

# Condensing unit

## Voltage Code : TX

# FHT4544ZHR-TX

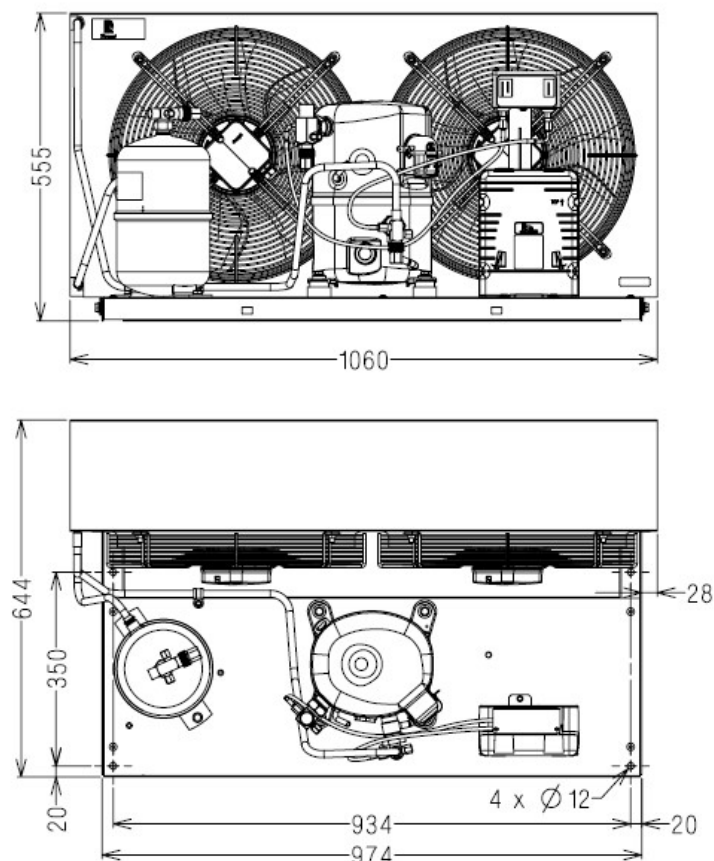
High Temp. Commercial HTA (HP)

400V 3~ 50Hz

R452A / R404A / R448A / R449A

FHT4544ZHR-TX

| Conditions      | Frequency | Nominal Cooling Capacity |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-----------------|-----------|--------------------------|-------|-------------------------------------|
|                 |           | Watts                    | BTU/h |                                     |
| EN13215 / R452A | 50 Hz     | 5986                     | 20412 | 84 dBA                              |
| EN13215 / R404A | 50 Hz     | 6608                     | 22532 | 84 dBA                              |
| EN13215 / R448A | 50 Hz     | 5694                     | 19415 | 84 dBA                              |
| EN13215 / R449A | 50 Hz     | 5688                     | 19396 | 84 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>       | 82.0             |
| <b>Expansion device</b>      | Expansion_Valve  |
| <b>Air Flow (m³/h)</b>       | 7000             |
| <b>Elec Comp Type</b>        | TRI              |
| <b>Current (Amp)</b>         |                  |
| Load Rated Amp               | 9,2              |
| Max Cont Current             | 14,5             |
| Lock Rotor Amp               | 45               |
| <b>Fan</b>                   |                  |
| Speed (rpm)                  | 1360 / 1520      |
| Power (W)                    | 280.0            |
| Diameter (mm)                | 420              |
| Protection                   | Overload         |
| IP Level                     | IP54             |
| <b>Condenser</b>             | B420P/36000      |
| <b>Liquid Receiver</b>       |                  |
| Capacity (L)                 | 6.0              |
| Maximum Pressure (Bars)      | 32.0             |
| <b>Suction Line</b>          |                  |
| Suction Type                 | Vanne Orientable |
| For Tubing Out Diam          | 22.2 (7/8")      |
| Suction Connection Type      | Brased           |
| <b>Liquid Line</b>           |                  |
| Liquid Line Type             | Vanne Orientable |
| For Tubing Out Diam          | 12.7 (1/2")      |
| Liquid Connection Type       | Brased           |
| <b>Heat recovery pipes</b>   |                  |
| Component/ Type of connexion | NA               |
| For tube Outside diameter :  | NA               |

**Fan Guard** maille < à 8mm

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

|                      |                                  |
|----------------------|----------------------------------|
| <b>FHT4544ZHR-TX</b> | <b>Tension TX : 400V 3~ 50Hz</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°7326</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>32</b>          | 1   P frigorifique | (Watt) |            | 3656       | 4778       | 5986       | 7283      | 8670     | 10141    | 11687     | 13296         |
|                    | 2   P absorbée     | (W)    |            | 2482       | 2809       | 3119       | 3420      | 3716     | 4013     | 4316      | 4630          |
|                    | 3   I absorbée     | (A)    |            | 6.62       | 7.00       | 7.37       | 7.74      | 8.12     | 8.51     | 8.91      | 9.35          |
|                    | 4   Tc             | (°C)   |            | 35.6       | 36.8       | 38.1       | 39.6      | 41.2     | 43.0     | 44.9      | 47.1          |
| <b>38</b>          | 1   P frigorifique | (Watt) |            |            | 4170       | 5296       | 6491      | 7758     | 9095     | 10499     | 11964         |
|                    | 2   P absorbée     | (W)    |            |            | 2836       | 3182       | 3515      | 3840     | 4161     | 4483      | 4813          |
|                    | 3   I absorbée     | (A)    |            |            | 7.04       | 7.46       | 7.88      | 8.29     | 8.71     | 9.15      | 9.60          |
|                    | 4   Tc             | (°C)   |            |            | 42.3       | 43.6       | 45.0      | 46.5     | 48.2     | 50.0      | 52.1          |
| <b>46</b>          | 1   P frigorifique | (Watt) |            |            | 3369       | 4386       | 5445      | 6554     | 7718     | 8942      | 10231         |
|                    | 2   P absorbée     | (W)    |            |            | 2845       | 3241       | 3619      | 3983     | 4339     | 4690      | 5042          |
|                    | 3   I absorbée     | (A)    |            |            | 7.02       | 7.52       | 8.01      | 8.48     | 8.95     | 9.43      | 9.91          |
|                    | 4   Tc             | (°C)   |            |            | 49.7       | 50.9       | 52.2      | 53.6     | 55.2     | 56.8      | 58.7          |

| <b>50 Hz R404A</b> |                    |        |            |            |            |            |           |          |          |           |               |
|--------------------|--------------------|--------|------------|------------|------------|------------|-----------|----------|----------|-----------|---------------|
|                    |                    |        |            |            |            |            |           |          |          |           | <b>N°7325</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>32</b>          | 1   P frigorifique | (Watt) | 3171       | 4223       | 5367       | 6608       | 7946      | 9377     | 10890    | 12470     | 14098         |
|                    | 2   P absorbée     | (W)    | 2287       | 2613       | 2920       | 3212       | 3493      | 3767     | 4038     | 4312      | 4593          |
|                    | 3   I absorbée     | (A)    | 6.54       | 6.89       | 7.22       | 7.56       | 7.89      | 8.23     | 8.58     | 8.94      | 9.32          |
|                    | 4   Tc             | (°C)   | 34.9       | 35.9       | 37.0       | 38.3       | 39.7      | 41.3     | 43.1     | 45.0      | 47.1          |
| <b>38</b>          | 1   P frigorifique | (Watt) |            | 3647       | 4723       | 5871       | 7093      | 8386     | 9746     | 11161     | 12620         |
|                    | 2   P absorbée     | (W)    |            | 2621       | 2963       | 3288       | 3601      | 3903     | 4201     | 4497      | 4796          |
|                    | 3   I absorbée     | (A)    |            | 6.90       | 7.29       | 7.67       | 8.04      | 8.42     | 8.80     | 9.20      | 9.60          |
|                    | 4   Tc             | (°C)   |            | 41.5       | 42.6       | 43.8       | 45.2      | 46.6     | 48.3     | 50.1      | 52.0          |
| <b>46</b>          | 1   P frigorifique | (Watt) |            |            | 3858       | 4880       | 5945      | 7057     | 8214     | 9414      | 10657         |
|                    | 2   P absorbée     | (W)    |            |            | 3005       | 3374       | 3727      | 4067     | 4399     | 4725      | 5049          |
|                    | 3   I absorbée     | (A)    |            |            | 7.33       | 7.78       | 8.21      | 8.64     | 9.07     | 9.51      | 9.95          |
|                    | 4   Tc             | (°C)   |            |            | 50.0       | 51.1       | 52.4      | 53.8     | 55.3     | 56.9      | 58.6          |

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

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|                      |                                  |
|----------------------|----------------------------------|
| <b>FHT4544ZHR-TX</b> | <b>Tension TX : 400V 3~ 50Hz</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°7328</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>32</b>              | 1   P frigorifique | (Watt) |            | 3342       | 4456       | 5694       | 7066      | 8582     | 10244    | 12049     | 13989         |
|                        | 2   P absorbée     | (W)    |            | 2369       | 2666       | 2952       | 3230      | 3503     | 3774     | 4046      | 4325          |
|                        | 3   I absorbée     | (A)    |            | 6.39       | 6.73       | 7.07       | 7.42      | 7.76     | 8.12     | 8.49      | 8.87          |
|                        | 4   Tc             | (°C)   |            | 34.5       | 35.4       | 36.5       | 37.6      | 39.0     | 40.5     | 42.3      | 44.2          |
| <b>38</b>              | 1   P frigorifique | (Watt) |            |            | 3921       | 5082       | 6359      | 7762     | 9296     | 10963     | 12756         |
|                        | 2   P absorbée     | (W)    |            |            | 2703       | 3022       | 3333      | 3638     | 3939     | 4240      | 4546          |
|                        | 3   I absorbée     | (A)    |            |            | 6.78       | 7.17       | 7.56      | 7.95     | 8.35     | 8.76      | 9.19          |
|                        | 4   Tc             | (°C)   |            |            | 41.1       | 42.1       | 43.2      | 44.5     | 45.9     | 47.6      | 49.4          |
| <b>46</b>              | 1   P frigorifique | (Watt) |            |            | 3216       | 4274       | 5423      | 6678     | 8045     | 9530      | 11134         |
|                        | 2   P absorbée     | (W)    |            |            | 2736       | 3101       | 3456      | 3803     | 4146     | 4486      | 4828          |
|                        | 3   I absorbée     | (A)    |            |            | 6.82       | 7.27       | 7.73      | 8.18     | 8.64     | 9.11      | 9.58          |
|                        | 4   Tc             | (°C)   |            |            | 48.6       | 49.6       | 50.6      | 51.8     | 53.2     | 54.7      | 56.4          |

| <b>50 Hz R449A (*)</b> |                    |        |            |            |            |            |           |          |          |           |               |
|------------------------|--------------------|--------|------------|------------|------------|------------|-----------|----------|----------|-----------|---------------|
|                        |                    |        |            |            |            |            |           |          |          |           | <b>N°7327</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>32</b>              | 1   P frigorifique | (Watt) |            | 3340       | 4453       | 5688       | 7057      | 8568     | 10223    | 12019     | 13947         |
|                        | 2   P absorbée     | (W)    |            | 2369       | 2666       | 2953       | 3232      | 3506     | 3779     | 4054      | 4336          |
|                        | 3   I absorbée     | (A)    |            | 6.39       | 6.73       | 7.07       | 7.42      | 7.77     | 8.13     | 8.50      | 8.89          |
|                        | 4   Tc             | (°C)   |            | 34.5       | 35.5       | 36.5       | 37.7      | 39.1     | 40.7     | 42.4      | 44.4          |
| <b>38</b>              | 1   P frigorifique | (Watt) |            |            | 3917       | 5075       | 6348      | 7746     | 9273     | 10930     | 12712         |
|                        | 2   P absorbée     | (W)    |            |            | 2703       | 3023       | 3335      | 3641     | 3944     | 4248      | 4556          |
|                        | 3   I absorbée     | (A)    |            |            | 6.79       | 7.17       | 7.56      | 7.96     | 8.36     | 8.77      | 9.20          |
|                        | 4   Tc             | (°C)   |            |            | 41.1       | 42.2       | 43.3      | 44.6     | 46.1     | 47.7      | 49.6          |
| <b>46</b>              | 1   P frigorifique | (Watt) |            |            | 3209       | 4264       | 5410      | 6659     | 8019     | 9495      | 11086         |
|                        | 2   P absorbée     | (W)    |            |            | 2737       | 3102       | 3458      | 3807     | 4151     | 4494      | 4838          |
|                        | 3   I absorbée     | (A)    |            |            | 6.82       | 7.27       | 7.73      | 8.19     | 8.65     | 9.12      | 9.60          |
|                        | 4   Tc             | (°C)   |            |            | 48.7       | 49.6       | 50.7      | 51.9     | 53.3     | 54.8      | 56.5          |

|                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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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