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# REFRIGERATION & AIR CONDITIONING COMPRESSORS

SECTION

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ALLIED REFRIGERATION INC. EST. 1934  
SERVING ALL OF CALIFORNIA AND NEVADA  
[www.alliedrefrigeration.com](http://www.alliedrefrigeration.com)

## TECUMSEH MODEL NUMBERS

## EXAMPLE:

| AE<br>COMPRESSOR<br>FAMILY                                     | A<br>RELEASE<br>VARIANT<br>(GENERATION) | 4<br>APPLICATION | 4<br>NUMBER OF<br>DIGITS IN PRINTED<br>BTU<br>CAPACITY                                | 40<br>FIRST TWO<br>DIGITS OF<br>RATED<br>BTU CAPACITY | Y<br>REFRIGERANT | XA<br>VOLTAGE                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------|-----------------------------------------|------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AE<br>AG<br>AH<br>AJ<br>AK<br>AV<br>AW<br>AZ<br>RG<br>RK<br>TP | A = 1st<br>B = 2nd<br>C = 3rd<br>ETC.   |                  | In this example, (4) total<br>digits, with the first 2<br>(40) or 4,000 BTU capacity. |                                                       |                  |                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                |                                         |                  |                                                                                       |                                                       |                  | <b>VOLTAGE CODES</b>                                                                                                                                                                                                                                                                                                                                                            |
|                                                                |                                         |                  |                                                                                       |                                                       |                  | XA = 115-60-1; 100-50-1<br>XB = 230-60-1; 200-50-1<br>XC = 220-240-50-1<br>XD = 208-230-60-1; 200-50-1<br>XE = 208-230-60-3; 200-240-50-3<br>XF = 460-60-3; 380-420-50-3<br>XG = 575-60-3; 480-520-50-3<br>XH = 208-230-60-1; 200-220-50-1<br>XI = 220-60-1; 200-50-1<br>XJ = 200-230-60-3; 200-220-50-3<br>XK = 100-60-1; 100-50-1<br>XL = 265-60-1<br>XM = 115-600-1; 90-50-1 |
|                                                                |                                         |                  |                                                                                       |                                                       |                  | <b>PRIMARY REFRIGERANTS</b>                                                                                                                                                                                                                                                                                                                                                     |
|                                                                |                                         |                  |                                                                                       |                                                       |                  | A = R12<br>B = R410A<br>C = R407C<br>E = R22<br>J = R502<br>Y = R134a<br>Z = R404A/<br>R507                                                                                                                                                                                                                                                                                     |

## NOTE:

For explanations of voltages not listed  
contact Tecumseh Products Company.

## PRIMARY APPLICATION PARAMETERS

| Evaporation<br>Temperature | Rating<br>Point | Motor Starting<br>Torque |
|----------------------------|-----------------|--------------------------|
| 1. Low                     | -10°F           | Normal                   |
| 2. Low                     | -10°F           | High                     |
| 3. High                    | +45°F           | Normal                   |
| 4. High                    | +45°F           | High                     |
| 5. Air Cond.*              | +45°F           | Normal                   |
| 6. Medium                  | +20°F           | Normal                   |
| 7. Medium                  | +20°F           | High                     |
| 8. Air Cond.               | +49°F           | Normal                   |
| 9. Commercial              | +20°F           | High                     |
| 0. Commercial              | +20°F           | Normal                   |
| A. Medium/Low              | +20°F           | Normal                   |

\* Application "5" compressors when applied to units  
become application "4" in the unit's model number.



## COMPRESSOR APPLICATION CATEGORIES

|                  |       |    |       |
|------------------|-------|----|-------|
| Low Temp.        | -40°F | to | +10°F |
| Medium Temp.     | -10°F | to | +30°F |
| Commercial Temp. | -10°F | to | +45°F |
| High Temp.       | +20°F | to | +55°F |
| Air Conditioning | +32°F | to | +55°F |
| Heat Pump        | -15°F | to | +57°F |

## COMPRESSORS

### R-22 Air Conditioning Temperature Compressors



- R-22 Compressors are charged with Alkylbenzene Oil
- All starting components included where needed
- All mounting hardware included

| PART#      | HP    | VOLTAGE   | START TORQ. | CONNECTION |        | CCH | START CAP. | RUN CAP.    | RELAY      | OVERLOAD   |
|------------|-------|-----------|-------------|------------|--------|-----|------------|-------------|------------|------------|
|            |       |           |             | SUCT.      | DSCH.  |     |            |             |            |            |
| AEA5460EXA | 1/2   | 115/1     | Normal      | 3/8" S     | 3/8" S | No  | 3/8" S     | 21-25/250   | 820ARR3A46 | 8300MRTA05 |
| AKA5510EXA | 3/4   | 115/1     | Normal      | 3/8" S     | 3/8" S | No  | 3/8" S     | 21-25/330   | 820ARR3A46 | 8300MRAA72 |
| AKA5510EXD | 3/4   | 208-230/1 | Normal      | 3/8" S     | 3/8" S | No  | 3/8" S     | 21-25/250   | 820ARR3A46 | 8300MRAB28 |
| AKA5510EXV | 3/4   | 265/1     | Normal      | 3/8" S     | 3/8" S | No  | 3/8" S     | 21-25/250   | 820ARR3A46 | 8300MRAB53 |
| AKA5511EXA | 3/4   | 115/1     | Normal      | 3/8" S     | 3/8" S | No  | 3/8" S     | 21-25/250   | 820ARR3A46 | 8300CRAB45 |
| AKA5512EXA | 1     | 115/1     | Normal      | 3/8" S     | 3/8" S | No  | 3/8" S     | 21-25/330   | 82209      | 8300CRAB45 |
| AKA5512EXD | 1     | 208-230/1 | Normal      | 3/8" S     | 3/8" S | No  | 3/8" S     | 72-88/330   | 82212      | 8300MRAB63 |
| AKA5512EXV | 1     | 265/1     | Normal      | 3/8" S     | 3/8" S | No  | 3/8" S     | 21-25/330   | 82209      | 8300MRAB81 |
| AJB5515EXD | 1-1/2 | 208-230/1 | Normal      | 1/2" S     | 1/2" S | No  | 1/2" S     | 21-25/250   | 82239      | 8300CRAA46 |
| AJB5515EXV | 1-1/2 | 265/1     | Normal      | 1/2" S     | 1/2" S | No  | 1/2" S     | 88-108/330  | 82209      | 8300CSTA50 |
| AJA5517EXD | 1-1/2 | 208-230/1 | Normal      | 1/2" S     | 1/2" S | No  | 1/2" S     | 21-25/250   | 82239      | 83734      |
| AJA5518EXV | 1-1/2 | 265/1     | Normal      | 1/2" S     | 1/2" S | No  | 1/2" S     | 21-25/330   | 82209      | 83756      |
| AWG5519EXN | 1-1/2 | 208-230/1 | Normal      | 3/4" S     | 3/4" S | Yes | 3/4" S     | 145-175/330 | 820ARR3H23 | Internal   |
| AWG5524EXN | 2     | 208-230/1 | Normal      | 3/4" S     | 3/4" S | Yes | 3/4" S     | 88-108/330  | 82457      | Internal   |
| AWF5524EXT | 2     | 208-230/3 | 3 PH        | 3/4" S     | 3/4" S | Yes | 3/4" S     | —           | —          | Internal   |
| AWF5524EXG | 2     | 460/3     | 3 PH        | 3/4" S     | 3/4" S | Yes | 3/4" S     | —           | —          | Internal   |
| AWG5528EXN | 2-1/4 | 208-230/1 | Normal      | 3/4" S     | 3/4" S | Yes | 3/4" S     | 88-108/330  | 82457      | Internal   |
| AWG5530EXN | 2-1/2 | 208-230/1 | Normal      | 3/4" S     | 3/4" S | Yes | 3/4" S     | 145-175/330 | 82457      | Internal   |
| AWF5530EXT | 2-1/2 | 208-230/3 | 3 PH        | 3/4" S     | 3/4" S | Yes | 3/4" S     | —           | —          | Internal   |
| AWF5530EXG | 2-1/2 | 460/3     | 3 PH        | 3/4" S     | 3/4" S | Yes | 3/4" S     | —           | —          | Internal   |
| AWG5532EXN | 2-1/2 | 208-230/1 | Normal      | 3/4" S     | 3/4" S | Yes | 3/4" S     | 145-175/330 | 82457      | Internal   |
| AWF5532EXT | 2-1/2 | 208-230/3 | 3 PH        | 3/4" S     | 3/4" S | Yes | 3/4" S     | —           | —          | Internal   |
| AVA5532EXN | 3     | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 130-156/330 | 82269-1    | Internal   |
| AVA5535EXN | 3     | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 130-156/330 | 82269-1    | Internal   |
| AVA5535EXT | 3     | 208-230/3 | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AVA5538EXN | 3     | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 72-88/330   | 82467      | Internal   |
| AVA5538EXT | 3     | 208-230/3 | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AVA5538EXG | 3     | 460/3     | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AVA5542EXN | 3-1/2 | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 72-88/330   | 82467      | Internal   |
| AVA5542EXT | 3-1/2 | 208-230/3 | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AVA5542EXG | 3-1/2 | 460/3     | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AVA5546EXN | 4     | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 72-88/330   | 82467      | Internal   |
| AVA5546EXT | 4     | 208-230/3 | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AVA5546EXG | 4     | 460/3     | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AGA5553EXN | 4     | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 130-156/330 | 820ARR3C30 | Internal   |
| AGA5553EXT | 4     | 208-230/3 | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AGC5553EXG | 4     | 460/3     | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AVB5558EXN | 5     | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 130-156/330 | 82269-1    | Internal   |
| AVB5558EXT | 5     | 208-230/3 | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AVD5558EXG | 5     | 460/3     | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AGA5561EXN | 5     | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 130-156/330 | 820ARR3C30 | Internal   |
| AGA5561EXT | 5     | 208-230/3 | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AGC5561EXG | 5     | 460/3     | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AGA5568EXN | 5-1/2 | 208-230/1 | Normal      | 7/8" S     | 7/8" S | Yes | 7/8" S     | 130-156/330 | 820ARR3C30 | Internal   |
| AGA5568EXT | 5-1/2 | 208-230/3 | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |
| AGC5568EXG | 5-1/2 | 460/3     | 3 PH        | 7/8" S     | 7/8" S | Yes | 7/8" S     | —           | —          | Internal   |