



# tecumseh

# TAG2522Z

400V 3~ 50Hz / 440V 3~ 60 Hz

Compressor

AG2522Z-TZ1A

LBP

R-452A / R-404A

Voltage Code : TZ

| Refrigerant | Frequency   | Nominal Cooling Capacity (*) |               | Sound Power<br>ISO3745 / ISO 3743-1 |
|-------------|-------------|------------------------------|---------------|-------------------------------------|
|             |             | Watts                        | BTU/h         |                                     |
| R-452A      | 50HZ / 60HZ | 2473 / 3174                  | 8432 / 10825  | 71 dBA                              |
| R-404A      | 50HZ / 60HZ | 3197 / 3859                  | 10900 / 13159 |                                     |
| R-448A      | 50HZ / 60HZ | 2091 / 2684                  | 7129 / 9154   |                                     |
| R-449A      | 50HZ / 60HZ | 2091 / 2684                  | 7129 / 9154   |                                     |

(\*) Operating conditions EN12900 : Dew / T°Cond. 40°C / T°Evap -35°C / T°Return gas temp. 20°C / T°Subcooling 0K



\*Non-contractual picture

## Dimensions

|                  |                   |
|------------------|-------------------|
| Weight           | 46.4 kg (102 lb)  |
| Length           | 361 mm (14.2 in)  |
| Width            | 238 mm (9.4 in)   |
| Height           | 423 mm (16.7 in)  |
| Ø Suction Tube   | 1-1/8 in (28.6mm) |
| Ø Discharge Tube | 5/8 in (15.9mm)   |

## Certificates



## General

|                         |                                |
|-------------------------|--------------------------------|
| Compressor Type         | Reciprocating                  |
| Displacement (cc)       | 135                            |
| Horse Power             | 5.5                            |
| Compressor Cooling      | Fan                            |
| Evaporating Temp. Range | -40°C to -10°C (-40°F to 14°F) |
| Expansion Device        | Capil. Tube/Expans. Valve      |
| Oil Type                | P.O.E 32                       |
| Oil Charge (cc)         | 1760                           |

## Electrical

|                          |                 |
|--------------------------|-----------------|
| Motor Type               | 3PH             |
| Main Winding (Ohm)       | 2.93            |
| Current RLA 50Hz (A)     | 6.2             |
| Current RLA 60Hz (A)     | 7               |
| Current LRA (A)          | 63              |
| Overload                 | Internal        |
| - Time Check             | 2s - 10s / 46 A |
| - Open Temp / Close Temp | 110 °C / 61 °C  |

## Pressure Equipment Directive

|                             |          |
|-----------------------------|----------|
| Max. Ambient Temp. (°C)     | +46      |
| Max. Allowable Press. (bar) | 21       |
| Ambient Temp. Range (°C)    | -35/+150 |
| Leak Test pressure (bar)    | 23.1     |
| Free Volume (l)             | 11.6     |

Note : Tecumseh reserves the right to change information contained in this document without notification.



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**TAG2522Z**

400V 3~ 50Hz / 440V 3~ 60 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

Return gas temp. : 20 °C  
Subcooling : 0 K

## 50HZ R-452A

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15   | -10   |
|------------|-------------------------|------|------|------|------|------|-------|-------|
| <b>30</b>  | Refrig. Capacity (Watt) | 2246 | 3243 | 4488 | 6020 | 7881 | 10114 | 12760 |
|            | Power Input (W)         | 1880 | 2287 | 2722 | 3190 | 3697 | 4249  | 4853  |
|            | Amps (A)                | 4.11 | 4.57 | 5.11 | 5.72 | 6.41 | 7.18  | 8.03  |
| <b>40</b>  | Refrig. Capacity (Watt) | 1610 | 2473 | 3535 | 4839 | 6426 | 8337  | 10615 |
|            | Power Input (W)         | 1742 | 2205 | 2694 | 3215 | 3773 | 4376  | 5028  |
|            | Amps (A)                | 3.94 | 4.49 | 5.11 | 5.8  | 6.57 | 7.41  | 8.34  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 2611 | 3688 | 5002 | 6594  | 8505  |
|            | Power Input (W)         |      |      | 2606 | 3184 | 3799 | 4457  | 5162  |
|            | Amps (A)                |      |      | 4.99 | 5.76 | 6.6  | 7.52  | 8.51  |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 2603 | 3645 | 4919  | 6466  |
|            | Power Input (W)         |      |      |      | 3089 | 3766 | 4483  | 5248  |
|            | Amps (A)                |      |      |      | 5.61 | 6.52 | 7.5   | 8.56  |

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## 50HZ R-404A

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15   | -10   |
|------------|-------------------------|------|------|------|------|------|-------|-------|
| <b>30</b>  | Refrig. Capacity (Watt) | 3454 | 4126 | 5179 | 6614 | 8430 | 10627 | 13204 |
|            | Power Input (W)         | 2989 | 3129 | 3325 | 3578 | 3888 | 4255  | 4678  |
|            | Amps (A)                | 4.64 | 4.97 | 5.4  | 5.95 | 6.6  | 7.37  | 8.25  |
| <b>40</b>  | Refrig. Capacity (Watt) | 2556 | 3197 | 4141 | 5388 | 6936 | 8783  | 10928 |
|            | Power Input (W)         | 2419 | 2725 | 3080 | 3484 | 3937 | 4438  | 4989  |
|            | Amps (A)                | 4.37 | 4.82 | 5.38 | 6.05 | 6.82 | 7.7   | 8.68  |
| <b>50</b>  | Refrig. Capacity (Watt) |      | 2139 | 2982 | 4055 | 5355 | 6880  | 8625  |
|            | Power Input (W)         |      | 2337 | 2851 | 3405 | 4000 | 4636  | 5312  |
|            | Amps (A)                |      | 4.63 | 5.31 | 6.09 | 6.98 | 7.96  | 9.04  |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      | 1909 | 2805 | 3859 | 5068  | 6427  |
|            | Power Input (W)         |      |      | 2623 | 3327 | 4063 | 4833  | 5635  |
|            | Amps (A)                |      |      | 5.25 | 6.14 | 7.14 | 8.23  | 9.41  |



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**TAG2522Z**

400V 3~ 50Hz / 440V 3~ 60 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

Return gas temp. : 20 °C  
Subcooling : 0 K

### 50HZ R-448A\*

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15  | -10   |
|------------|-------------------------|------|------|------|------|------|------|-------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1796 | 2747 | 3961 | 5479 | 7343 | 9595 | 12276 |
|            | Power Input (W)         | 1716 | 2121 | 2548 | 3004 | 3496 | 4029 | 4610  |
|            | Amps (A)                | 3.76 | 4.24 | 4.78 | 5.39 | 6.06 | 6.8  | 7.63  |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 2091 | 3119 | 4408 | 5999 | 7935 | 10256 |
|            | Power Input (W)         |      | 2073 | 2547 | 3046 | 3576 | 4145 | 4757  |
|            | Amps (A)                |      | 4.21 | 4.83 | 5.5  | 6.22 | 7.02 | 7.89  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 2342 | 3425 | 4768 | 6411 | 8396  |
|            | Power Input (W)         |      |      | 2486 | 3044 | 3629 | 4248 | 4907  |
|            | Amps (A)                |      |      | 4.76 | 5.51 | 6.31 | 7.17 | 8.09  |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 2562 | 3678 | 5052 | 6725  |
|            | Power Input (W)         |      |      |      | 2971 | 3626 | 4312 | 5034  |
|            | Amps (A)                |      |      |      | 5.39 | 6.28 | 7.21 | 8.21  |

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### 50HZ R-449A\*

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15  | -10   |
|------------|-------------------------|------|------|------|------|------|------|-------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1796 | 2747 | 3961 | 5479 | 7343 | 9595 | 12276 |
|            | Power Input (W)         | 1716 | 2121 | 2548 | 3004 | 3496 | 4029 | 4610  |
|            | Amps (A)                | 3.76 | 4.24 | 4.78 | 5.39 | 6.06 | 6.8  | 7.63  |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 2091 | 3119 | 4408 | 5999 | 7935 | 10256 |
|            | Power Input (W)         |      | 2073 | 2547 | 3046 | 3576 | 4145 | 4757  |
|            | Amps (A)                |      | 4.21 | 4.83 | 5.5  | 6.22 | 7.02 | 7.89  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 2342 | 3425 | 4768 | 6411 | 8396  |
|            | Power Input (W)         |      |      | 2486 | 3044 | 3629 | 4248 | 4907  |
|            | Amps (A)                |      |      | 4.76 | 5.51 | 6.31 | 7.17 | 8.09  |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 2562 | 3678 | 5052 | 6725  |
|            | Power Input (W)         |      |      |      | 2971 | 3626 | 4312 | 5034  |
|            | Amps (A)                |      |      |      | 5.39 | 6.28 | 7.21 | 8.21  |

\* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.



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**TAG2522Z**

400V 3~ 50Hz / 440V 3~ 60 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

Return gas temp. : 20 °C  
Subcooling : 0 K

## 60HZ R-452A

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15   | -10   |
|------------|-------------------------|------|------|------|------|------|-------|-------|
| <b>30</b>  | Refrig. Capacity (Watt) | 2881 | 4126 | 5594 | 7317 | 9329 | 11661 | 14346 |
|            | Power Input (W)         | 2422 | 2955 | 3515 | 4145 | 4888 | 5786  | 6881  |
|            | Amps (A)                | 4.24 | 4.84 | 5.52 | 6.26 | 7.09 | 7.99  | 8.97  |
| <b>40</b>  | Refrig. Capacity (Watt) | 2011 | 3174 | 4531 | 6114 | 7955 | 10086 | 12540 |
|            | Power Input (W)         | 2182 | 2844 | 3491 | 4165 | 4909 | 5765  | 6777  |
|            | Amps (A)                | 3.99 | 4.76 | 5.6  | 6.5  | 7.48 | 8.54  | 9.67  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 3339 | 4741 | 6372 | 8263  | 10447 |
|            | Power Input (W)         |      |      | 3346 | 4129 | 4939 | 5820  | 6813  |
|            | Amps (A)                |      |      | 5.38 | 6.44 | 7.57 | 8.77  | 10    |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 3303 | 4683 | 6295  | 8169  |
|            | Power Input (W)         |      |      |      | 3928 | 4870 | 5840  | 6879  |
|            | Amps (A)                |      |      |      | 6.08 | 7.36 | 8.7   | 10.1  |

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## 60HZ R-404A

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15   | -10   |
|------------|-------------------------|------|------|------|------|------|-------|-------|
| <b>30</b>  | Refrig. Capacity (Watt) | 4384 | 4995 | 6106 | 7719 | 9832 | 12446 | 15558 |
|            | Power Input (W)         | 3553 | 3755 | 4035 | 4392 | 4827 | 5339  | 5929  |
|            | Amps (A)                | 4.48 | 4.85 | 5.39 | 6.11 | 7    | 8.06  | 9.3   |
| <b>40</b>  | Refrig. Capacity (Watt) | 3236 | 3859 | 4877 | 6288 | 8091 | 10284 | 12864 |
|            | Power Input (W)         | 2874 | 3270 | 3737 | 4276 | 4887 | 5569  | 6323  |
|            | Amps (A)                | 4.23 | 4.71 | 5.38 | 6.22 | 7.23 | 8.42  | 9.78  |
| <b>50</b>  | Refrig. Capacity (Watt) |      | 2581 | 3509 | 4733 | 6249 | 8055  | 10144 |
|            | Power Input (W)         |      | 2805 | 3460 | 4180 | 4966 | 5817  | 6735  |
|            | Amps (A)                |      | 4.53 | 5.31 | 6.27 | 7.4  | 8.71  | 10.2  |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      | 2244 | 3274 | 4505 | 5933  | 7550  |
|            | Power Input (W)         |      |      | 3184 | 4085 | 5045 | 6065  | 7145  |
|            | Amps (A)                |      |      | 5.25 | 6.32 | 7.57 | 9     | 10.6  |



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**TAG2522Z**

400V 3~ 50Hz / 440V 3~ 60 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

Return gas temp. : 20 °C  
Subcooling : 0 K

## 60HZ R-448A\*

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15   | -10   |
|------------|-------------------------|------|------|------|------|------|-------|-------|
| <b>30</b>  | Refrig. Capacity (Watt) | 2306 | 3496 | 4937 | 6659 | 8691 | 11061 | 13799 |
|            | Power Input (W)         | 2212 | 2740 | 3290 | 3902 | 4620 | 5486  | 6541  |
|            | Amps (A)                | 3.87 | 4.49 | 5.17 | 5.9  | 6.7  | 7.57  | 8.52  |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 2684 | 3999 | 5571 | 7428 | 9600  | 12116 |
|            | Power Input (W)         |      | 2675 | 3301 | 3945 | 4650 | 5459  | 6412  |
|            | Amps (A)                |      | 4.47 | 5.29 | 6.16 | 7.09 | 8.09  | 9.15  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 2994 | 4403 | 6073 | 8035  | 10316 |
|            | Power Input (W)         |      |      | 3194 | 3948 | 4718 | 5546  | 6475  |
|            | Amps (A)                |      |      | 5.13 | 6.16 | 7.23 | 8.36  | 9.55  |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 3252 | 4723 | 6462  | 8496  |
|            | Power Input (W)         |      |      |      | 3778 | 4690 | 5616  | 6599  |
|            | Amps (A)                |      |      |      | 5.85 | 7.08 | 8.36  | 9.7   |

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## 60HZ R-449A\*

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15   | -10   |
|------------|-------------------------|------|------|------|------|------|-------|-------|
| <b>30</b>  | Refrig. Capacity (Watt) | 2306 | 3496 | 4937 | 6659 | 8691 | 11061 | 13799 |
|            | Power Input (W)         | 2212 | 2740 | 3290 | 3902 | 4620 | 5486  | 6541  |
|            | Amps (A)                | 3.87 | 4.49 | 5.17 | 5.9  | 6.7  | 7.57  | 8.52  |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 2684 | 3999 | 5571 | 7428 | 9600  | 12116 |
|            | Power Input (W)         |      | 2675 | 3301 | 3945 | 4650 | 5459  | 6412  |
|            | Amps (A)                |      | 4.47 | 5.29 | 6.16 | 7.09 | 8.09  | 9.15  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 2994 | 4403 | 6073 | 8035  | 10316 |
|            | Power Input (W)         |      |      | 3194 | 3948 | 4718 | 5546  | 6475  |
|            | Amps (A)                |      |      | 5.13 | 6.16 | 7.23 | 8.36  | 9.55  |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 3252 | 4723 | 6462  | 8496  |
|            | Power Input (W)         |      |      |      | 3778 | 4690 | 5616  | 6599  |
|            | Amps (A)                |      |      |      | 5.85 | 7.08 | 8.36  | 9.7   |

\* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.