

## Chiller Capacity Derate Factors

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Calculation How to Calculate Cooling Capacity of a  
Chiller~~

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How to calculate cooling capacity of chiller

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How to size a chiller.

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How to calculate cooling capacity of chiller

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Explanation in Hindi Chiller - Controls Chiller - Cooling Capacity Control

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Chiller Capacity Derate Factors The Chiller Selector calculates the derated capacity of a chiller using a Derating Percent that applies to the rated capacity. Derating Percent = 100 - (100 - Current Derating Percent) x Rate Factor. A Rate Factor accounts for previous occurrences of the Derate Now command and is defined as.

## Chiller Capacity Derate Factors

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Referencing the example above, changing from 68°F to 95°F ambient results in a 15% derating of the

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cooling capacity. If the cooling capacity were calculated at a higher ambient temperature of 113°F, there ...

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SUBTRACT 2% (approximately) to the required nominal tonnage for every F degree above 50°F. Example: If you need an LWT of 40°F, specify a chiller that has 20% (10 X 2%) more capacity than if your LWT was 50°F. Likewise, if your LWT is higher, say 60°F, you could specify a chiller with 20% less capacity.

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If the cooling capacity were calculated at a higher ambient temperature of 113°F, there would be an additional 10% derating. Inversely, when ambient temperatures are lower, the conditions at the refrigeration condenser are more favorable. This allows for reduced head pressure and increased efficiency in the refrigeration circuit, thereby increasing the available cooling capacity.

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chilling abilities is reduced by 20%. This means the chiller with a 10 ton capacity for chilling water will have a capacity between 8 tons and 9.3 tons with 40% PG. Most American Chillers have heat exchangers large enough to handle 30% PG without loss of capacity due to our “value-added” engineering practices. We can

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Chiller Capacity Derate Factors The Chiller Selector

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