

# Condensing unit

Voltage Code : FZ

# CAJN4519ZHR-FZ

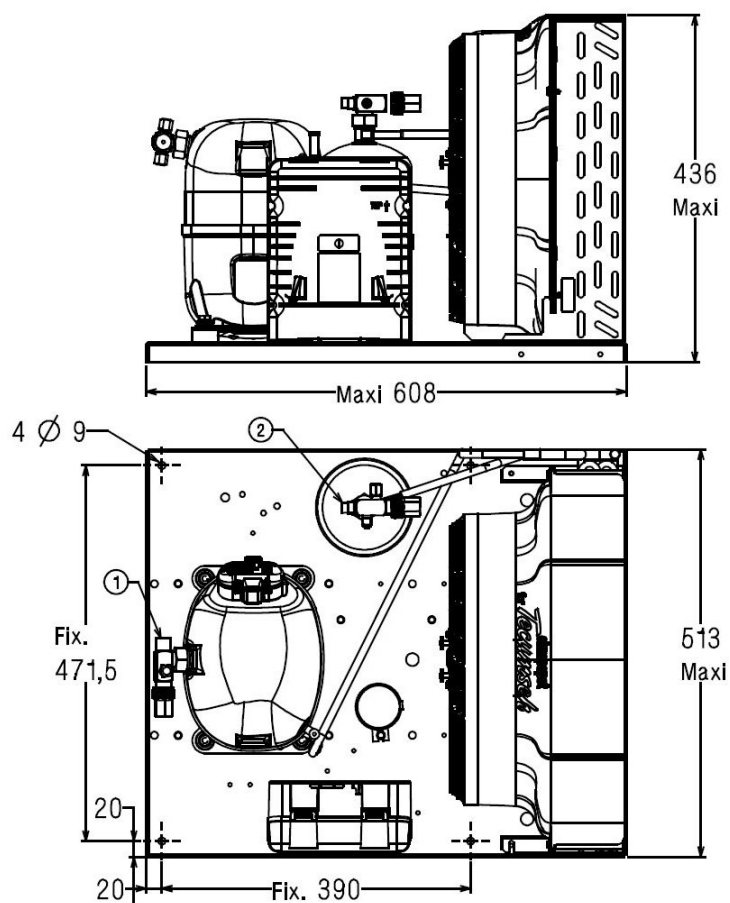
High Temp. Commercial (HP)

220 - 240V 1~ 50 Hz

R452A / R404A / R448A / R449A

CAJN4519ZHR-FZ

| Conditions      | Frequency | Nominal Cooling Capacity |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-----------------|-----------|--------------------------|-------|-------------------------------------|
|                 |           | Watts                    | BTU/h |                                     |
| EN13215 / R452A | 50 Hz     | 2660                     | 9070  | 72 dBA                              |
| EN13215 / R404A | 50 Hz     | 2788                     | 9509  | 72 dBA                              |
| EN13215 / R448A | 50 Hz     | 2439                     | 8317  | 71 dBA                              |
| EN13215 / R449A | 50 Hz     | 2440                     | 8322  | 71 dBA                              |



\* EN13215 : T°Ambient 32.0°C / T°Evap. -10.0°C / T°Return gas temp.. 20.0°C  
T°Subcooling. 3.0K

|                         |                  |
|-------------------------|------------------|
| <b>Net Weight (Kg)</b>  | 44.0             |
| <b>Expansion device</b> | Expansion_Valve  |
| <b>Air Flow (m³/h)</b>  | 1700             |
| <b>Compo Data Sheet</b> | 224ST-FZ         |
| <b>Elec Comp Type</b>   | CSR              |
| <b>Current (Amp)</b>    |                  |
| Load Rated Amp          | 10.5             |
| Max Cont Current        | 16               |
| Lock Rotor Amp          | 46               |
| <b>Fan</b>              |                  |
| Speed (rpm)             | 1350             |
| Power (W)               | 90.0             |
| Diameter (mm)           | 350              |
| Protection              | Overload         |
| IP Level                | IP44             |
| <b>Condenser</b>        | 350/8200         |
| <b>Liquid Receiver</b>  |                  |
| Capacity (L)            | 2.35             |
| Maximum Pressure (Bars) | 32.0             |
| <b>Suction Line</b>     |                  |
| Suction Type            | Vanne Orientable |
| For Tubing Out Diam     | 15.9 (5/8")      |
| Suction Connection Type | Brased           |
| <b>Liquid Line</b>      |                  |
| Liquid Line Type        | Vanne Orientable |
| For Tubing Out Diam     | 9.5 (3/8")       |
| Liquid Connection Type  | Brased           |
| <b>Connection Type</b>  | VR               |
| <b>Fan Guard</b>        | maille < à 8mm   |

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

|                       |   |
|-----------------------|---|
| <b>CAJN4519ZHR-FZ</b> | <b>Tension FZ : 220 - 240V 1~ 50 Hz</b> |
|-----------------------|---|

|  |                              |
|--|------------------------------|
| Les performances sont données dans les <b>conditions EN13215</b> : | Gaz aspirés : 20.0 °C        |
| Condition Dew  | Sous refroidissement : 3.0 K |
| The performance data are in <b>EN13215 conditions</b> :            | Return gas : 20.0 °C         |
| Dew Condition  | Subcooling : 3.0 K           |

| <b>50 Hz R452A</b> |                    |        |            |            |            |            |           |          |          |           |               |
|--------------------|--------------------|--------|------------|------------|------------|------------|-----------|----------|----------|-----------|---------------|
|                    |                    |        |            |            |            |            |           |          |          |           | <b>N°5925</b> |
| 5   T ambience     | 6   T évaporation  | (°C)   | <b>-25</b> | <b>-20</b> | <b>-15</b> | <b>-10</b> | <b>-5</b> | <b>0</b> | <b>5</b> | <b>10</b> | <b>15</b>     |
| <b>25</b>          | 1   P frigorifique | (Watt) | 1543       | 1975       | 2451       | 2966       | 3514      | 4088     | 4678     | 5279      | 5884          |
|                    | 2   P absorbée     | (W)    | 1162       | 1289       | 1425       | 1572       | 1733      | 1908     | 2103     | 2318      | 2558          |
|                    | 3   I absorbée     | (A)    | 5.55       | 6.06       | 6.64       | 7.30       | 8.04      | 8.86     | 9.78     | 10.8      | 11.9          |
|                    | 4   Tc             | (°C)   | 29.6       | 31.9       | 34.3       | 36.8       | 39.4      | 42.1     | 44.9     | 47.9      | 50.9          |
| <b>32</b>          | 1   P frigorifique | (Watt) |            | 1735       | 2183       | 2660       | 3161      | 3682     | 4216     | 4759      | 5312          |
|                    | 2   P absorbée     | (W)    |            | 1317       | 1464       | 1622       | 1792      | 1978     | 2182     | 2407      | 2656          |
|                    | 3   I absorbée     | (A)    |            | 6.11       | 6.76       | 7.48       | 8.28      | 9.15     | 10.1     | 11.2      | 12.3          |
|                    | 4   Tc             | (°C)   |            | 37.8       | 40.0       | 42.3       | 44.7      | 47.2     | 49.8     | 52.5      | 55.3          |
| <b>43</b>          | 1   P frigorifique | (Watt) |            |            | 1753       | 2168       | 2597      | 3036     | 3485     | 3947      |               |
|                    | 2   P absorbée     | (W)    |            |            | 1500       | 1681       | 1874      | 2080     | 2303     | 2545      |               |
|                    | 3   I absorbée     | (A)    |            |            | 6.91       | 7.73       | 8.62      | 9.57     | 10.6     | 11.7      |               |
|                    | 4   Tc             | (°C)   |            |            | 49.0       | 51.0       | 53.1      | 55.2     | 57.5     | 59.9      |               |

| <b>50 Hz R404A</b> |                    |        |            |            |            |            |           |          |          |           |               |
|--------------------|--------------------|--------|------------|------------|------------|------------|-----------|----------|----------|-----------|---------------|
|                    |                    |        |            |            |            |            |           |          |          |           | <b>N°5045</b> |
| 5   T ambience     | 6   T évaporation  | (°C)   | <b>-25</b> | <b>-20</b> | <b>-15</b> | <b>-10</b> | <b>-5</b> | <b>0</b> | <b>5</b> | <b>10</b> | <b>15</b>     |
| <b>25</b>          | 1   P frigorifique | (Watt) | 1678       | 2117       | 2596       | 3110       | 3651      | 4209     | 4774     | 5338      | 5894          |
|                    | 2   P absorbée     | (W)    | 1225       | 1354       | 1491       | 1638       | 1798      | 1971     | 2161     | 2370      | 2600          |
|                    | 3   I absorbée     | (A)    | 5.85       | 6.37       | 6.95       | 7.60       | 8.34      | 9.15     | 10.1     | 11.0      | 12.1          |
|                    | 4   Tc             | (°C)   | 32.5       | 34.7       | 37.1       | 39.5       | 42.1      | 44.7     | 47.4     | 50.2      | 53.1          |
| <b>32</b>          | 1   P frigorifique | (Watt) |            | 1865       | 2315       | 2788       | 3280      | 3783     | 4289     | 4793      | 5292          |
|                    | 2   P absorbée     | (W)    |            | 1388       | 1536       | 1693       | 1862      | 2045     | 2244     | 2461      | 2699          |
|                    | 3   I absorbée     | (A)    |            | 6.44       | 7.09       | 7.81       | 8.60      | 9.46     | 10.4     | 11.4      | 12.5          |
|                    | 4   Tc             | (°C)   |            | 40.5       | 42.6       | 44.8       | 47.1      | 49.5     | 52.0     | 54.6      | 57.2          |
| <b>43</b>          | 1   P frigorifique | (Watt) |            |            | 1864       | 2275       | 2691      | 3108     | 3525     | 3940      |               |
|                    | 2   P absorbée     | (W)    |            |            | 1585       | 1764       | 1953      | 2154     | 2371     | 2604      |               |
|                    | 3   I absorbée     | (A)    |            |            | 7.28       | 8.10       | 8.97      | 9.91     | 10.9     | 12.0      |               |
|                    | 4   Tc             | (°C)   |            |            | 51.3       | 53.2       | 55.1      | 57.2     | 59.3     | 61.5      |               |

1 = cooling capacity 2 = power input 3 = current 4 = condensing temperature 5 = ambient temperature 6 = evaporating temperature

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|                       |   |
|-----------------------|---|
| <b>CAJN4519ZHR-FZ</b> | <b>Tension FZ : 220 - 240V 1~ 50 Hz</b> |
|-----------------------|---|

|  |                              |
|--|------------------------------|
| Les performances sont données dans les <b>conditions EN13215</b> : | Gaz aspirés : 20.0 °C        |
| Condition Dew  | Sous refroidissement : 3.0 K |
| The performance data are in <b>EN13215 conditions</b> :            | Return gas : 20.0 °C         |
| Dew Condition  | Subcooling : 3.0 K           |

| <b>50 Hz R448A (*)</b> |                    |        |            |            |            |            |           |          |          |           |               |
|------------------------|--------------------|--------|------------|------------|------------|------------|-----------|----------|----------|-----------|---------------|
|                        |                    |        |            |            |            |            |           |          |          |           | <b>N°6943</b> |
| 5   T ambience         | 6   T évaporation  | (°C)   | <b>-25</b> | <b>-20</b> | <b>-15</b> | <b>-10</b> | <b>-5</b> | <b>0</b> | <b>5</b> | <b>10</b> | <b>15</b>     |
| <b>25</b>              | 1   P frigorifique | (Watt) | 1307       | 1727       | 2194       | 2708       | 3265      | 3862     | 4497     | 5165      | 5862          |
|                        | 2   P absorbée     | (W)    | 1100       | 1221       | 1352       | 1497       | 1657      | 1835     | 2032     | 2252      | 2498          |
|                        | 3   I absorbée     | (A)    | 5.24       | 5.73       | 6.30       | 6.95       | 7.69      | 8.52     | 9.45     | 10.5      | 11.6          |
|                        | 4   Tc             | (°C)   | 29.9       | 32.3       | 34.7       | 37.2       | 39.9      | 42.6     | 45.4     | 48.4      | 51.4          |
| <b>32</b>              | 1   P frigorifique | (Watt) |            | 1515       | 1958       | 2439       | 2957      | 3511     | 4099     | 4718      | 5367          |
|                        | 2   P absorbée     | (W)    |            | 1248       | 1391       | 1548       | 1720      | 1909     | 2118     | 2349      | 2606          |
|                        | 3   I absorbée     | (A)    |            | 5.80       | 6.43       | 7.14       | 7.94      | 8.83     | 9.81     | 10.9      | 12.1          |
|                        | 4   Tc             | (°C)   |            | 38.2       | 40.4       | 42.7       | 45.2      | 47.7     | 50.3     | 53.0      | 55.8          |
| <b>43</b>              | 1   P frigorifique | (Watt) |            |            |            | 2017       | 2475      | 2961     |          |           |               |
|                        | 2   P absorbée     | (W)    |            |            |            | 1608       | 1804      | 2016     |          |           |               |
|                        | 3   I absorbée     | (A)    |            |            |            | 7.40       | 8.30      | 9.28     |          |           |               |
|                        | 4   Tc             | (°C)   |            |            |            | 51.5       | 53.5      | 55.7     |          |           |               |

| <b>50 Hz R449A (*)</b> |                    |        |            |            |            |            |           |          |          |           |               |
|------------------------|--------------------|--------|------------|------------|------------|------------|-----------|----------|----------|-----------|---------------|
|                        |                    |        |            |            |            |            |           |          |          |           | <b>N°5620</b> |
| 5   T ambience         | 6   T évaporation  | (°C)   | <b>-25</b> | <b>-20</b> | <b>-15</b> | <b>-10</b> | <b>-5</b> | <b>0</b> | <b>5</b> | <b>10</b> | <b>15</b>     |
| <b>25</b>              | 1   P frigorifique | (Watt) | 1308       | 1728       | 2196       | 2709       | 3267      | 3865     | 4500     | 5168      | 5866          |
|                        | 2   P absorbée     | (W)    | 1100       | 1221       | 1352       | 1497       | 1657      | 1835     | 2032     | 2252      | 2498          |
|                        | 3   I absorbée     | (A)    | 5.24       | 5.73       | 6.30       | 6.95       | 7.69      | 8.52     | 9.45     | 10.5      | 11.6          |
|                        | 4   Tc             | (°C)   | 30.0       | 32.3       | 34.7       | 37.2       | 39.9      | 42.6     | 45.4     | 48.3      | 51.3          |
| <b>32</b>              | 1   P frigorifique | (Watt) |            | 1516       | 1959       | 2440       | 2959      | 3513     | 4101     | 4720      | 5370          |
|                        | 2   P absorbée     | (W)    |            | 1248       | 1391       | 1548       | 1720      | 1909     | 2118     | 2349      | 2606          |
|                        | 3   I absorbée     | (A)    |            | 5.80       | 6.43       | 7.14       | 7.94      | 8.83     | 9.81     | 10.9      | 12.1          |
|                        | 4   Tc             | (°C)   |            | 38.2       | 40.4       | 42.7       | 45.1      | 47.6     | 50.2     | 52.9      | 55.7          |
| <b>43</b>              | 1   P frigorifique | (Watt) |            |            |            | 2018       | 2476      | 2962     |          |           |               |
|                        | 2   P absorbée     | (W)    |            |            |            | 1608       | 1804      | 2016     |          |           |               |
|                        | 3   I absorbée     | (A)    |            |            |            | 7.40       | 8.30      | 9.28     |          |           |               |
|                        | 4   Tc             | (°C)   |            |            |            | 51.4       | 53.5      | 55.6     |          |           |               |

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>1 = cooling capacity 2 = power input 3 = current 4 = condensing temperature 5 = ambient temperature 6 = evaporating temperature</b>   |  |  |  |  |  |  |  |  |  |  |  |
| (*) Veuillez vous référer strictement aux Recommandations d'Utilisation et Bulletins Marketing Tecumseh du fait de la température de refoulement élevée pour les applications LBP. |  |  |  |  |  |  |  |  |  |  |  |
| (*) 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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