

Estimate the ventilation needed for compressor room

$$q = \frac{Q}{\rho \times C_p \times \Delta T}$$

q = Flow of the cooling air (m³/s)

Q = Heat release (kW)

ΔT = Temperature rise above that of the cooling / ambient air.

ρ = Density of the cooling / Ambient air = 1.2kg/m³

C_p = Specific heat of air = 1.005kJ/kg*K