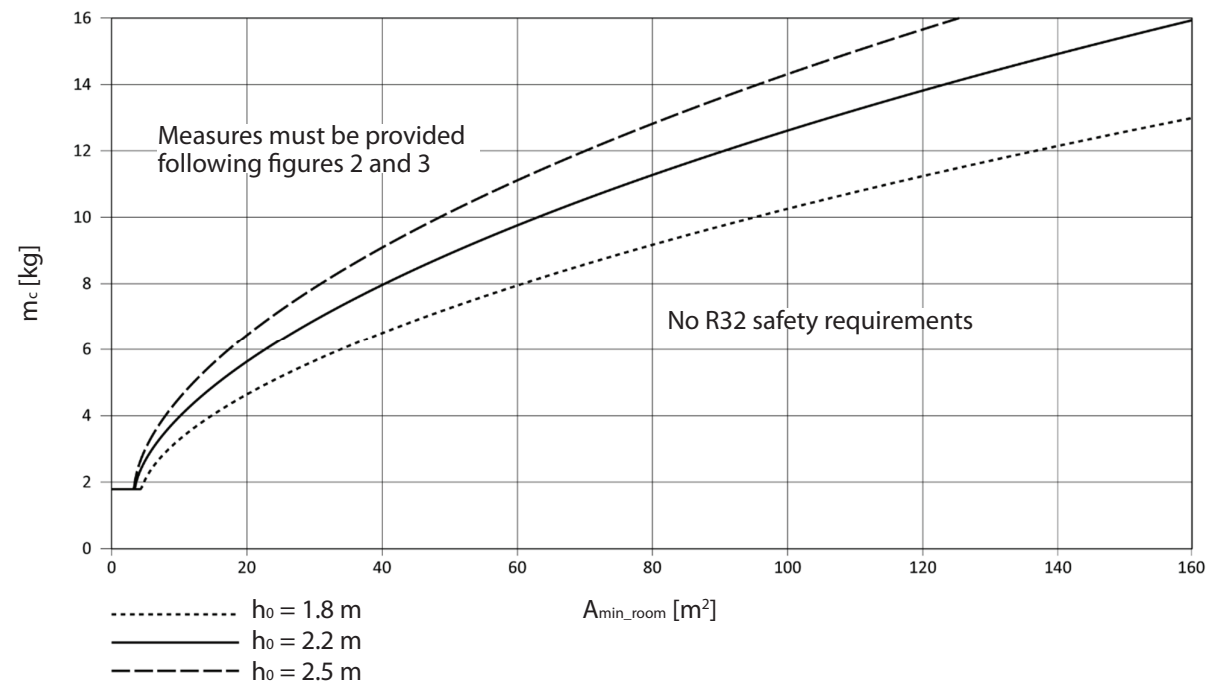


Figure 1: Requirements for spaces served by AHU (m_c ≤ 16 kg)



$$A_{min\_room} = \left(\frac{m_c}{2.5 \cdot (LFL)^{\frac{5}{4}} \cdot h_0} \right)^2, \text{ but not less than } A_{min\_room} = \frac{m_c}{50\% \cdot LFL \cdot h_0}, \text{ (valid for } m_c > 1.84 \text{ kg) (Equation 1)}$$

Symbols	Description
A _{min_room}	Required minimum room area
h ₀	Release height, which is the vertical distance in meters from the floor to the point of release
LFL	Lower flammability limit = 0.307 kg/m³ for R32
m _c	Total refrigerant charge in the system

m _c [kg]	A _{min_room} [m²] (h ₀ = 1.8 m)	A _{min_room} [m²] (h ₀ = 2.2 m)	A _{min_room} [m²] (h ₀ = 2.5 m)
2	4.9	4.0	3.5
2.5	6.1	5.0	4.4
3	8.6	6.0	5.3
3.5	11.6	7.8	6.1
4	15.2	10.2	7.9
4.5	19.2	12.9	10.0
5	23.7	15.9	12.3
2.5	28.7	19.2	14.9
6	34.1	22.8	17.7
6.5	40.0	26.8	20.8
7	46.4	31.1	24.1
7.5	53.2	35.7	27.6
8	60.6	40.6	31.4