

# Chiller Capacity Derate Factors

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Glycol Correction Factors - American Chillers and Cooling ...  
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temperature increases, the cooling capacity decreases. Referencing the example above, changing from 68°F to 95°F ambient results in a 15% derating of the cooling capacity. If the cooling capacity were calculated at a higher

Chiller Cooling Capacity - How to calculate - The ...

Opti Temp chillers use their patented ARCC control (Advanced Refrigeration Capacity Control) circuitry providing for no load to full load capacity control without cycling the compressor. Most other chiller manufacturers cycle the compressor at less than 50% load, which causes increased wear on the compressor and temperature instability.

Chiller Size - HVAC/R engineering - Eng-Tips

Derating will depend on the percentage of glycol in the mixture, so there is no single number. On a drycooler when you need to keep freeze protection down to say 0 there is a much bigger derating factor than if you are trying to run a chiller with 28 degree chilled fluid.

Altitude Unit Performance Adjustment

1.8 Capacity Derate Altitude Correction Factors Altitude (ft) 1,000

2,000 3,000 4,000 5,000 6,000 Factor 0.98 0.96 0.93 0.91 0.89 0.87

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High Ambient Temperatures The chiller efficiency will be reduced by up to 5% for every 5° over 90°F ambient.

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Cooling capacity range from 30 to 480 tons and heating capacity range 450 MBH to 7,200 MBH; While in simultaneous mode, combined heating and cooling efficiencies up to 28 EER can be achieved; Manhattan Modular Chiller. Water-Cooled Chillers. Water-Cooled ...

Chiller Capacity Derate Factors

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3) Convert result into tons of chiller capacity. Divide Q (BTUs per hour) by 12,000 (the number of BTUs in one ton of cooling capacity). This yields the chiller capacity required to handle the process heat load in tons per hour: Example:  $240,000/12,000= 20$  tons/hr.

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How to Manually Calculate Chiller Capacity for Your ...

Oversize the chiller by 20% Ideal Size in Tons = Tons x 1.2; You have the ideal size for your needs; For example, what size chiller is required to cool 10 GPM from 72°F to 58°F?  $\Delta T^{\circ}F = 72^{\circ}F - 58^{\circ}F = 14^{\circ}F$ ; BTU/hr. = 10 gpm x 60 x 8.33 x 14°F = 69,972 BTU/hr. Ton Capacity = 69,972 BTU/hr. ÷ 12,000 = 5.831 Tons

Chiller Tonnage Sizing & Capacity Calculator | Cold Shot ...

Normally the Chiller tonnage is lesser than the air handlers capacity because of diversity. Suppose you have 5 Air handlers that have a total tonnage of 91 tonnes. Then with a diversity factor of let's say 0.9 your chiller should be 81 tones (diversified load). But make sure that this 90 tonnes is capacity at the ambient design temperature.

Chiller Capacity Derate Factors - wakati.co

Cooling capacity of a chiller, what we need to know. Let look at how to calculate the cooling capacity. We'll first look at how to calculate in metric units and then imperial. Metric units: The water flow rate of chilled water into the evaporator is 0.0995m<sup>3</sup>/s, the inlet temperature is 12\*c and the outlet temperature is 6\*c.

Water Chiller Sizing - What You Need to Know | Parker Hannifin

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others to start

How to Size a Chiller | BV Thermal Systems  
The desired water supply temperature also affects the cooling capacity

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of the chiller. As the water temperature increases, the cooling capacity will also increase. That means if a unit is rated 10 tons at 45/55/95 conditions, and the desired water temperature for the application is 40°F, the 10 ton unit will now only have 90% of the original rated capacity.

Chiller Capacity Derate Factors | [datacenterdynamics.com](http://datacenterdynamics.com)

Capacity Factor Pressure Drop Factor Capacity Factor Pressure Drop  
Factor Capacity Factor Pressure Drop Factor 20 - - 0.80 1.74 0.74 2.07  
30 0.92 1.39 0.87 1.63 0.82 1.94 40 0.93 1.36 0.89 1.55 0.85 1.83 45  
0.94 1.35 0.90 ... This means the chiller with a 10 ton capacity

Chillers - Trane

Total Capacity Correction Factor This factor is used to adjust the Total unit capacity (Sensible + Latent) at a given altitude. Once a rating point is selected from the cooling capacity chart based on indoor and outdoor conditions, multiply the correction factor and total capacity for the installed unit altitude. Sensible Capacity Correction Factor

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The Chiller Selector calculates the derated capacity of a chiller

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using a Derating Percent that applies to the rated capacity. Derating Percent =  $100 - (100 - \text{Current Derating Percent}) \times \text{Rate Factor}$ . A Rate Factor accounts for previous occurrences of the Derate Now command and is defined as:  $\text{Rate Factor} = \text{Current Percent Load} / 101$

Models Covered AC, AS, WC, and WS - Mokon

A chiller is an energy-saving machine that achieves refrigeration by steam compression or absorption cycles. What are the factors that affect the cooling capacity of the chiller? Let us introduce it to you. Factors affecting the cooling capacity of the chiller: 1.

Compressor power: The higher the power, the higher the cooling capacity.

Sizing Chillers | Sizing Heat Exchangers | How Much ...

Calculate tons of cooling capacity  $\text{Tons} = \text{BTU/hr.} \div 12,000$ ; Oversize the chiller by 20%  $\text{Ideal Size in Tons} = \text{Tons} \times 1.2$ ; You have the ideal size for your needs; For example, what size chiller is required to cool 40GPM from 70°F to 58°F??  $\text{T}^\circ\text{F} = 70^\circ\text{F} - 58^\circ\text{F} = 12^\circ\text{F}$ ;  $\text{BTU/hr.} = 40\text{gpm} \times 60 \times 8.33 \times 12^\circ\text{F} = 239,904 \text{ BTU/hr.}$

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