

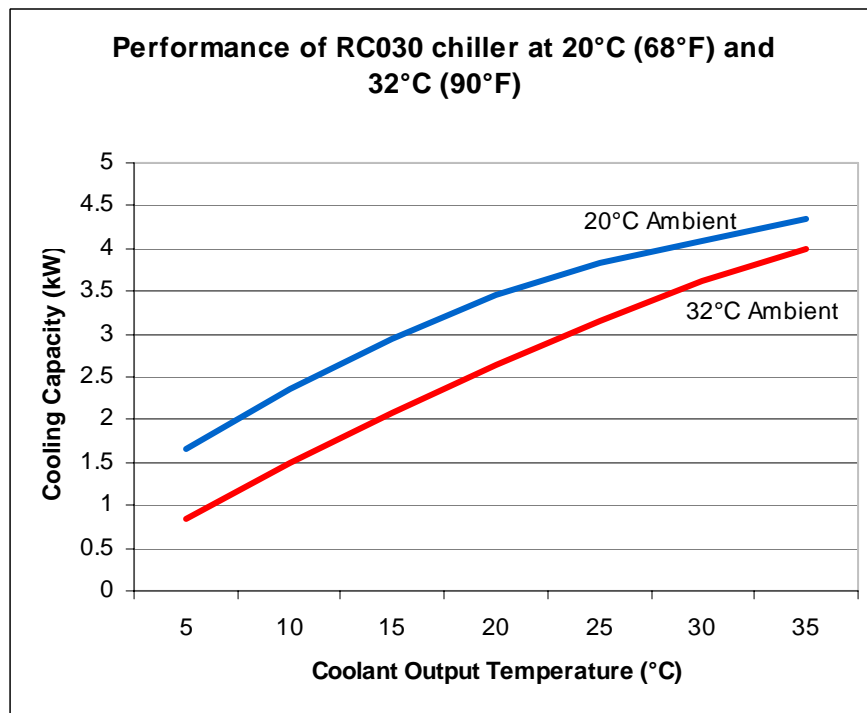


## SERVICE : Troubleshooting

### Environmental Conditions Impact Chiller Performance

The standard Kodiak Chiller performance is based on use in an environment with an ambient temperature of 20°C (the upper line on the graph). When using the chiller in conditions with a higher temperature or high humidity, cooling performance will be reduced. Below are performance curves showing the coolant output temperature (X axis) and the resulting cooling capacity (Y axis). As the required cooling increases (lower coolant temperature) the cooling capacity is reduced.

As evident in the graph below, when the ambient temperature increases to 32°C (the lower line on the graph), The thermal performance is greatly reduced. An RC030 model chiller can cool a heat load of 2.35 kW to 10°C with an ambient temperature of 20°C. At 32°C ambient temperature, the same chiller can only cool a 1.5 kW load to 10°C, a reduction of 850 Watts.



For help in selecting a chiller, try our on-line chiller product selector:  
<http://www.lytron.com/prodSelector/index.asp> and for full chiller specs, click:  
[http://www.lytron.com/standard/cs\\_kodiak\\_specs.htm](http://www.lytron.com/standard/cs_kodiak_specs.htm)