</td>
<td>145-146</td>
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<td>19CA</td>
<td>N/A</td>
<td>147-148</td>
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<td>20K, 28-40</td>
<td>N/A</td>
<td>149-150</td>
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<td>28-40</td>
<td>N/A</td>
<td>151-152</td>
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<td>28F</td>
<td>N/A</td>
<td>153-154</td>
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<td>28F</td>
<td>15,000-60,000 Btu</td>
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<tr>
<td>28F</td>
<td>150-250 Tons</td>
<td>157-158</td>
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<tr>
<td>30RT</td>
<td>400-1000 Tons</td>
<td>159-160</td>
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<td>30H</td>
<td>75-150 Tons</td>
<td>174-175</td>
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<td>30H</td>
<td>150-225 Tons</td>
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<td>30H</td>
<td>17-51 Tons</td>
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<td>30H</td>
<td>223-224 Tons</td>
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<td>30H</td>
<td>25-25 Tons</td>
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<td>30H</td>
<td>27-318 Tons</td>
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<td>30H</td>
<td>90-110 Tons</td>
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<td>30H</td>
<td>345-390 Tons</td>
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<td>30H</td>
<td>600-2000 Tons</td>
<td>349-392</td>
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<tr>
<td>30H</td>
<td>600-2000 Tons</td>
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<td>30H</td>
<td>120-400 Tons</td>
<td>357-370</td>
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<td>30H</td>
<td>200-600 Tons</td>
<td>371-414</td>
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<tr>
<td>30H, e</td>
<td>19.4-131.9 Cfm</td>
<td>415-418</td>
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<tr>
<td>30H, e</td>
<td>19.4-131.9 Cfm</td>
<td>415-418</td>
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<tr>
<td>30H, e</td>
<td>19.4-131.9 Cfm</td>
<td>415-418</td>
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<tr>
<td>30H, e</td>
<td>19.4-131.9 Cfm</td>
<td>415-418</td>
</tr>
<tr>
<td>30H, e</td>
<td>19.4-131.9 Cfm</td>
<td>415-418</td>
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<td>CAPACITY</td>
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<tr>
<td>---------</td>
<td>-------------</td>
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</tr>
<tr>
<td>46DJ, 4J,DJ</td>
<td>Single- packages Rooftop units</td>
<td>3-12.5 Tons</td>
</tr>
<tr>
<td>46HJ, 4HJ, 4HJ</td>
<td>Single- packages Rooftop units</td>
<td>6 Tons</td>
</tr>
<tr>
<td>46P/DPE, 4R/DRE</td>
<td>Single- packages Rooftop units</td>
<td>12-18 Tons</td>
</tr>
<tr>
<td>44MA, 4ME</td>
<td>Single- packages Rooftop units with 2 Independent Stages of Cooling</td>
<td>15-30 Tons</td>
</tr>
<tr>
<td>46DJ, 4K</td>
<td>Weathermaker II Rooftop units</td>
<td>20-27 Tons</td>
</tr>
<tr>
<td>46DF</td>
<td>Combination Heating/Cooling units</td>
<td>20-60 Tons</td>
</tr>
<tr>
<td>46DJK</td>
<td>Weathermaker III Rooftop units</td>
<td>30-75 Tons</td>
</tr>
<tr>
<td>46DJ, 4J,DJ, 4J, 4D, 4D, 4D, 4D, 4D</td>
<td>Weathermaker II Rooftop units</td>
<td>60-100 Tons</td>
</tr>
<tr>
<td>46FH, 4B, 4B</td>
<td>Single- packages Rooftop units</td>
<td>15-25 GPD</td>
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Cooling Units

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DESCRIPTION</th>
<th>CAPACITY</th>
<th>PAGES</th>
</tr>
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<tbody>
<tr>
<td>50EE</td>
<td>Single- packages Cooling units</td>
<td>1.5-5 Tons</td>
<td>1621-1629</td>
</tr>
<tr>
<td>50HE</td>
<td>Single- packages Air Conditioners</td>
<td>1.5-6 Tons</td>
<td>1628-1640</td>
</tr>
<tr>
<td>50AH</td>
<td>Single- packages Indoor Single- package Cooling units</td>
<td>2.5 Tons</td>
<td>1641-1654</td>
</tr>
<tr>
<td>50BT, 5U</td>
<td>Single- packages Cooling units</td>
<td>3-10 Tons</td>
<td>1655-1669</td>
</tr>
<tr>
<td>50HJ</td>
<td>Single- packages Rooftop units</td>
<td>3-10 Tons</td>
<td>1609-1704</td>
</tr>
<tr>
<td>500J</td>
<td>Single- packages Rooftop units with Electric Heat Option</td>
<td>3-12.5 Tons</td>
<td>1705-1736</td>
</tr>
<tr>
<td>50EC</td>
<td>Vertical Air- cooled Single-package Cooling units</td>
<td>5-15 Tons</td>
<td>1727-1749</td>
</tr>
<tr>
<td>50HM</td>
<td>Single- packages Rooftop units</td>
<td>6 Tons</td>
<td>1749-1768</td>
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<tr>
<td>50ED</td>
<td>Single- packages Cooling units</td>
<td>7.5-20 Tons</td>
<td>1769-1778</td>
</tr>
<tr>
<td>50CD, 5DE</td>
<td>Single- packages Rooftop units with Electric Heat Option</td>
<td>12-18 Tons</td>
<td>1779-1788</td>
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<tr>
<td>50ME</td>
<td>Single- packages Zone-Mate™ Cooling units</td>
<td>15-30 Tons</td>
<td>1439-1476</td>
</tr>
<tr>
<td>50BJ, 5BK</td>
<td>Indoor Package Cooling - WY System</td>
<td>15-60 Tons</td>
<td>1709-1820</td>
</tr>
<tr>
<td>50BA, 5BB, 5BT, 5BU</td>
<td>Vertical Indoor Package units - Constant Volume Systems</td>
<td>15-60 Tons</td>
<td>1821-1856</td>
</tr>
<tr>
<td>50ED</td>
<td>Single- packages Cooling units</td>
<td>15 Tons</td>
<td>1857-1884</td>
</tr>
<tr>
<td>50DJ, 5D, 5DW, 5DJ, 5D, 5DW</td>
<td>Single- packages Cooling units with Optimal Electric Heat</td>
<td>15-60 Tons</td>
<td>1859-1901</td>
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<tr>
<td>50DF, 5DL</td>
<td>Single- packages Cooling units with WY Systems</td>
<td>20-60 Tons</td>
<td>1901-1903</td>
</tr>
<tr>
<td>50DK, 5DK, 5DK</td>
<td>Single- packages Cooling units with WY Systems</td>
<td>30-75 Tons</td>
<td>1941-2004</td>
</tr>
<tr>
<td>50DJK, 5DK</td>
<td>Single- packages Cooling units with Gas or Electric Heat</td>
<td>60-100 Tons</td>
<td>1569-1612</td>
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</table>

Heat Pumps

<table>
<thead>
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<th>MODELS</th>
<th>DESCRIPTION</th>
<th>CAPACITY</th>
<th>PAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>500J</td>
<td>Single- packages Heat Pump units</td>
<td>3-10 Tons</td>
<td>2001-2100</td>
</tr>
<tr>
<td>50PQ</td>
<td>Single- packages Heat Pump units</td>
<td>12.5-15 Tons</td>
<td>2101-2120</td>
</tr>
<tr>
<td>50EQ</td>
<td>Single- packages Heat Pump units</td>
<td>20-30 Tons</td>
<td>2121-2130</td>
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</tbody>
</table>

Water Source Heat Pumps

<table>
<thead>
<tr>
<th>MODELS</th>
<th>DESCRIPTION</th>
<th>CAPACITY</th>
<th>PAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>50GQ, 5Q, 5Q, 5Q, 5Q</td>
<td>Horizontal Water Source Heat</td>
<td>5-6 Tons</td>
<td>2137-2160</td>
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<tr>
<td>50GQY, 5QY</td>
<td>Vertical Water Source Heat</td>
<td>7.5-6 Tons</td>
<td>2161-2164</td>
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<tr>
<td>50HJ, 5Q, 5Q, 5Q, 5Q</td>
<td>Water Source Heat</td>
<td>100-240 Tons</td>
<td>2165-2200</td>
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<tr>
<td>58S</td>
<td>Package Terminal Air Conditioners and Heat Pump units</td>
<td>4,000-20,000 Btu</td>
<td>2201-2211</td>
</tr>
<tr>
<td>59E</td>
<td>Electric Package Terminal Air Conditioners and Heat Pump units</td>
<td>8,000-13,500 Btu</td>
<td>2217-2225</td>
</tr>
<tr>
<td>59XX9</td>
<td>Electronic Upflow Gas-Fired Condensing Furnaces</td>
<td>60,000-100,000 Btu</td>
<td>2229-2236</td>
</tr>
<tr>
<td>59XXC</td>
<td>Deluxe Upflow Gas Furnace</td>
<td>40,000-90,000 Btu</td>
<td>2239-2240</td>
</tr>
<tr>
<td>59XXC</td>
<td>Mid- efficiency Induced-Draft Combustion Upflow Furnace</td>
<td>40,000-130,000 Btu</td>
<td>2249-2256</td>
</tr>
<tr>
<td>58PAV</td>
<td>Mid- efficiency Induced-Draft Combustion Upflow Furnace</td>
<td>35,000-125,000 Btu</td>
<td>2257-2258</td>
</tr>
<tr>
<td>59GFA</td>
<td>Gas Heat Furnace</td>
<td>50,000-120,000 Btu</td>
<td>2259-2272</td>
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<tr>
<td>59PAF</td>
<td>Gas Heat Furnace</td>
<td>50,000-120,000 Btu</td>
<td>2273-2290</td>
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<tr>
<td>59DHC</td>
<td>Gas Heat Furnace</td>
<td>40,000-110,000 Btu</td>
<td>2281-2289</td>
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<tr>
<td>59RAV</td>
<td>Gas Heat Furnace</td>
<td>35,000-110,000 Btu</td>
<td>2289-2296</td>
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<tr>
<td>59DFA</td>
<td>Gas Heat Furnace</td>
<td>55,000-105,000 Btu</td>
<td>2297-2300</td>
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<tr>
<td>59RAF</td>
<td>Gas Heat Furnace</td>
<td>55,000-105,000 Btu</td>
<td>2301-2306</td>
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<tr>
<td>59GJA</td>
<td>Deluxe Horizontal Gas Furnace</td>
<td>47,000-115,000 Btu</td>
<td>2309-2316</td>
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<tr>
<td>59GFA</td>
<td>Horizontal Gas Furnace</td>
<td>40,000-100,000 Btu</td>
<td>2317-2324</td>
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<tr>
<td>59H</td>
<td>Gas Heat Furnace</td>
<td>55,000-350,000 Btu</td>
<td>2325-2334</td>
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<tr>
<td>61GCA, 5CB, 5CBD</td>
<td>Gas-Fired Steam Boilers</td>
<td>105,000-200,000 Btu</td>
<td>2335-2338</td>
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<tr>
<td>61CWA, 5CWB, 5CBD</td>
<td>Gas-Fired Hot Water Boilers</td>
<td>37,500-220,000 Btu</td>
<td>2339-2342</td>
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<tr>
<td>61HWF</td>
<td>Oil-Fired Water Boilers</td>
<td>92,000-239,000 Btu</td>
<td>2343-2346</td>
</tr>
<tr>
<td>61HW</td>
<td>Room Air Conditioner</td>
<td>5400-33,000 Btu</td>
<td>2347-2348</td>
</tr>
<tr>
<td>61DF</td>
<td>HVAC Engineering Software</td>
<td>2349-2351</td>
<td></td>
</tr>
<tr>
<td>61DF</td>
<td>HVAC Engineering Software</td>
<td>2352-2353</td>
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</tr>
<tr>
<td>61DF</td>
<td>HVAC Engineering Software</td>
<td>2354-2356</td>
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<tr>
<td>61DF</td>
<td>HVAC Engineering Software</td>
<td>2357-2359</td>
<td></td>
</tr>
</tbody>
</table>
EXAMPLES USED TO EXPLAIN DEFINITION: AEA2410ZXAXC

Compressor: AE A 2 4 10 Z XA
Condensing Unit: AE A 2 4 10 Z XA XC
Definition: I II III IV V VI VII VIII

DEFINITION:

II. Family Release variant: A = 1st., B = 2nd., etc.

III. Application:
1. Low Temp. (-10 F) Normal Torque Motor
2. Low Temp. (-10 F) High Torque Motor
3. High Temp. (+45 F) Normal Torque Motor
4. High Temp. (+49 F) High Torque Motor
5. Air Cond. (+45 F) Normal Torque Motor
6. Medium Temp. (+20 F) Normal Torque Motor
7. Medium Temp. (+20 F) High Torque Motor
8. Air Cond. (+49 F) Improved Performance
9. Comm'1 Temp. (+20 F) Normal Torque Motor
0. Comm'1 Temp. (+20 F) Normal Torque Motor
A. Medium & Low Temp. (+20 F) Normal Torque Motor

* Application 5 Compressors applied to condensing units:
1. Compressor model number remains application 5.
2. Unit model number will change to application 4.
Example: A condensing unit using an SPA5612EXT compressor will have a unit model number SFA4612EXT.

IV. Total Number of Digits in Rated 60 Hz. Capacity of Compr./Unit.

V. First Two Digits of Approximate Rated Capacity of Compr./Unit.

VI. Primary Refrigerant:
A = R12
B = R22
J = R502
M = Isobutane
U = Propane
Y = R134a
Z = R404A/R507

VII. Voltage Code: (Voltage-Hz-Phase)
XA = 115-60-1; 100-50-1
XB = 230-60-1; 200-50-1
XC = 240/220-50-1
XD = 230/208-60-1; 200-50-1
XF = 230/208-60-3; 240/200-50-3
XG = 460-60-3; 420/380-50-3

XH = 575-60-3; 520/480-50-3
XN = 230/208-60-1; 220/200-50-1
XP = 220-60-1; 200-50-1
XT = 230/200-60-3; 220/200-50-3
XV = 265-60-1

For explanation of voltages not listed, contact Tecumseh Products Co.
<table>
<thead>
<tr>
<th>MODEL</th>
<th>D.B./W.B.</th>
<th>COOLING CAPACITY</th>
<th>75°</th>
<th>80°</th>
<th>85°</th>
<th>90°</th>
<th>95°</th>
<th>100°</th>
<th>105°</th>
<th>110°</th>
<th>115°</th>
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<tbody>
<tr>
<td>WA181</td>
<td></td>
<td>Total Cooling</td>
<td>19,510</td>
<td>18,670</td>
<td>17,730</td>
<td>16,820</td>
<td>15,920</td>
<td>15,040</td>
<td>14,180</td>
<td>13,330</td>
<td>12,500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sensible Cooling</td>
<td>14,930</td>
<td>14,680</td>
<td>14,480</td>
<td>14,190</td>
<td>13,830</td>
<td>13,350</td>
<td>12,880</td>
<td>12,300</td>
<td>11,640</td>
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<tr>
<td>WA241</td>
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<td>Total Cooling</td>
<td>20,970</td>
<td>20,360</td>
<td>19,710</td>
<td>19,020</td>
<td>18,300</td>
<td>17,540</td>
<td>16,750</td>
<td>15,920</td>
<td>15,060</td>
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<td>Sensible Cooling</td>
<td>14,530</td>
<td>14,460</td>
<td>14,300</td>
<td>14,130</td>
<td>13,970</td>
<td>13,640</td>
<td>13,230</td>
<td>12,720</td>
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<td>Total Cooling</td>
<td>24,960</td>
<td>23,780</td>
<td>22,620</td>
<td>21,460</td>
<td>20,315</td>
<td>19,180</td>
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<td>16,920</td>
<td>15,815</td>
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<td></td>
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<td>Sensible Cooling</td>
<td>17,450</td>
<td>16,620</td>
<td>15,400</td>
<td>14,090</td>
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<td>12,190</td>
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<td>11,530</td>
<td>11,155</td>
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<td>26,040</td>
<td>25,420</td>
<td>24,740</td>
<td>24,000</td>
<td>23,210</td>
<td>22,550</td>
<td>21,450</td>
<td>20,480</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sensible Cooling</td>
<td>19,900</td>
<td>19,500</td>
<td>19,100</td>
<td>18,720</td>
<td>18,270</td>
<td>17,800</td>
<td>17,500</td>
<td>16,770</td>
<td>16,215</td>
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<tr>
<td>WA421</td>
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<td>Total Cooling</td>
<td>31,290</td>
<td>30,350</td>
<td>29,260</td>
<td>28,200</td>
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<td>21,620</td>
<td>19,060</td>
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<td>Sensible Cooling</td>
<td>22,580</td>
<td>21,490</td>
<td>20,690</td>
<td>19,890</td>
<td>19,100</td>
<td>18,530</td>
<td>17,350</td>
<td>16,290</td>
<td>15,540</td>
</tr>
<tr>
<td>WA482</td>
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<td>Total Cooling</td>
<td>37,790</td>
<td>36,100</td>
<td>34,520</td>
<td>33,120</td>
<td>31,000</td>
<td>29,610</td>
<td>28,550</td>
<td>27,300</td>
<td>25,840</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sensible Cooling</td>
<td>27,900</td>
<td>27,150</td>
<td>26,590</td>
<td>25,990</td>
<td>25,375</td>
<td>24,730</td>
<td>23,950</td>
<td>23,340</td>
<td>22,335</td>
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<tr>
<td>WA602</td>
<td></td>
<td>Total Cooling</td>
<td>40,360</td>
<td>39,410</td>
<td>38,560</td>
<td>37,660</td>
<td>36,690</td>
<td>35,740</td>
<td>34,840</td>
<td>34,100</td>
<td>33,165</td>
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<td></td>
<td></td>
<td>Sensible Cooling</td>
<td>28,880</td>
<td>27,640</td>
<td>26,360</td>
<td>25,600</td>
<td>24,820</td>
<td>24,140</td>
<td>23,550</td>
<td>23,030</td>
<td>22,350</td>
</tr>
<tr>
<td>WA502</td>
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<td>Total Cooling</td>
<td>48,080</td>
<td>46,060</td>
<td>44,030</td>
<td>42,000</td>
<td>39,960</td>
<td>37,510</td>
<td>35,640</td>
<td>33,770</td>
<td>31,675</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sensible Cooling</td>
<td>27,520</td>
<td>27,200</td>
<td>26,450</td>
<td>25,800</td>
<td>25,120</td>
<td>24,560</td>
<td>23,930</td>
<td>23,240</td>
<td>21,590</td>
</tr>
</tbody>
</table>

1. Below 65°F, unit requires a factory or field installed low ambient control.
2. Return air temp. °F.
3. CAPACITY MULTIPLIER FACTORS

<table>
<thead>
<tr>
<th>% of Rated Air Flow</th>
<th>-10</th>
<th>Rated</th>
<th>+10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total BTUH</td>
<td>0.975</td>
<td>1.0</td>
<td>1.02</td>
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<tr>
<td>Sensible BTUH</td>
<td>0.950</td>
<td>1.0</td>
<td>1.05</td>
</tr>
</tbody>
</table>
Jason Duhamel

From: David Anastasio  
Sent: Monday, March 26, 2007 8:11 AM  
To: Jason Duhamel  
Subject: overall rating weighted averages

WHEN Num_Of_Compressors_Rated = '0'
Rating_Cabinet * 0.125
Rating_Condensate_Pan * 0.0625
Rating_Electrical * 0.0625
Rating_Outdoor_Coil * 0.3125
Rating_Indoor_Coil * 0.3125
Rating_Heat_Exchanger * 0.125

WHEN Num_Of_Compressors_Rated <> '0'
Rating_Cabinet * 0.05
Rating_Condensate_Pan * 0.025
Rating_Electrical * 0.025
Rating_Outdoor_Coil * 0.125
Rating_Indoor_Coil * 0.125
Rating_Heat_Exchanger * 0.05
Rating_All_Compressors * 0.60

3/26/2007
Original equipment or replacement compressors failing within 20 months of compressor manufacturing date per the compressor's nameplate serial number, must be returned to Lennox, along with a completed Warranty Parts Tag attached to the compressor, to receive warranty credit.

Original equipment or replacement compressors failing beyond 20 months from date of compressor manufacturing date does not require the compressor to be returned. Instead, the compressor name plate must be removed and returned to Lennox along with a completed WPT.

Compressors being returned to Lennox for warranty credit or shipment of a replacement compressor, must be returned to the nearest Lennox warehouse, freight prepaid.

HOW TO READ COMPRESSOR SERIAL NUMBERS:  (examples shown below)

COPELAND

85 A 12345

|--_Month
  | A - January
  | B - February
  | C - March
  | etc.

|--_Year
  | 85 - 1985
  | 86 - 1986
  | etc.

BRISTOL

288 87 123456

|--_Year
  | 87 - 1987
  | 88 - 1988
  | etc.

|--_Day of the Year
  | 001 - January 1
  | 033 - February 2
  | 288 - October 13
  | etc.

TECUMSEH

T: 109 87 C123456

|--_Year
  | 87 - 1987
  | 88 - 1988
  | etc.

|--_Day
  | 01
  | 02
  | etc.

|--_Month
  | A - January
  | B - February
  | etc.

LENNOX

87 04 12345

|--_Month
  | 01 - January
  | 02 - February
  | etc.

|--_Year
  | 87 - 1987
  | 88 - 1988
  | etc.

MANEUROP

(1992 and after)

48 4 12345

|--_Year
  | 4 - 1994
  | 5 - 1995
  | etc.

|--_Fiscal Week of Year
  | 48 - 4th week of November

September 13, 1996
<table>
<thead>
<tr>
<th>UNIT NUMBER</th>
<th>MAKE OF UNIT</th>
<th>MODEL NUMBER</th>
<th>TONNAGE</th>
<th>FILTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Singer</td>
<td>R100A</td>
<td>10 Ton</td>
<td>4 -16x25x2</td>
</tr>
<tr>
<td>2</td>
<td>Singer</td>
<td>R030A</td>
<td>7½ Ton</td>
<td>4 -16x25x2</td>
</tr>
<tr>
<td>3</td>
<td>Singer</td>
<td>CUF60A</td>
<td>8 Ton</td>
<td>2 -25x25x1</td>
</tr>
<tr>
<td>4</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>5</td>
<td>Singer</td>
<td>R080A</td>
<td>7½ Ton</td>
<td>4 -16x25x2</td>
</tr>
<tr>
<td>6</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>7</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>8</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>9</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>10</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>11</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>12</td>
<td>Trane</td>
<td>SAC-750-8</td>
<td>7½ Ton</td>
<td>4 -16x25x1</td>
</tr>
<tr>
<td>13</td>
<td>Singer</td>
<td>R100A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
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<tr>
<td>14</td>
<td>Singer</td>
<td>CUF090AC</td>
<td>8 Ton</td>
<td>2 -25x25x1</td>
</tr>
<tr>
<td>15</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>16</td>
<td>Singer</td>
<td>R100A</td>
<td>10 Ton</td>
<td>4 -16x25x2</td>
</tr>
<tr>
<td>17</td>
<td>Carrier</td>
<td>36AD12610</td>
<td>10 Ton</td>
<td>4 -16x25x2</td>
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<tr>
<td>18</td>
<td>Singer</td>
<td>R160A</td>
<td>15 Ton</td>
<td>8 -16x25x2</td>
</tr>
<tr>
<td>19</td>
<td>Singer</td>
<td>R080A</td>
<td>7½ Ton</td>
<td>4 -16x25x2</td>
</tr>
<tr>
<td>20</td>
<td>Singer</td>
<td>R100A</td>
<td>10 Ton</td>
<td>4 -16x25x2</td>
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<tr>
<td>21</td>
<td>Singer</td>
<td>R080A</td>
<td>7½ Ton</td>
<td>4 -16x25x2</td>
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<tr>
<td>22</td>
<td>Singer</td>
<td>R100A</td>
<td>10 Ton</td>
<td>4 -16x25x2</td>
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<td>23</td>
<td>Trane</td>
<td>SAC-1254-R</td>
<td>12½ Ton</td>
<td>8 -16x25x2</td>
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</tbody>
</table>

Total Tonnage 261 Tons.
<table>
<thead>
<tr>
<th>Trane Date Codes</th>
<th>Res. And lite comm.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X=1984</td>
<td>E=1990</td>
<td>L=1996</td>
</tr>
<tr>
<td>B=1987</td>
<td>H=1993</td>
<td>P=1999</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R=2000</td>
</tr>
</tbody>
</table>
How to read Carrier product designations

Each Carrier product is identified by a series of numbers and letters that are designed to quickly and easily communicate the major characteristics of the product. Exceptions to this designation may be determined from the product data. For example, a thirty-ton packaged heat pump, 208/230 volts, three-phase, is designated like this:

```
/50/ E Q 034 5
```

The first two numbers are a code for the basic type of unit. In this example, "50" denotes "packaged unit." The code for other basic types is as follows:

- 5 & 5-Compressor
- 5 & 7-Water Cooled Condensing Unit
- 9-Condenser
- 16-Absorption Chillers
- 17-Open Centrifugal
- 19-Centrifugal Chillers
- 28-Coils
- 30-Reciprocating Chillers
- 31-Electronic Air Cleaners
- 33-Computerized Damper System
- 35-VAV Box
- 36-Induction Units
- 37-VAV Terminal
- 38-Condensing Units
- 39-Central Station Air Handling Unit
- 40-Packaged Air Handlers
- 42-Fan Coil Unit
- 45-Fan Powered VAV Terminals
- 48-Gas/Electric Rooftop Package
- 49-Humidifiers
- 50-Electric/Electric Rooftop Package and Heat Pumps
- 51-Room Unit
- 52-Packaged Terminal
- 58-Furnaces
- 60-Water Heater

The first letter indicates the design series and is changed with each design upgrade. (Note: "A" is not necessarily the first of a sequence.)

The second letter expands upon the identification of the design sequence. "Q" in this example means "heat pump."

This three-number sequence normally shows the tonnage. "034" means "thirty tons," the code for other tonnages is as follows:

- 004-3 tons
- 005-4 tons
- 006-5 tons
- 007-6 tons
- 008-7.1 tons
- 009-8.1 tons
- 010-10 tons
- 011-12.5 tons
- 012-15 tons
- 014-17.5 tons
- 016-20 tons
- 028-25 tons
- 034-30 tons
- 044-40 tons
- 054-50 tons
- 064-60 tons
- 084-80 tons
- 094-90 tons
- 104-100 tons

The last number describes the electrical characteristics. "5" is the code for 208/230 volts, 3-phase. The other electrical codes are as follows:

- 208/230-1-60
- 480V-3-60
- 5-208/230-3-60
- 6-460-3-60

Note:

Other voltages, Hertz and phases are available. See the individual product pages in this volume for specific detail.

Note:

On fractional sized units, this refers to BTUs rather than tons, i.e., 50H00448 is a 48,000 BTU water source heat pump. On 39-Series air handlers, this refers to the coil face area, i.e., a 39ED39 is a draw-thru air handler with a 39 sq. ft. coil face area.

Note:

On heavy refrigeration, only the first four indicators are defined on this page. See the individual product pages in this volume for specific detail.