



BEATING THE HEAT DURING COVID-19 – DO'S

Air cooling & Air conditioning

Uttarakhand State Disaster Management Authority
Government of Uttarakhand



Air Cooling & Air Conditioning Equipment

- Temperature setting of all AC devices to be in the range of 24-30⁰ C.
- Relative Humidity to be in the range or 40-70%.
- Recirculation of air to be avoided & intake of fresh air to be preferred.
- Cross Ventilation to be adequately ensured & replacement of air by use of exhaust fans.
- Frequent air sanitisation by regular cleaning and sanitisation of filters of indoor unit.

For areas with mild exposure & controlled environment: Residences, Standalone Workspaces/Offices

- Window fitted desert coolers.
- ACs (Window/Split)
- Fans aided by maximum fresh air intake by opening of doors/ windows & supported by air replacement through exhaust fan facilities
- Temperature & Humidity range to be maintained as per general guidelines.

For areas with Moderate Exposure & Concentration: Meeting Rooms, Dispensaries etc.

- Window fitted desert coolers
- Room ACs (Windows/Split)
- VRV/VRF systems (Indoor Units)
- Fans aided by maximum fresh air intake by opening of doors/windows supported by air replacement through exhaust fan facilities.
- Temperature & Humidity range to be maintained as per general guidelines.

For areas with Maximum Exposure & Concentration: Institutions, Malls etc.

- Window fitted desert coolers
- Room ACs/VRV/VRF systems
- Fans aided by max. fresh air intake by opening of doors/windows supported by exhaust fan facilities.
- Temperature & Humidity range to be maintained as per general guidelines
- Avoid Central AC to the extent possible, if not feasible then
 - Air handling Units to run on max fresh air as possible
 - Heat Recovery Wheels not be used as possible
 - AHUs to run 2 hrs prior & stop 2 hrs after office time

For areas with Ultimate Exposure & Concentration: Hospitals, Isolation Wards etc.

- Ensure adequate room ventilation
- For Ac rooms, ensure 12 ACPH* & Filtering of exhaust air.
- Negative pressure in isolation rooms desirable for patients requiring aerosolization procedures.
- These rooms may have standalone AC & not to be a part of central air conditioning.
- Temperature & Humidity range to be maintained as per general guidelines.
- If air conditioning is not available, negative pressure to be created through putting up 3-4 exhaust fans driving air out of the room.

Guidelines for Ceiling Fans

- Should run at low-medium speed with intake of fresh air as much as possible by keeping windows & doors opened
- Switch to window desert coolers as it doesn't work in high temperature & high humidity

Guidelines for Window Fitted Room Cooler

- Should run with intake of fresh air & arrangement of exhaust as far as possible.
- The water of the cooler & cooler pads must be disinfected at regular intervals
- To control high humidity in the rainy season exhaust fans must be used
- Switch to window fitted desert cooler supplemented with ducted air-cooling plants as it doesn't work in high humidity.
- Guidelines for prevention of Dengue to be followed.

Guidelines for Room AC (Window/Split)

- Should run with temperature setting between 24-30⁰ C
- Use with Windows partially open for fresh intake of air

Guidelines for Exhaust Fans

- Should run continuously for exhausting the hot air
- For supplementing air circulation by all types of air cooling/ conditioning devices like ceiling fan, Air cooler, Room AC, etc.

Guidelines for Ceiling Evaporative Type Air Cooling/Ducted Air Cooler

- Should run with intake of fresh air & arrangement of exhaust as far as possible.
- The water, pads of the blower section & ducts must be disinfected at regular intervals.
- Switch to window fitted cooler supplemented with duct air cooling plants it doesn't work at high humidity.
- Guidelines for prevention of Dengue to be followed.

Guidelines for VRF*/VRV*System (High wall, Cassette type Units etc.)

- Should run with temperature range of 24-30⁰ C with maximum fresh air supplemented by adequate exhaust
- Wherever this system is installed, filters of indoor units to be disinfected frequently
