Air Conditioner Size Guide

Rules of Thumb

1 sq ft of tent needs 1 ton ac to cool:

1 person creates 750 btu heat

1 ton of AC cools 12,000 btu's of heat

Width of Tent X Length of tent = total square footage

How to calculate tons needed:

Divide Total Sq Footage by 150= tons w/o people

multiple number of guests x 750 and divide by 12,000 = tons for body heat

Add both results to estimate total tone of AC needed

Example:

300 guests in 100x100 tent

100x100 = 10,000 sq ft

10,000 sq ft / 150 = 66 tons

300 ppl x 750 = 225,000 btu's heat

225,000 / 12,000 = 18 tons

66 tons + 18 tons = 84 tons

we would recommend 4- 25 ton units