

DURACOOOL REFRIGERANTS

USE OF PRESSURE – TEMPERATURE TABLES

The pressure – temperature table shows the refrigerants in a state of **equilibrium**, the pressure of the refrigerant at any particular temperature can be found by using these tables. To use such a table, find the temperature being investigated in the vertical left – hand column. Move across the columns horizontally to find the pressure.

The temperature is always the temperature of the refrigerant. The same table may be used to determine both the condensing and evaporating temperatures and pressure. The condensing values for both temperatures and pressure are higher than the **equilibrium state**. When using this chart, keep several things in mind:

- The temperature of the refrigerant in the evaporator is about 4 degrees C to 7 degrees C (8 degrees F to 12 degrees F) colder than the evaporator, when the compressor is running.
- The temperature of the refrigerant in the evaporator is the same as the evaporator temperature when the compressor is not running.
- The temperature of the refrigerant in an air – cooled condenser is approximately 17 degrees C to 19 degrees C (30 degrees F to 35 degrees F) warmer than the ambient temperature.
- The temperature of the refrigerant in water – cooled condenser is approximately 11 degrees C (20 degrees F) warmer than the water temperature at the drain outlet.
- The temperature of the refrigerant in the condenser will be about the same as that of the cooling medium after the unit has been shut off for 15 to 30 minutes.

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