

RECOMMENDED AIR CHANGES PER HOUR

From the CDC Guidelines for
Environmental Infection Control in Health-Care Facilities

Area designation	Minimum Air Changes Per Hour
Surgery and Critical Care	
Operating/surgical cystoscopic rooms	15 ACH
Recovery room	6 ACH
Critical and intensive care	6 ACH
Treatment room	6 ACH
ER waiting rooms	12 ACH
Triage	12 ACH
Procedure room	15 ACH
Nursing	
Patient room	6 ACH
Airborne infection isolation room	12 ACH
Labor / delivery / recovery / postpartum	6 ACH
Patient corridor	2 ACH
Service	
Food preparation center	10 ACH
Laundry, general	10 ACH
Diagnostic and Treatment	
Examination room	6 ACH
Treatment room	6 ACH
Physical therapy and hydrotherapy	6 ACH

CFM Calculation

$$[\text{Room Volume (L} \times \text{W} \times \text{H)} \times \text{ACH}] / 60 = \text{CFM Needed}$$

Ex: 20ft Long × 20ft Wide × 10ft ceiling = 4,000 ft³

$$4,000\text{ft}^3 \times 6 \text{ ACH} = 24,000$$

$$24,000 / 60 = 400 \text{ CFM}$$

RECOMMENDED AIR CHANGES PER HOUR

From the CDC Guidelines for Environmental Infection Control in Nursing Facilities

Area designation	Minimum Air Changes Per Hour
Skilled Nursing Facilities	
Resident room	2 ACH
Resident unit corridor	4 ACH
Resident gathering areas	4 ACH
Dining rooms	4 ACH
Activity rooms, if provided	4 ACH
Physical therapy	6 ACH
Occupational therapy	6 ACH
Soiled workroom or soiled holding	10 ACH
Laundry, general, if provided	10 ACH
Soiled linen sorting and storage	10 ACH
Clean linen storage	2 ACH
Food preparation facilities	10 ACH
Dietary storage areas	2 AC

CFM Calculation

[Room Volume (L×W×H) × ACH] / 60 = CFM Needed

Ex: 20ft Long × 20ft Wide × 10ft ceiling = 4,000 ft³

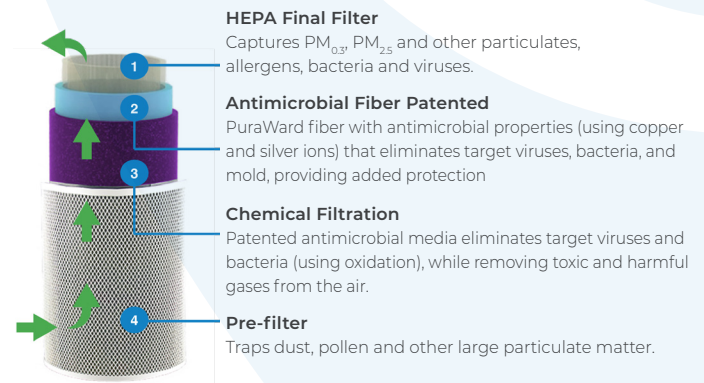
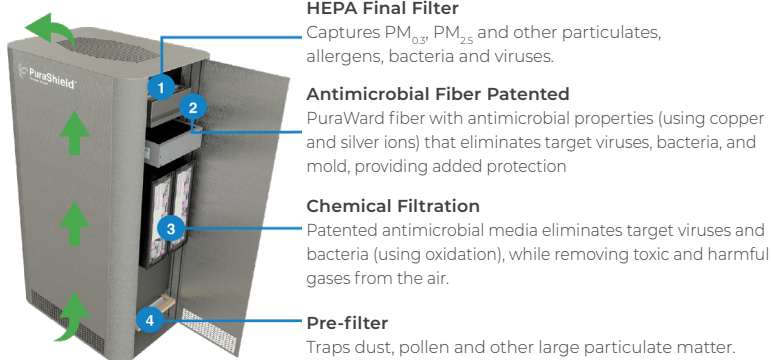
4,000ft³ × 6 ACH = 24,000

24,000 / 60 = 400 CFM

From "Guidelines for Environmental Infection Control in Health-Care Facilities (2003)"

4. Ventilation Specifications for Health-Care Facilities

<https://www.cdc.gov/infectioncontrol/guidelines/environmental/appendix/air.html>



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